

## General Information

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## Sub-miniature Fuses

|                             |           |
|-----------------------------|-----------|
| Chip 0402, 0603, 0805, 1206 | 582 - 585 |
| 2.6 x 6.1 mm (SMD)          | 586 - 587 |
| 4.5 x 8 mm (SMD)            | 588 - 589 |
| 4.5 x 16 mm (SMD)           | 590 - 591 |
| 8.4 x 7.6mm                 | 592 - 596 |
| 2.3 x 8 mm                  | 597       |

## G-Fuse Links

|                         |           |
|-------------------------|-----------|
| 5 x 20 mm               | 598 - 613 |
| 10x 51 mm               | 614       |
| 5 x 25 mm               | 615 - 617 |
| 5 x L mm                | 618       |
| 5 x 30 mm               | 619       |
| 6.3 x 32 mm             | 620 - 629 |
| 8 x 40 mm               | 630       |
| 8 x 50 mm / 8 x 85 mm 8 | 631       |
| x 120 mm / 8 x 150 mm   | 632       |

## G-Fuse Holders and Fuse Bases

633 - 643

RoHS

## General Product Information

| Article Number | Page | RoHS                                                                                | Dimensions<br>[mm] | Rated Voltage                          | Characteristics | Rated Breaking Current                 | Standard or Description                   |
|----------------|------|-------------------------------------------------------------------------------------|--------------------|----------------------------------------|-----------------|----------------------------------------|-------------------------------------------|
| 151000         | 582  |    | 1.00 x 0.5         | 32V <sub>DC</sub>                      | FF              | 50A                                    | UL 248-14                                 |
| 152000         | 583  |    | 1.55 x 0.85        | 32V <sub>DC</sub>                      | FF              | 50A                                    | UL 248-14, IEC 60127- 4                   |
| 153000         | 584  |    | 2.00 x 1.25        | 32V <sub>DC</sub>                      | FF              | 50A                                    | UL 248-14, IEC 60127- 4                   |
| 154000         | 585  |    | 3.20 x 1.6         | 63V <sub>DC</sub>                      | FF              | 50A                                    | UL 248-14, IEC 60127- 4                   |
| 157000         | 586  |    | 2.60 x 6.1         | 125V <sub>AC/DC</sub>                  | F               | 50A <sub>AC/DC</sub>                   | UL 248-14, CSA C22.s No 248.14            |
| 158000         | 587  |    |                    | 125V <sub>AC/DC</sub>                  | T               | 50A <sub>AC/DC</sub>                   | UL 248-14, CSA C22.s No 248.14            |
| 160000         | 588  |    | 4.5 x 8.0          | 250V <sub>AC</sub>                     | T               | 100A                                   | IEC 60127                                 |
| 161000         | 589  |    | 4.5 x 8.0          | 250V <sub>AC</sub>                     | F               | 100A                                   | IEC 60127-4                               |
| 160016         | 590  |    | 4.5 x 16           | 305V <sub>AC</sub>                     | T               | 1.5kA                                  | UL 248-14, IEC 60127-4/2                  |
| 163016         | 591  |    | 4.5 x 16           | 250V <sub>AC</sub>                     | TT              | 135A                                   | IEC 60127-4                               |
| 164000         | 592  |    | 8.4 x 7.6          | 250V <sub>AC</sub>                     | F               | (35A / 10xI <sub>Rat</sub> )           | IEC 60127-3/3, EN 60127-3/3, VDE 0820-3/3 |
| 164050         |      |                                                                                     |                    |                                        |                 |                                        |                                           |
| 164500         | 593  |    | 8.4 x 7.6          | 250V <sub>AC</sub>                     | F               | 50A                                    | UL 248-14, CSA C22.s No 248.14            |
| 164550         |      |                                                                                     |                    |                                        |                 |                                        |                                           |
| 165000         | 594  |    | 8.4 x 7.6          | 250V <sub>AC</sub>                     | M               | (35A / 10xI <sub>Rat</sub> )           | IEC 60127-3                               |
| 165050         |      |                                                                                     |                    |                                        |                 |                                        |                                           |
| 166000         | 595  |    | 8.4 x 7.6          | 250V <sub>AC</sub>                     | T               | (35A / 10xI <sub>Rat</sub> )           | IEC 60127-3/4, EN 60127-3/4, VDE 0820-3/4 |
| 166050         |      |                                                                                     |                    |                                        |                 |                                        |                                           |
| 166500         | 596  |    | 8.4 x 7.6          | 250V <sub>AC</sub>                     | T               | 50A                                    | UL 248-14, CSA C22.s No 248.14            |
| 166550         |      |                                                                                     |                    |                                        |                 |                                        |                                           |
| 196000         | 597  |   | 2.3 x 8            | 125V <sub>AC/DC</sub>                  | F               | 300A <sub>DC</sub> /50A <sub>AC</sub>  | UL 248-14                                 |
| 70 001 40      | 598  |  | 5 x 20             | 250V <sub>AC</sub>                     | FF              | 300kA/1.5kA                            | Special Type                              |
| 70 007 40      | 599  |  | 5 x 20             | 400V <sub>AC</sub>                     | FF              | 10kA/300kA                             | Special Type                              |
| 70 180 40      | 600  |  | 5 x 20             | 660V <sub>AC</sub>                     | aR(FF)          | 100kA <sub>AC/DC</sub>                 | Special Type                              |
| 179020         | 601  |  | 5 x 20             | 250V <sub>AC</sub>                     | F               | (35A / 10xI <sub>Rat</sub> )           | IEC 60127-2/2, EN 60127-2/2, VDE 0820-2/2 |
| 179021         | 602  |  | 5 x 20             | 250V <sub>AC</sub>                     | F               | 1.5kA/1kA                              | IEC 60127-2/1, EN 60127-2/1, VDE 0820-2/1 |
| 171100         | 603  |  | 5 x 20             | 250V <sub>AC</sub>                     | F               | 1kA/300A                               | DIN 41571-1                               |
| 172000         | 604  |  | 5 x 20             | 250V <sub>AC</sub>                     | M               | 80A                                    | DIN 41571-2                               |
| 172100         |      |                                                                                     |                    |                                        |                 | 1kA/300A                               |                                           |
| 172200         | 605  |  | 5 x 20             | 250V <sub>AC</sub>                     | M               | 1.5kA                                  | DIN 41571-2                               |
| 179120         | 606  |  | 5 x 20             | 250V <sub>AC</sub>                     | T               | (35A / 10xI <sub>Rat</sub> )           | IEC 60127-2/3, EN 60127-2/3, VDE 0820-2/3 |
| 179150         | 607  |  | 5 x 20             | 250V <sub>AC</sub>                     | T               | 150A                                   | IEC 60127-2/6, EN 60127-2/6, VDE 0820-2/6 |
| 179200         | 608  |  | 5 x 20             | 250V <sub>AC</sub> /300V <sub>DC</sub> | T               | 1.5kA <sub>AC/DC</sub>                 | IEC 60127-2/6, EN 60127-2/6, VDE 0820-2/6 |
| 179200SMD      | 609  |  | 5 x 20             | 250V <sub>AC</sub>                     | T               | 1.5kA                                  | IEC 60127-2/5, EN 60127-2/5, VDE 0820-2/5 |
| 173100         | 610  |  | 5 x 20             | 250V <sub>AC</sub>                     | T               | 300A                                   | DIN 41571-3                               |
| 179500         | 611  |  | 5 x 20             | 250V <sub>AC</sub>                     | T/D             | 35A/100A                               | UL 248-14, CSA C22.s No 248.14            |
| 190000         | 612  |  | 5 x 20             | 250V <sub>AC</sub>                     | TT              | (35A / 10xI <sub>Rat</sub> )           | Special Type                              |
| 171525         | 613  |  | 5 x 25             | 250V <sub>AC</sub>                     | F               | 50A/80A                                | Special Type                              |
| 172525         |      |                                                                                     |                    |                                        | M               |                                        |                                           |
| 7001908        | 614  |  | 10 x 51            | 60V <sub>AC</sub>                      |                 | 1.5kA                                  | DIN 41572                                 |
| 171526         | 615  |  | 5 x 25             | 250V <sub>AC</sub>                     | F               | 1.5kA                                  | DIN 41576-1                               |
| 172526         | 616  |  | 5 x 25             | 250V <sub>AC</sub>                     | M               | 80A/1.5kA                              | DIN 41576-2                               |
| 7008913        | 617  |  | 5 x 25             | 450V <sub>AC</sub> /250V <sub>DC</sub> | F               | 70kA <sub>AC</sub> /10kA <sub>DC</sub> | Lloyds Approved                           |
| 7001607        | 618  |  | 5 x 25             | 250V <sub>AC</sub>                     | M               | 80A/1.5kA                              | DIN 41577T,2                              |
| 7001707        |      |                                                                                     | 5 x 25             |                                        |                 |                                        |                                           |
| 7001407        |      |                                                                                     | 5 x 20             |                                        |                 |                                        |                                           |
| 7001205        |      |                                                                                     | 5 x 20             |                                        |                 |                                        |                                           |

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G

RoHS

## General Product Information

|         |     |  |           |                                         |        |                              |                                                    |  |
|---------|-----|--|-----------|-----------------------------------------|--------|------------------------------|----------------------------------------------------|--|
| 171530  | 619 |  | 5 x 30    | 500V <sub>AC</sub>                      | F      | 50A/80A                      | Special Type                                       |  |
| 172530  |     |  |           |                                         | M      |                              |                                                    |  |
| 7012540 | 620 |  | 6.3 x 32  | 700V <sub>AC</sub> /500V <sub>AC</sub>  | FF     | 80A/1.5kA                    | Special Type                                       |  |
| 7017240 | 621 |  | 6.3 x 32  | 1000V <sub>AC/DC</sub>                  | aR(FF) | 30kA <sub>AC/DC</sub>        | Short circuit protection only                      |  |
| 7006584 | 622 |  | 6.3 x 32  | 400V <sub>AC</sub>                      | gRL    | 120kA                        | IEC 60269-4, VDE 0636 Tail 4                       |  |
| 189000  | 623 |  | 6.3 x 32  | 250V <sub>AC</sub>                      | F      | (35A / 10xI <sub>Rat</sub> ) | IEC 60269-2/4                                      |  |
| 189020  | 624 |  | 6.3 x 32  | 500V <sub>AC</sub> /440V <sub>DC</sub>  | F      | 50kA/1.5kA                   | Special Type                                       |  |
| 7009463 | 625 |  | 6.3 x 32  | 600V <sub>AC</sub>                      | F      | 50kA                         | Special Type                                       |  |
| 189100  | 626 |  | 6.3 x 32  | 250V <sub>AC</sub>                      | T      | (35A / 10xI <sub>Rat</sub> ) | Special Type                                       |  |
| 189140  | 627 |  | 6.3 x 32  | 500V <sub>AC</sub> - 250V <sub>AC</sub> | T      | 1.5kA/10kA                   | Special Type                                       |  |
| 189500  | 628 |  | 6.3 x 32  | 250V <sub>AC</sub> /125V <sub>AC</sub>  | T/D    | 100A/10kA                    |                                                    |  |
| 7006526 | 629 |  | 6.3 x 32  | 400V <sub>DC</sub>                      | gPV    | 30kA                         | Following IEC 60269-4                              |  |
| 183000  | 630 |  | 8 x 40    | 500V <sub>AC</sub>                      | F      | 80A/1.5kA                    | DIN 41686                                          |  |
| 184000  | 631 |  | 8 x 50    | 1.2kV <sub>AC</sub>                     | M      | 35A                          | DIN 41570                                          |  |
| 7103401 |     |  | 8 x 50    | 1.2kV <sub>AC</sub>                     |        |                              | Fuse Base                                          |  |
| 185000  |     |  | 8 x 85    | 3kV <sub>AC</sub>                       | F      | 35A                          | DIN 41569                                          |  |
| 7103701 |     |  | 8 x 85    | 3kV <sub>AC</sub>                       |        |                              | Fuse Base                                          |  |
| 186000  | 632 |  | 8 x 120   | 6kV <sub>AC</sub>                       | M/F    | 35A                          | DIN 41683                                          |  |
| 7104001 |     |  | 8 x 120   | 6kV <sub>AC</sub>                       |        |                              | Fuse Base                                          |  |
| 187000  |     |  | 8 x 150   | 10kV <sub>AC</sub>                      |        | 35A                          | DIN 41684                                          |  |
| 7104301 |     |  | 8 x 150   | 10kV <sub>AC</sub>                      |        |                              | Fuse Base                                          |  |
| 7011509 | 633 |  | 10 x 85   | 3kV <sub>AC</sub>                       | F      |                              | Company                                            |  |
| 7011527 |     |  | 10 x 85   | 1.5kV <sub>AC</sub> /1kV <sub>DC</sub>  | T      |                              | Company                                            |  |
| 7011552 |     |  | 10 x 85   | 1.5kV <sub>AC</sub> /1kV <sub>DC</sub>  | F      |                              | Company                                            |  |
| 7012927 |     |  | 11 x 79   | 1kV <sub>AC</sub>                       | T      |                              | Company                                            |  |
| 7012952 |     |  | 11 x 79   | 1kV <sub>AC</sub>                       | F      |                              | Company                                            |  |
| 7017182 |     |  | 10 x 85   | 1kV <sub>AC</sub>                       | aM     |                              | Company                                            |  |
| 7002924 |     |  | 12 x 100  | 3kV <sub>AC</sub>                       | F      |                              | Company                                            |  |
| 7002927 |     |  | 12 x 100  | 3kV <sub>AC</sub>                       | T      |                              | Company                                            |  |
| 7003024 |     |  | 12 x 150  | 6kV <sub>AC</sub>                       | F      |                              | Company                                            |  |
| 7003124 |     |  | 12 x 200  | 10kV <sub>AC</sub>                      | F      |                              | Company                                            |  |
| 7103702 | 633 |  | 10 x 85   | 3kV <sub>AC</sub>                       |        |                              | Fuse Holder, 6.3A, 4W                              |  |
| 7102901 | 633 |  | 12 x 100  | 3kV <sub>AC</sub>                       |        |                              | Fuse Base, 6.3A, 4W                                |  |
| 7103001 |     |  | 12 x 150  | 6kV <sub>AC</sub>                       |        |                              | Fuse Base, 4A 4W                                   |  |
| 7103101 |     |  | 12 x 200  | 10kV <sub>AC</sub>                      |        |                              | Fuse Base, 2A 4W                                   |  |
| 166602  | 634 |  | 8.4 x 7.6 | 250V <sub>AC</sub>                      |        |                              | Fuse base PCB for 8.4 x7.6 subminiature fuse, 6.3A |  |
| 199073  | 634 |  | Ø 5mm     |                                         |        |                              | Fuse Clips PCB for Ø 5mm, 6.3A                     |  |
| 199207  |     |  |           |                                         |        |                              |                                                    |  |
| 199487  |     |  | Ø 6.3mm   |                                         |        |                              | Fuse Clips PCB for Ø 6.3mm, 10A                    |  |
| 199429  | 634 |  | 5 x 20    | 250V <sub>AC</sub> /300V <sub>DC</sub>  |        |                              | Fuse base SMD, 6.3A                                |  |
| 199011  |     |  |           |                                         |        |                              | Fuse base cover                                    |  |
| 199012  |     |  |           |                                         |        |                              |                                                    |  |
| 199015  | 635 |  | 5 x 20    | 250V <sub>AC</sub>                      |        |                              | Fuse base PCB, 6.3A                                |  |
| 199015A |     |  |           |                                         |        |                              | Fuse base cover                                    |  |
| 199016  |     |  |           |                                         |        |                              |                                                    |  |
| 199018  | 635 |  | 5 x 20    | 250V <sub>AC</sub>                      |        |                              | Fuse base PCB, 6.3a                                |  |
| 199019  |     |  |           |                                         |        |                              | Fuse base cover                                    |  |
| 199060  | 635 |  | 5 x 20    | 250V <sub>AC</sub>                      |        |                              | Fuse base PCB, 6.3a                                |  |

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RoHS

## General Product Information

|         |     |                                                                                     |             |                                        |                 |                                                            |
|---------|-----|-------------------------------------------------------------------------------------|-------------|----------------------------------------|-----------------|------------------------------------------------------------|
| 199030  | 636 |    | 5 x 20      | 250V <sub>AC</sub>                     | 6.3A            | Fuse holder panel mount, screw cap, 2.8mm plug or solder   |
| 199035  |     |    | 5 x 20      | 250V <sub>AC</sub>                     | 6.3A            | Fuse holder panel mount, screw cap, 2.8mm plug or solder   |
| 199040  |     |    | 5 x 20      | 250V <sub>AC</sub>                     | 6.3A            | Fuse holder panel mount, screw cap, 2.8mm plug or solder   |
| 199045  |     |    | 5 x 20      | 250V <sub>AC</sub>                     | 6.3A            | Fuse holder PCB vertical, bayonet cap                      |
| 199050  |     |    | 5 x 20      | 250V <sub>AC</sub>                     | 6.3A            | Fuse holder PCB horizontal, bayonet cap                    |
| 199055  | 637 |    | 5 x 20      | 250V <sub>AC</sub>                     | 6.3A            | Fuse holder panel mount, bayonet cap, solder               |
| 199070  |     |    | 5 x 20      | 250V <sub>AC</sub>                     | 6.3A            | Fuse holder panel mount, bayonet cap, 4.8mm plug or solder |
| 199090  |     |    | 5 x 20      | 250V <sub>AC</sub>                     | 6.3A VDE/10A UL | Fuse holder panel mount, bayonet cap, solder               |
| 199080  | 638 |    | 5x20/6.3x32 | 250V <sub>AC</sub>                     | 6.3A            | Fuse holder inline                                         |
| 199511  |     |    | 5x20/6.3x32 | 250V <sub>AC</sub>                     | 10A VDE/16A UL  | Fuse base SMD                                              |
| 199537  |     |    | 5x20/6.3x32 | 500V <sub>AC</sub> /250V <sub>AC</sub> | 10A VDE/16A UL  | Fuse base PCB                                              |
| 199530  | 639 |    | 6.3x32      | 500V <sub>AC</sub> /250V <sub>AC</sub> | 10A VDE/20A UL  | Fuse holder panel mount, w/o cap, 6.3mm plug or solder     |
| 199531  |     |    |             |                                        |                 | Fuse carrier bayonet cap                                   |
| 199550  | 639 |    | 6.3x32      | 500V <sub>AC</sub> /250V <sub>AC</sub> | 16A VDE/30A UL  | Fuse holder PCB mount, w/o cap                             |
| 199552  |     |    |             |                                        |                 | Fuse carrier screw cap for fuse holder                     |
| 199555  | 640 |    | 6.3x32      | 500V <sub>AC</sub> /250V <sub>AC</sub> | 16A VDE/30A UL  | Fuse holder panel mount, w/o cap, 6.3mm plug               |
| 199552  |     |    |             |                                        |                 | Fuse carrier screw cap for fuse holder                     |
| 7100127 | 640 |    | 6.3x32      | 250V <sub>AC</sub>                     | 10A VDE/16A UL  | Fuse holder PCB mount horizontal w/ bayonet carrier        |
| 7100128 | 640 |   | 6.3x32      | 250V <sub>AC</sub>                     | 10A VDE/16A UL  | Fuse holder PCB mount vertical w/ bayonet carrier          |
| 7100129 | 641 |  | 6.3x32      | 250V <sub>AC</sub>                     | 10A VDE/16A UL  | Fuse holder panel mount w/ bayonet carrier, solder         |
| 199052  | 641 |  | 6.3x32      | 250V <sub>AC</sub>                     | 10A VDE/16A UL  | Fuse holder panel mount w/ screw carrier, solder           |
| 204000  | 642 |  | Ø 5mm       |                                        | 6.3A max        | Press on lead end cap PCB, lead Ø 0.65mm                   |
| 204001  |     |  |             |                                        | 10A max         | Press on lead end cap PCB, lead Ø 0.8mm                    |
| 204002  |     |  |             |                                        | 16A max         | Press on lead end cap PCB, lead Ø 1.0mm                    |
| 204100  | 642 |  | Ø 6.3mm     |                                        | 12.5A max       | Press on lead end cap PCB, lead Ø 0.8mm                    |
| 204101  |     |  |             |                                        | 20A max         | Press on lead end cap PCB, lead Ø 1.0mm                    |
| 199022  | 642 |  | 6.3x32      | 250V <sub>AC</sub>                     | 10A max         | Fuse base PCB                                              |
| 7100114 | 643 |  | 5x20/6.3x32 | 250V <sub>AC</sub>                     | 10A VDE/16A UL  | Fuse holder PCB horizontal mount w/ bayonet                |
| 7100116 |     |                                                                                     | 5x20/6.3x32 | 250V <sub>AC</sub>                     | 10A VDE/16A UL  | Fuse holder PCB vertical mount w/o bayonet                 |
| 7100123 |     |                                                                                     | 5x20/6.3x32 | 250V <sub>AC</sub>                     | 10A VDE/10A UL  | Fuse holder panel mount w/ out carrier, solder             |
| 7100124 |     |                                                                                     | 5x20/6.3x32 | 250V <sub>AC</sub>                     | 10A VDE/20A UL  | Fuse holder panel mount w/o bayonet carrier, solder        |
| 7200108 |     |                                                                                     | 5x20        |                                        |                 | Fuse carrier bayonet for 5x20                              |
| 7200109 | 643 |  | 6.3x32      |                                        |                 | Fuse carrier bayonet for 6.3x32                            |

## Technical Notes

### 1 Introduction

Miniature fuses are automatic switchgears that protect electrical plants, appliances and modules from inadmissibly high current loads. They have various applications. Miniature fuses are used in consumer electronics for safeguarding power supplies and power output amplifiers. They are often used in industrial applications as primary fuses, where in the event of a fault they separate the defective module from the voltage supply in order to forestall any greater damage. Fuse-links for direct mounting on printed circuit boards are used among other things for the secondary current supply in low power devices. In the event of a fault they serve to protect components and PCB traces that might be destroyed by excessive current loads.

### 2 Designs

The traditional miniature fuse is cylindrical in shape, with a diameter of 5mm and a length of 20mm. There is also a design used internationally which has the dimensions 6.3 x 32mm. Depending on their rating, these fuses, whose characteristic might be very quick acting to long time-lag, can switch off short circuit currents of up to several kiloamperes at mains voltages of up to 1 000 V.

Sub-miniature fuses (KS) are used for through hole assembly on printed circuit boards. Whether their characteristic is quick acting or time-lag, these fuses with a rated voltage of 250 V are used in primary circuits for protecting mains transformers and in secondary circuits for selective protection of the modules.

SMD fuses at rated voltages of up to 250 V are available for surface mounting on printed circuit boards. Their applications are similar to those of the sub-miniature fuses (KS) described above. As regards their breaking performance, they are also designed with the special requirements of the telecom industry in mind.

### 3 Terminology

Miniature fuses consist of the fuse-link and the fuse holder. The fuse link contains the fuse-element and must, after the latter has melted, be replaced by a new fuse-link. The fuse-element can continuously carry the rated current under given conditions. When the rated current has been exceeded, the fuse-element melts above a value prescribed by the standards, and the electrical circuit is broken. The duration of the melting process is prescribed in the relevant standards.

The fuse-link is inserted into a fuse-holder. The latter consists of the fuse base (mount) and the (screw or bayonet) fuse carrier. The fuse base is firmly mounted in the device to be protected and provides the electrical connection. The fuse carrier receives the fuse link, allowing easy replacement. Open fuse holders and clips are often used besides such 'enclosed' fuse holders.

#### 3.1 Rated voltage (nominal voltage) $U_{rat}$

The rated voltage of a fuse link is given as the r.m.s. value of a sinusoidal alternating voltage at 50 Hz. All the test conditions are laid down in accordance with it. The voltage  $U_b$  driving the short circuit current must not be greater than the rated voltage.

$$U_{rat} \geq U_b$$

Operation at direct voltage is possible if the rated voltage is reduced; we will be glad to advise you on this matter if you provide us with the maximum fault current and the time constants of the fault current circuit.

#### 3.2 Rated Current $I_{rat}$

The rated current given is the r.m.s. value. Under prescribed conditions, the fuse-link can operate permanently at the rated current level. Ambient conditions, cyclic currents and special assembly conditions can lead to a de-rating of the rated current. The  $I_b$  operating current must not be greater than the rated current during normal operation.

$$I_{rat} \geq I_b$$

#### 3.3 Rated Breaking Capacity $I_1$ at $U_{rat}$

The rated breaking capacity characterizes the maximum current  $I_1$  that the fuse-link can properly switch off at the rated voltage. In certain applications it may be necessary to reduce the expected short-circuit current by means of additional impedances in the electrical circuit.

$$I_1 \geq I_p$$

### 3.4 Voltage Drop $\Delta U$

The voltage drop is determined with the fuse-link in operation at its rated current and at an ambient temperature of 23 °C.

### 3.5 Pre-arcing integral $I^2t_s$

The pre-arcing integral is calculated by integrating the square of the current over the pre-arcing time. The value indicates the electrical load that leads to the melting of the fuse-element. The value for the pre-arcing integral is determined at a test current of 10 I<sub>ra</sub> and is as a typical value.

### 3.6 Operating integral $I^2t_a$

The operating integral is calculated by integrating the square of the current over the total operating time of the fuse link. The value is a measure of the load on the downstream components during breaking operation of the fuse link in the event of a short circuit.

### 3.7 Power dissipation $P_v$

The Power dissipation of a fuse link is calculated by multiplying the conventional nonfusing current I<sub>nf</sub> by the voltage drop  $\Delta U$  determined at this load after an hour.

## 4 Structure of miniature Fuse-Links

### 4.1 The glass tube

If the maximum expected short circuit current (prospective current I<sub>p</sub>) is not greater than 35 A or max. 10 I<sub>rat</sub>, then a miniature fuse link with an unfilled glass tube is used. This fuse-link has the advantage of a relatively low voltage drop.

### 4.2 The reinforced glass tube

Miniature fuse-links with reinforced unfilled glass tubes can switch off prospective currents of up to 150 A at the rated voltage.

### 4.3 The filled glass tube

Prospective currents of up to 1 000 A can be switched off at the rated voltage by a combination of quartz sand filling as extinguish filler and reinforcement of the glass tube.

### 4.4 The filled ceramic tube

A further increase in the rated breaking capacity up to a prospective current of several kA is achieved by the use of ceramic tube filled with quartz sand.

### 4.5 The terminal caps

A copper alloy is usually used as working material for the terminal caps. The caps are plated by means of a special surface treatment to provide better electrical and thermal contact, as well as for protection against corrosion.

## 5 Characteristics

The characteristic is an expression for the time-current performance of the fuse-links.

|     |                   |                                                                                                                                                   |
|-----|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| FF  | Very quick acting | Short circuit protection for semiconductor components ( diodes, thyristors, triacs, transistors, MCT, etc.)                                       |
| gRL | Very quick acting | Full range protection of semiconductors and their supply lines                                                                                    |
| gPV |                   | For protection of photovoltaic systems                                                                                                            |
| F   | Quick acting      | Protection against high overload and short circuit currents, fuses are used in electrical circuit without inrush current pulse, or as mains fuses |
| M   | Medium time lag   | Used primarily at low operating voltages, if no high inrush currents have to be taken into account.                                               |
| T   | Time lag          | For high inrush currents have slow decaying transients(e.g. transformers).                                                                        |
| TT  | Long time lag     | For very high and long lasting inrush currents(e.g. motors)                                                                                       |

## 6 Standards

Besides several specific national standards, the principal standard applied worldwide is IEC 60127. It is divided into one general part, parts dealing with the individual fuse designs, one part for fuse holders, one specification for quality confirmation as well as one user's manual. The German-language equivalent of this International Standard is VDE 0820.

In the North American countries, the reference standard for miniature fuses is UL 248. Special care is required in converting the rated currents of IEC 60127 into those according to UL 248 (see figure 1).

## 7 Applications

### 7.1 Different definitions of the Rated Currents in the International Standards

In principle, two different ratings of the continuous current must be taken into account, preventing direct conversion of the fuse links according to IEC 60127 and UL 248-14.

- a) Continuous current rating according to IEC 60127

$$I_{rat} \geq I_b$$

- b) Continuous current rating according to UL 248-14

$$I_{rat} \geq I_b / 0,7$$

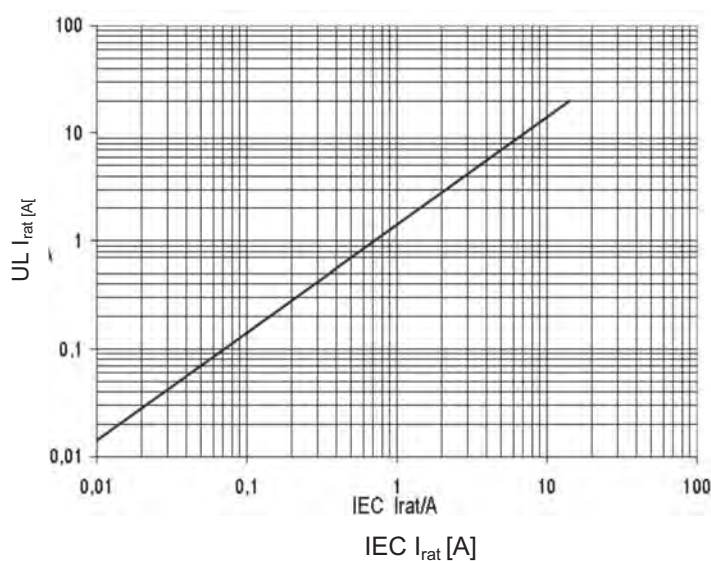


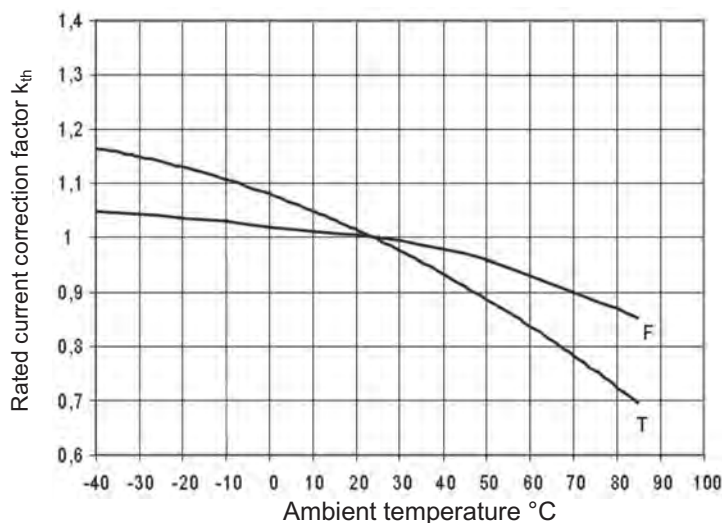
Figure 1

Figure 1 enables approximate conversion of rated current between UL and IEC standards

### 7.2 Operation at extra-Low-Voltage $U_b \ll U_{rat}$

Fuse-links can operate without difficulty at voltages below their rated voltage. The voltage drop of the fuse-links (internal resistance) must be taken into consideration, particularly at very low rated currents.

### 7.3 Operation at raised ambient temperatures



The shift in the rated current at various ambient temperatures can be determined with reference to Figure 2.

Figure 2

### 7.4 Pulse loads

If pulse loads arise in an electrical circuit to be protected, then that must be taken into consideration when assigning a fuse link, particularly the latter's pre-arcing integral  $I^2t_s$ . Reduction factors can be provided on the basis of extensive series of in house tests relating to pulse amplitude, pulse duration and frequency of occurrence.

### 7.5 Protection of semiconductor components

When protecting power electronics components, the  $I^2t$  value of the fuse-link is adjusted to the energy pulse (or  $I^2t$  value) of the component to be protected.

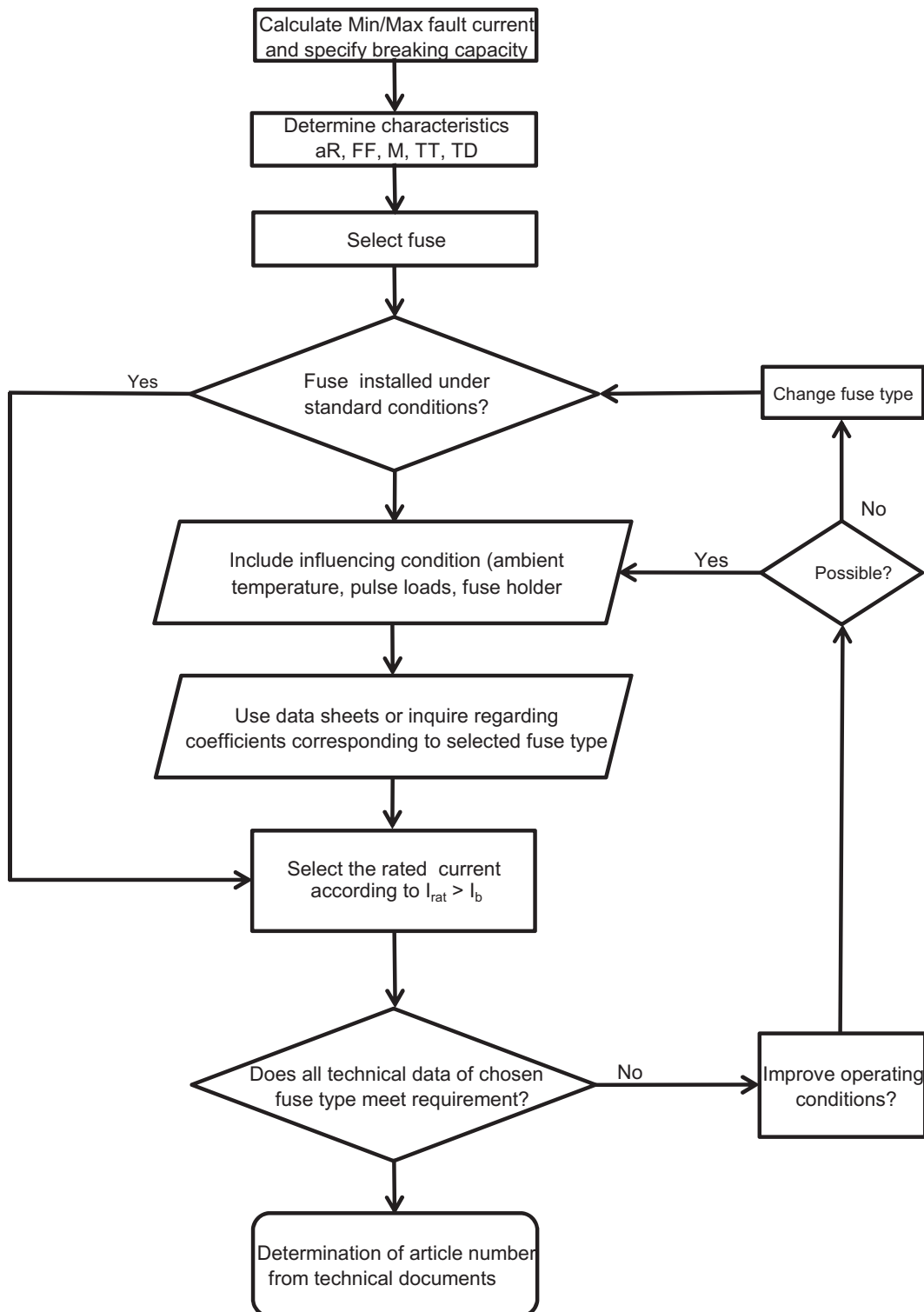
### 7.6 Power acceptance of the miniature Fuse Holder

The maximum power acceptance of the fuse holder must not be exceeded by the Power dissipation of the fuse link selected. Contact resistances and assembly conditions shall additionally be taken into account here.

## 8 Safety through Quality

In order to ensure compliance with the quality requirements, SIBA practices the documented quality management system (QM system) on the basis of the International Standard DIN EN ISO 9001. The environmental management system according to DIN EN ISO 14001 regulates the planning, implementation and supervision of environmental protection in the company.

## 9 Selection diagram



G



E167295

RoHS

Rated Voltage

[Un]

32V<sub>DC</sub>

Rated Breaking Test

Voltage

32V<sub>DC</sub>

Capacity

50A

Class

FF

Standard(s)

UL 248-14

IEC 60068-2-6

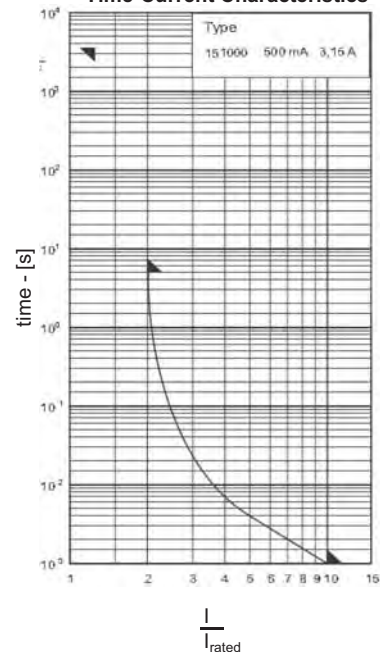
IEC 60127-4



042(1mmx0.5mm) - Ceramic Substrate -Printed Element

| Rated Current<br>$I_n$<br>[A] | Article Number | UL<br>rec | Rated Breaking<br>Current<br>[A] | Voltage<br>Drop<br>[mV] | Cold<br>Resistance<br>[mΩ] | Pre-arcing<br>$I^2t$<br>@ 10I <sub>n</sub><br>[A <sup>2</sup> s] | Approvals | Marking |
|-------------------------------|----------------|-----------|----------------------------------|-------------------------|----------------------------|------------------------------------------------------------------|-----------|---------|
| 0.500                         | 151000.0.500   | ✓         | 50A @ 32V <sub>DC</sub>          | 420                     | 640                        | 0.0009                                                           |           |         |
| 0.630                         | 151000.0.630   | ✓         | 50A @ 32V <sub>DC</sub>          | 331                     | 400                        | 0.0014                                                           |           |         |
| 0.750                         | 151000.0.750   | ✓         | 50A @ 32V <sub>DC</sub>          | 275                     | 280                        | 0.0020                                                           |           |         |
| 0.800                         | 151000.0.800   | ✓         | 50A @ 32V <sub>DC</sub>          | 231                     | 220                        | 0.0023                                                           |           |         |
| 1                             | 151000.1       | ✓         | 50A @ 32V <sub>DC</sub>          | 184                     | 140                        | 0.0028                                                           |           |         |
| 1.25                          | 151000.1.25    | ✓         | 50A @ 32V <sub>DC</sub>          | 159                     | 97                         | 0.0039                                                           |           |         |
| 1.5                           | 151000.1.5     | ✓         | 50A @ 32V <sub>DC</sub>          | 146                     | 74                         | 0.0059                                                           |           |         |
| 1.6                           | 151000.1.6     | ✓         | 50A @ 32V <sub>DC</sub>          | 136                     | 65                         | 0.0065                                                           |           |         |
| 1.75                          | 151000.1.75    | ✓         | 50A @ 32V <sub>DC</sub>          | 124                     | 54                         | 0.0077                                                           |           |         |
| 2                             | 151000.2       | ✓         | 50A @ 32V <sub>DC</sub>          | 115                     | 44                         | 0.0101                                                           |           |         |
| 2.5                           | 151000.2.5     |           | 50A @ 32V <sub>DC</sub>          | 107                     | 33                         | 0.0157                                                           |           |         |
| 3                             | 151000.3       |           | 50A @ 32V <sub>DC</sub>          | 95                      | 24                         | 0.0227                                                           |           |         |
| 3.15                          | 151000.3.15    |           | 50A @ 32V <sub>DC</sub>          | 90                      | 22                         | 0.0250                                                           |           |         |

Time-Current Characteristics



Tape reel ordering, add following suffix to article number

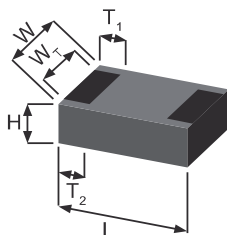
GT-1k (1 000 pieces on tape reel)

GT-5k (5 000 pieces on tape reel)

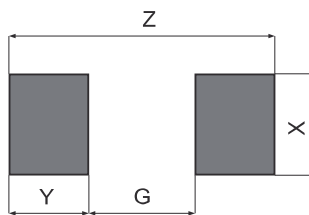
GT-10k (10 000 pieces on tape reel)

e.g. 151000.0.750GT-5k

| Rated Current | Fusing Time Limits |     |                 |     |                    |     |                 |     |                  |     |
|---------------|--------------------|-----|-----------------|-----|--------------------|-----|-----------------|-----|------------------|-----|
|               | 1.25I <sub>n</sub> |     | 2I <sub>n</sub> |     | 2.75I <sub>n</sub> |     | 4I <sub>n</sub> |     | 10I <sub>n</sub> |     |
|               | Min                | Max | Min             | Max | Min                | Max | Min             | Max | Min              | Max |
| 500mA - 3A    | 1h                 | —   | —               | 1s  | —                  | —   | —               | —   | —                | 1ms |



|                | Dimensions<br>[mm] |
|----------------|--------------------|
| H              | 0.32 ± 0.05        |
| L              | 1.0 ± 0.05         |
| W              | 0.5 ± 0.05         |
| W <sub>T</sub> | > 75% of W         |
| T <sub>1</sub> | 0.2+0.1/-0.15      |
| T <sub>2</sub> | 0.2 ± 0.1          |



| Reflow | Solder Pad<br>Dimensions<br>[mm] | wave |
|--------|----------------------------------|------|
| 0.25   | G                                |      |
| 0.55   | X                                |      |
| 0.6    | Y                                |      |
| 1.45   | Z                                |      |

Resistance to soldering heat, 260°C, 10s, solder bath  
( to IEC 60068-2 -58) 260°C, 10s, reflow

Vibration IEC - 60068-2-6

Insulation resistance - IEC 60127-4

GSS



E167295

RoHS



Rated Voltage

[Un]  
32V<sub>DC</sub>

Rated Breaking Test

Voltage  
32V<sub>DC</sub> Capacity  
50A

Class

FF



Standard(s)

UL 248-14  
IEC 60068-2-6  
IEC 60127-4

063(1.55mmx0.85mm) - Ceramic Substrate -Printed Element

| Rated Current<br>$I_n$<br>[A] | Article Number | UL<br>rec | Rated Breaking<br>Current<br>[A]     | Voltage<br>Drop<br>[mV] | Cold<br>Resistance<br>[mΩ] | Pre-arcing<br>$I^2t$<br>@ $10I_n$<br>[A <sup>2</sup> s] | Approvals<br>V - VDE | Marking |
|-------------------------------|----------------|-----------|--------------------------------------|-------------------------|----------------------------|---------------------------------------------------------|----------------------|---------|
| 0.500                         | 152000.0.500   | ✓         | 50A @ 32V <sub>DC</sub> <sup>1</sup> | 361                     | 550                        | 0.0009                                                  | V                    | F       |
| 0.630                         | 152000.0.630   | ✓         | 50A @ 32V <sub>DC</sub>              | 331                     | 400                        | 0.0014                                                  |                      | CT      |
| 0.750                         | 152000.0.750   | ✓         | 50A @ 32V <sub>DC</sub>              | 258                     | 262                        | 0.0020                                                  |                      | G       |
| 0.800                         | 152000.0.800   | ✓         | 50A @ 32V <sub>DC</sub>              | 249                     | 237                        | 0.0023                                                  |                      | CV      |
| 1                             | 152000.1       | ✓         | 50A @ 32V <sub>DC</sub> <sup>1</sup> | 223                     | 170                        | 0.0028                                                  | V                    | H       |
| 1.25                          | 152000.1.25    | ✓         | 50A @ 32V <sub>DC</sub>              | 180                     | 110                        | 0.0039                                                  |                      | J       |
| 1.5                           | 152000.1.5     | ✓         | 50A @ 32V <sub>DC</sub>              | 155                     | 79                         | 0.0059                                                  |                      | K       |
| 1.6                           | 152000.1.6     | ✓         | 50A @ 32V <sub>DC</sub> <sup>1</sup> | 159                     | 76                         | 0.0065                                                  | V                    | EF      |
| 1.75                          | 152000.1.75    | ✓         | 50A @ 32V <sub>DC</sub>              | 138                     | 60                         | 0.0077                                                  |                      | L       |
| 2                             | 152000.2       | ✓         | 50A @ 32V <sub>DC</sub> <sup>1</sup> | 150                     | 57                         | 0.0101                                                  | V                    | N       |
| 2.5                           | 152000.2.5     | ✓         | 50A @ 32V <sub>DC</sub>              | 151                     | 37                         | 0.0157                                                  |                      | O       |
| 3                             | 152000.3       | ✓         | 50A @ 32V <sub>DC</sub>              | 126                     | 32                         | 0.0227                                                  |                      | P       |
| 3.15                          | 152000.3.15    | ✓         | 50A @ 32V <sub>DC</sub> <sup>1</sup> | 120                     | 29                         | 0.0250                                                  | V                    | EL      |
| 3.5                           | 152000.3.5     | ✓         | 50A @ 32V <sub>DC</sub>              | 106                     | 23                         | 0.0308                                                  |                      | R       |
| 4                             | 152000.4       | ✓         | 50A @ 32V <sub>DC</sub>              | 100                     | 19                         | 0.0403                                                  |                      | S       |
| 5                             | 152000.5       |           | 50A @ 32V <sub>DC</sub>              | 85                      | 13                         | 0.228                                                   |                      | T       |

<sup>1)</sup> 50A @ 50V<sub>DC</sub> with VDE approval

Tape reel ordering, add following suffix to article number

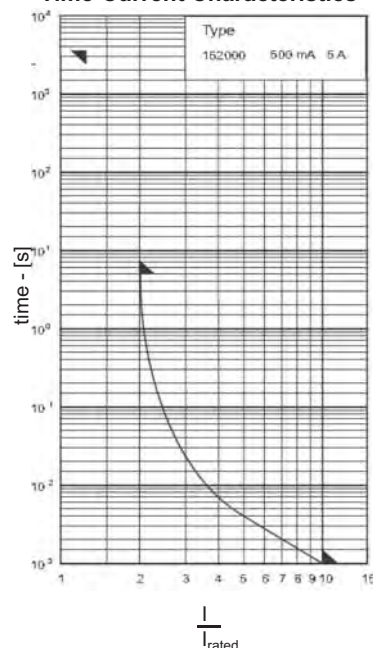
GT-1k (1 000 pieces on tape reel)

GT-5k (5 000 pieces on tape reel)

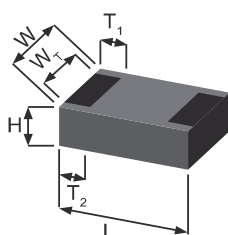
GT-20k (20 000 pieces on tape reel)

e.g. 152000.3.15GT-5k

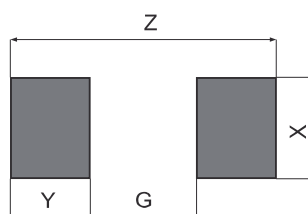
Time-Current Characteristics



| Rated Current | Fusing Time Limits |     |                 |     |                    |     |                 |     |                  |     |
|---------------|--------------------|-----|-----------------|-----|--------------------|-----|-----------------|-----|------------------|-----|
|               | 1.25I <sub>n</sub> |     | 2I <sub>n</sub> |     | 2.75I <sub>n</sub> |     | 4I <sub>n</sub> |     | 10I <sub>n</sub> |     |
|               | Min                | Max | Min             | Max | Min                | Max | Min             | Max | Min              | Max |
| 500mA - 3A    | 1h                 | —   | —               | 5s  | —                  | —   | —               | —   | —                | 1ms |



|                | Dimensions<br>[mm] |
|----------------|--------------------|
| H              | 0.45+01/-0.05      |
| L              | 1.55 ± 0.05        |
| W              | 0.85 ± 0.1         |
| W <sub>T</sub> | > 75% of W         |
| T <sub>1</sub> | 0.3+0.15/-0.2      |
| T <sub>2</sub> | 0.3+0.15/-0.2      |



| Reflow | Solder Pad<br>Dimensions<br>[mm] | wave |
|--------|----------------------------------|------|
| 0.5    | G                                | 0.5  |
| 0.95   | X                                | 1.1  |
| 0.95   | Y                                | 1.2  |
| 2.4    | Z                                | 2.9  |

Resistance to soldering heat, 260°C, 10s, solder bath  
(to IEC 60068-2 -58) 260°C, 10s, reflow

Vibration IEC - 60068-2-6

Insulation resistance - IEC 60127-4

SIBA LLC

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www.siba-fuses.us

G



E167295

RoHS

Rated Voltage

[Un]  
32V<sub>DC</sub>

Rated Breaking Test

Voltage  
32V<sub>DC</sub> Capacity  
50A

Class

FF

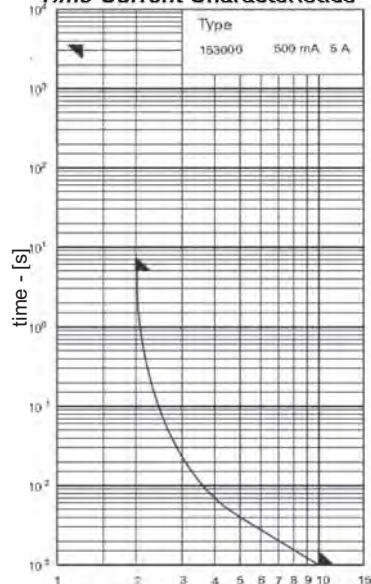
Standard(s)

UL 248-14  
IEC 60068-2-6  
IEC 60127-4

085(2mmx1.25mm) - Ceramic Substrate -Printed Element

| Rated Current<br>$I_n$<br>[A] | Article Number | UL<br>rec | Rated Breaking<br>Current<br>[A] | Voltage<br>Drop<br>[mV] | Cold<br>Resistance<br>[mΩ] | Pre-arcing<br>$I^2t$<br>@ $10I_n$<br>[A <sup>2</sup> s] | Approvals | Marking |
|-------------------------------|----------------|-----------|----------------------------------|-------------------------|----------------------------|---------------------------------------------------------|-----------|---------|
| 0.500                         | 153000.0.500   | ✓         | 50A @ 32V <sub>DC</sub>          | 374                     | 570                        | 0.0009                                                  |           | F       |
| 0.630                         | 153000.0.630   | ✓         | 50A @ 32V <sub>DC</sub>          | 347                     | 420                        | 0.0014                                                  |           | CT      |
| 0.750                         | 153000.0.750   | ✓         | 50A @ 32V <sub>DC</sub>          | 280                     | 285                        | 0.0020                                                  |           | G       |
| 0.800                         | 153000.0.800   | ✓         | 50A @ 32V <sub>DC</sub>          | 262                     | 250                        | 0.0023                                                  |           | CV      |
| 1                             | 153000.1       | ✓         | 50A @ 32V <sub>DC</sub>          | 243                     | 185                        | 0.0028                                                  |           | H       |
| 1.25                          | 153000.1.25    | ✓         | 50A @ 32V <sub>DC</sub>          | 205                     | 125                        | 0.0039                                                  |           | J       |
| 1.5                           | 153000.1.5     | ✓         | 50A @ 32V <sub>DC</sub>          | 171                     | 87                         | 0.0059                                                  |           | K       |
| 1.6                           | 153000.1.6     | ✓         | 50A @ 32V <sub>DC</sub>          | 164                     | 78                         | 0.0065                                                  |           | EF      |
| 1.75                          | 153000.1.75    | ✓         | 50A @ 32V <sub>DC</sub>          | 161                     | 70                         | 0.0077                                                  |           | L       |
| 2                             | 153000.2       | ✓         | 50A @ 32V <sub>DC</sub>          | 176                     | 67                         | 0.0101                                                  |           | N       |
| 2.5                           | 153000.2.5     | ✓         | 50A @ 32V <sub>DC</sub>          | 131                     | 40                         | 0.0157                                                  |           | O       |
| 3                             | 153000.3       | ✓         | 50A @ 32V <sub>DC</sub>          | 134                     | 34                         | 0.0227                                                  |           | P       |
| 3.15                          | 153000.3.15    | ✓         | 50A @ 32V <sub>DC</sub>          | 128                     | 31                         | 0.0250                                                  |           | EL      |
| 3.5                           | 153000.3.5     | ✓         | 50A @ 32V <sub>DC</sub>          | 119                     | 26                         | 0.0308                                                  |           | R       |
| 4                             | 153000.4       | ✓         | 50A @ 32V <sub>DC</sub>          | 105                     | 20                         | 0.0403                                                  |           | S       |
| 5                             | 153000.5       |           | 50A @ 32V <sub>DC</sub>          | 98                      | 15                         | 0.228                                                   |           | T       |

Time-Current Characteristics



Tape reel ordering, add following suffix to article number

GT-1k (1 000 pieces on tape reel)

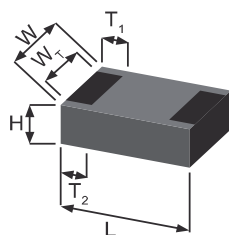
GT-5k (5 000 pieces on tape reel)

GT-20k (20 000 pieces on tape reel)

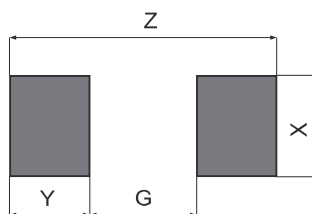
e.g. 153000.1.750GT-5k

$$\frac{I}{I_{rated}}$$

| Rated Current | Fusing Time Limits |     |                 |     |                    |     |                 |     |                  |     |
|---------------|--------------------|-----|-----------------|-----|--------------------|-----|-----------------|-----|------------------|-----|
|               | 1.25I <sub>n</sub> |     | 2I <sub>n</sub> |     | 2.75I <sub>n</sub> |     | 4I <sub>n</sub> |     | 10I <sub>n</sub> |     |
|               | Min                | Max | Min             | Max | Min                | Max | Min             | Max | Min              | Max |
| 500mA - 3A    | 1h                 | —   | —               | 5s  | —                  | —   | —               | —   | —                | 1ms |



|                | Dimensions<br>[mm] |
|----------------|--------------------|
| H              | 0.45+0.1/-0.05     |
| L              | 2.0 ± 0.1          |
| W              | 1.25 ± 0.15        |
| W <sub>T</sub> | > 75% of W         |
| T <sub>1</sub> | 0.4+0.1/-0.2       |
| T <sub>2</sub> | 0.4+0.1/-0.2       |



| Reflow | Solder Pad<br>Dimensions<br>[mm] | wave |
|--------|----------------------------------|------|
| 0.65   | G                                | 0.65 |
| 1.4    | X                                | 1.5  |
| 1.1    | Y                                | 1.4  |
| 2.85   | Z                                | 3.45 |

Resistance to soldering heat, 260°C, 10s, solder bath  
( to IEC 60068-2 -58) 260°C, 10s, reflow

Vibration IEC - 60068-2-6

Insulation resistance - IEC 60127-4

SIBA LLC

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West Caldwell, New Jersey 07006e-mail: info@sibafuse.com  
www.siba-fuses.us

G



E167295



Rated Voltage

[Un]  
32V<sub>DC</sub>

Rated Breaking Test

Voltage  
32V<sub>DC</sub> Capacity  
50A

Class

FF

Standard(s)

UL 248-14  
IEC 60068-2-6  
IEC 60127-4

1206(3.2mmx1.6mm) - Ceramic Substrate -Printed Element

| Rated Current<br>$I_n$<br>[A] | Article Number | UL<br>rec | Rated Breaking<br>Current<br>[A]     | Voltage<br>Drop<br>[mV] | Cold<br>Resistance<br>[mΩ] | Pre-arcing<br>$I^2t$<br>@ $10I_n$<br>[A <sup>2</sup> s] | Approvals<br>V - VDE | Marking |
|-------------------------------|----------------|-----------|--------------------------------------|-------------------------|----------------------------|---------------------------------------------------------|----------------------|---------|
| 0.250                         | 154000.0.250   | *         | 1                                    | 310                     | 880                        | 0.0001                                                  |                      |         |
| 0.375                         | 154000.0.375   | *         | 1                                    | 260                     | 470                        | 0.0004                                                  |                      |         |
| 0.500                         | 154000.0.500   | ✓         | 50A @ 63V <sub>DC</sub> <sup>2</sup> | 433                     | 660                        | 0.0009                                                  | V                    | F       |
| 0.630                         | 154000.0.630   | ✓         | 50A @ 63V <sub>DC</sub>              | 372                     | 450                        | 0.0014                                                  |                      | CT      |
| 0.750                         | 154000.0.750   | ✓         | 50A @ 63V <sub>DC</sub>              | 325                     | 330                        | 0.0022                                                  |                      | G       |
| 0.800                         | 154000.0.800   | ✓         | 50A @ 63V <sub>DC</sub>              | 273                     | 260                        | 0.0023                                                  |                      | CV      |
| 1                             | 154000.1       | ✓         | 50A @ 63V <sub>DC</sub> <sup>2</sup> | 262                     | 200                        | 0.0028                                                  | V                    | H       |
| 1.25                          | 154000.1.25    | ✓         | 50A @ 63V <sub>DC</sub>              | 230                     | 140                        | 0.0041                                                  |                      | J       |
| 1.5                           | 154000.1.5     | ✓         | 50A @ 63V <sub>DC</sub>              | 207                     | 105                        | 0.0059                                                  |                      | K       |
| 1.6                           | 154000.1.6     | ✓         | 50A @ 63V <sub>DC</sub> <sup>2</sup> | 168                     | 80                         | 0.0066                                                  | V                    | EF      |
| 1.75                          | 154000.1.75    | ✓         | 50A @ 63V <sub>DC</sub>              | 174                     | 76                         | 0.0077                                                  |                      | L       |
| 2                             | 154000.2       | ✓         | 50A @ 63V <sub>DC</sub> <sup>2</sup> | 181                     | 69                         | 0.0102                                                  | V                    | N       |
| 2.5                           | 154000.2.5     | ✓         | 50A @ 63V <sub>DC</sub>              | 161                     | 49                         | 0.0159                                                  |                      | O       |
| 3                             | 154000.3       | ✓         | 50A @ 63V <sub>DC</sub>              | 173                     | 44                         | 0.0229                                                  |                      | P       |
| 3.15                          | 154000.3.15    | ✓         | 50A @ 63V <sub>DC</sub> <sup>2</sup> | 153                     | 37                         | 0.0251                                                  | V                    | EL      |
| 3.5                           | 154000.3.5     | ✓         | 50A @ 63V <sub>DC</sub>              | 161                     | 35                         | 0.0310                                                  |                      | R       |
| 4                             | 154000.4       | ✓         | 50A @ 63V <sub>DC</sub>              | 147                     | 28                         | 0.0404                                                  |                      | S       |
| 5                             | 152000.5       |           | 50A @ 63V <sub>DC</sub>              | 131                     | 20                         | 0.228                                                   |                      | T       |
| 6.3                           | 154000.6.3     |           | 50A @ 63V <sub>DC</sub>              | 116                     | 14                         | 0.516                                                   |                      | ET      |

\* UL listed

<sup>1)</sup> 50A @ 63V<sub>DC</sub>, 100A @ 125V<sub>AC</sub><sup>2)</sup> 50A @ 50V<sub>DC</sub> with VDE approval

Tape reel ordering, add following suffix to article number

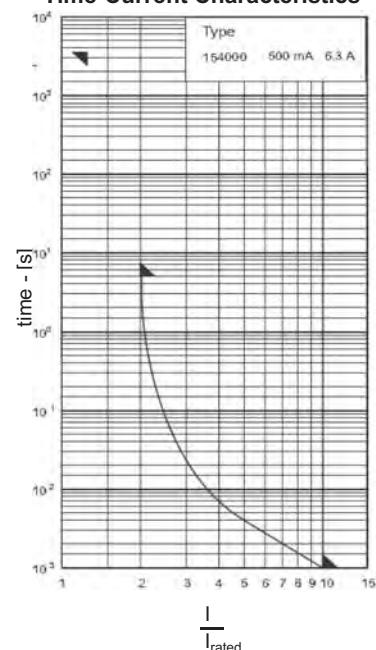
GT-1k (1 000 pieces on tape reel)

GT-5k (5 000 pieces on tape reel)

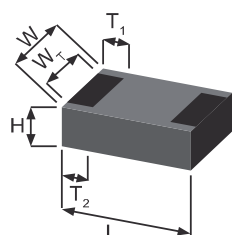
GT-20k (20 000 pieces on tape reel)

e.g. 154000.6.3GT-5k

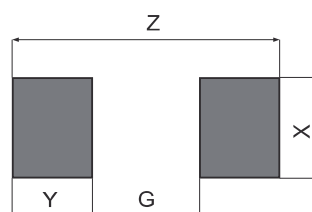
Time-Current Characteristics



| Rated Current | Fusing Time Limits |     |                    |     |                 |     |                 |       |                  |     |
|---------------|--------------------|-----|--------------------|-----|-----------------|-----|-----------------|-------|------------------|-----|
|               | 1I <sub>n</sub>    |     | 1.25I <sub>n</sub> |     | 2I <sub>n</sub> |     | 3I <sub>n</sub> |       | 10I <sub>n</sub> |     |
|               | Min                | Max | Min                | Max | Min             | Max | Min             | Max   | Min              | Max |
| 250mA - 375mA | 1h                 | —   | —                  | —   | —               | 5s  | —               | 200ms | —                | —   |
| 500mA - 5A    | 1h                 | —   | —                  | —   | —               | 5s  | —               | —     | —                | 1ms |



|                | Dimensions<br>[mm] |
|----------------|--------------------|
| H              | 0.55 ± 0.1         |
| L              | 3.2+0.1/-0.2       |
| W              | 1.6 ± 0.15         |
| W <sub>T</sub> | > 75% of W         |
| T <sub>1</sub> | 0.5 ± 0.25         |
| T <sub>2</sub> | 0.3 ± 0.25         |



| Reflow | Solder Pad<br>Dimensions<br>[mm] | wave |
|--------|----------------------------------|------|
| 1.5    | G                                | 1.5  |
| 1.75   | X                                | 1.9  |
| 1.25   | Y                                | 1.6  |
| 4.0    | Z                                | 4.7  |

Resistance to soldering heat, 260°C, 10s, solder bath  
(to IEC 60068-2 -58) 260°C, 10s, reflow

Vibration IEC - 60068-2-6

Insulation resistance - IEC 60127-4

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GSS



RoHS

Rated Voltage

[Un]

125/65V<sub>AC/DC</sub>

Rated Breaking Test

Voltage

125V<sub>AC/DC</sub>

Capacity

50A

65V<sub>AC/DC</sub>

50A

Class

F

Standard(s)

UL 248-14

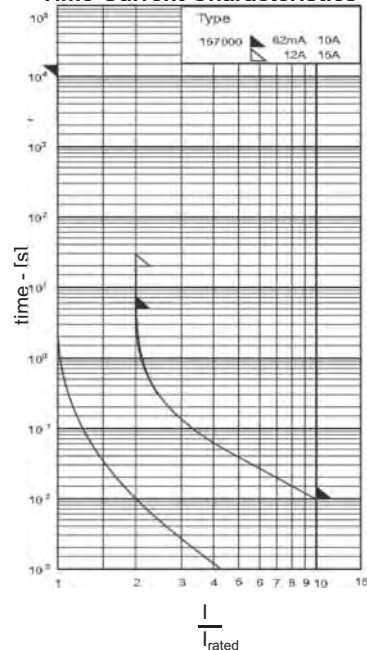
CSA C22.s -

No 248.14

2.6mmx6.1mm - Ceramic Body - Contacts, Brass - Silver Plated

| Rated Current<br>$I_n$<br>[A] | Article Number | UL<br>rec | Rated Breaking<br>Current<br>[A] | Voltage<br>Drop<br>[mV] | Cold<br>Resistance<br>[mΩ] | Pre-arcing<br>$I^2t$<br>@ $10I_n$<br>[A <sup>2</sup> s] | Approvals | Marking |
|-------------------------------|----------------|-----------|----------------------------------|-------------------------|----------------------------|---------------------------------------------------------|-----------|---------|
| 0.062                         | 157000.0.062   | ✓         | 50A @ 125V <sub>AC/DC</sub>      | 600                     | 5 500                      | 0.00019                                                 |           |         |
| 0.080                         | 157000.0.080   | ✓         | 50A @ 125V <sub>AC/DC</sub>      | 550                     | 4 050                      | 0.00033                                                 |           |         |
| 0.100                         | 157000.0.100   | ✓         | 50A @ 125V <sub>AC/DC</sub>      | 350                     | 2 000                      | 0.0014                                                  |           |         |
| 0.125                         | 157000.0.125   | ✓         | 50A @ 125V <sub>AC/DC</sub>      | 240                     | 1 500                      | 0.0028                                                  |           |         |
| 0.160                         | 157000.0.160   | ✓         | 50A @ 125V <sub>AC/DC</sub>      | 350                     | 1 400                      | 0.0031                                                  |           |         |
| 0.200                         | 157000.0.200   | ✓         | 50A @ 125V <sub>AC/DC</sub>      | 250                     | 800                        | 0.0066                                                  |           |         |
| 0.250                         | 157000.0.250   | ✓         | 50A @ 125V <sub>AC/DC</sub>      | 230                     | 600                        | 0.011                                                   |           |         |
| 0.315                         | 157000.0.315   | ✓         | 50A @ 125V <sub>AC/DC</sub>      | 210                     | 420                        | 0.023                                                   |           |         |
| 0.375                         | 157000.0.375   | ✓         | 50A @ 125V <sub>AC/DC</sub>      | 180                     | 300                        | 0.043                                                   |           |         |
| 0.400                         | 157000.0.400   | ✓         | 50A @ 125V <sub>AC/DC</sub>      | 180                     | 290                        | 0.048                                                   |           |         |
| 0.500                         | 157000.0.500   | ✓         | 50A @ 125V <sub>AC/DC</sub>      | 180                     | 230                        | 0.073                                                   |           |         |
| 0.630                         | 157000.0.630   | ✓         | 50A @ 125V <sub>AC/DC</sub>      | 180                     | 190                        | 0.12                                                    |           |         |
| 0.750                         | 157000.0.750   | ✓         | 50A @ 125V <sub>AC/DC</sub>      | 170                     | 160                        | 0.18                                                    |           |         |
| 0.800                         | 157000.0.800   | ✓         | 50A @ 125V <sub>AC/DC</sub>      | 160                     | 130                        | 0.26                                                    |           |         |
| 1                             | 157000.1       | ✓         | 50A @ 125V <sub>AC/DC</sub>      | 150                     | 100                        | 0.45                                                    |           |         |
| 1.25                          | 157000.1.25    | ✓         | 50A @ 125V <sub>AC/DC</sub>      | 150                     | 78                         | 0.68                                                    |           |         |
| 1.5                           | 157000.1.5     | ✓         | 50A @ 125V <sub>AC/DC</sub>      | 150                     | 63                         | 0.85                                                    |           |         |
| 1.6                           | 157000.1.6     | ✓         | 50A @ 125V <sub>AC/DC</sub>      | 140                     | 58                         | 1.05                                                    |           |         |
| 2                             | 157000.2       | ✓         | 50A @ 125V <sub>AC/DC</sub>      | 100                     | 37                         | 0.57                                                    |           |         |
| 2.5                           | 157000.2.5     | ✓         | 50A @ 125V <sub>AC/DC</sub>      | 100                     | 28                         | 1.1                                                     |           |         |
| 3                             | 157000.3       | ✓         | 50A @ 125V <sub>AC/DC</sub>      | 100                     | 23                         | 1.5                                                     |           |         |
| 3.15                          | 157000.3.15    | ✓         | 50A @ 125V <sub>AC/DC</sub>      | 100                     | 21                         | 1.9                                                     |           |         |
| 3.5                           | 157000.3.5     | ✓         | 50A @ 125V <sub>AC/DC</sub>      | 100                     | 19                         | 2.5                                                     |           |         |
| 4                             | 157000.4       | ✓         | 50A @ 125V <sub>AC/DC</sub>      | 100                     | 16                         | 3.3                                                     |           |         |
| 5                             | 157000.5       | ✓         | 50A @ 125V <sub>AC/DC</sub>      | 90                      | 12.5                       | 6.2                                                     |           |         |
| 6.3                           | 157000.6.3     | ✓         | 50A @ 125V <sub>AC/DC</sub>      | 90                      | 10                         | 9.1                                                     |           |         |
| 7                             | 157000.7       | ✓         | 50A @ 125V <sub>AC/DC</sub>      | 90                      | 8.6                        | 11                                                      |           |         |
| 10                            | 157000.10      | ✓         | 50A @ 125V <sub>AC/DC</sub>      | 90                      | 5.9                        | 27                                                      |           |         |
| 12                            | 157000.12      | ✓         | 50A @ 125V <sub>AC/DC</sub>      | 90                      | 4.9                        | 45                                                      |           |         |
| 15                            | 157000.15      | ✓         | 50A @ 125V <sub>AC/DC</sub>      | 90                      | 3.8                        | 81                                                      |           |         |

Time-Current Characteristics



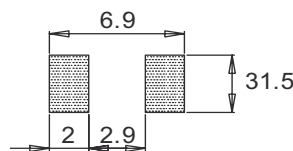
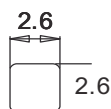
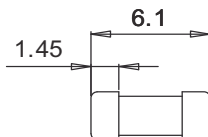
Tape reel ordering, add following suffix to article number

GT - (1 000 pieces on tape reel)

e.g. 157000.3.15GT

Dimensions

[mm]



| Rated Current | Fusing Time Limits |     |        |     |           |     |        |     |         |      |
|---------------|--------------------|-----|--------|-----|-----------|-----|--------|-----|---------|------|
|               | $1I_n$             |     | $2I_n$ |     | $2.75I_n$ |     | $4I_n$ |     | $10I_n$ |      |
|               | Min                | Max | Min    | Max | Min       | Max | Min    | Max | Min     | Max  |
| 62mA - 10A    | 4h                 | —   | —      | 5s  | —         | 5s  | —      | —   | —       | 10ms |
| 12A - 15A     | 4h                 | —   | —      | 20s | —         | 5s  | —      | —   | —       | 10ms |

Resistance to soldering heat, 260°C, 10s, to IEC 60068

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G



RoHS

Rated Voltage

[Un]  
125V<sub>AC/DC</sub>

Rated Breaking Test

Voltage Capacity  
125V<sub>AC/DC</sub> 50A

Class

T

Standard(s)

UL 248-14  
CSA C22.s -  
No 248.14

2.6mmx6.1mm - Ceramic Body - Contacts, Brass - Silver Plated

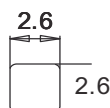
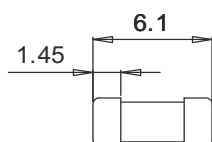
| Rated Current<br>$I_n$<br>[A] | Article Number | UL<br>rec | Rated Breaking<br>Current<br>[A]          | Voltage<br>Drop<br>[mV] | Cold<br>Resistance<br>[mΩ] | Pre-arcing<br>$I^2t$<br>@ $10I_n$<br>[A <sup>2</sup> s] | Approvals | Marking |
|-------------------------------|----------------|-----------|-------------------------------------------|-------------------------|----------------------------|---------------------------------------------------------|-----------|---------|
| 0.250                         | 158000.0.250   | ✓         | 50A @ 125V <sub>AC/DC</sub>               | 280                     | 900                        | 0.08                                                    |           |         |
| 0.315                         | 158000.0.315   | ✓         | 50A @ 125V <sub>AC/DC</sub>               | 260                     | 700                        | 0.016                                                   |           |         |
| 0.375                         | 158000.0.375   | ✓         | 50A @ 125V <sub>AC/DC</sub> <sup>1)</sup> | 230                     | 500                        | 0.035                                                   |           |         |
| 0.400                         | 158000.0.400   | ✓         | 50A @ 125V <sub>AC/DC</sub> <sup>1)</sup> | 220                     | 450                        | 0.035                                                   |           |         |
| 0.500                         | 158000.0.500   | ✓         | 50A @ 125V <sub>AC/DC</sub> <sup>1)</sup> | 200                     | 300                        | 1.0                                                     |           |         |
| 0.630                         | 158000.0.630   | ✓         | 50A @ 125V <sub>AC/DC</sub> <sup>1)</sup> | 200                     | 200                        | 1.4                                                     |           |         |
| 0.750                         | 158000.0.750   | ✓         | 50A @ 125V <sub>AC/DC</sub> <sup>1)</sup> | 190                     | 170                        | 1.5                                                     |           |         |
| 0.800                         | 158000.0.800   | ✓         | 50A @ 125V <sub>AC/DC</sub> <sup>1)</sup> | 170                     | 140                        | 1.5                                                     |           |         |
| 1                             | 158000.1       | ✓         | 50A @ 125V <sub>AC/DC</sub> <sup>1)</sup> | 150                     | 120                        | 4.0                                                     |           |         |
| 1.25                          | 158000.1.25    | ✓         | 50A @ 125V <sub>AC/DC</sub> <sup>1)</sup> | 150                     | 90                         | 4.6                                                     |           |         |
| 1.5                           | 158000.1.5     | ✓         | 50A @ 125V <sub>AC/DC</sub> <sup>1)</sup> | 130                     | 60                         | 4.8                                                     |           |         |
| 1.6                           | 158000.1.6     | ✓         | 50A @ 125V <sub>AC/DC</sub> <sup>1)</sup> | 130                     | 55                         | 4.8                                                     |           |         |
| 2                             | 158000.2       | ✓         | 50A @ 125V <sub>AC/DC</sub> <sup>1)</sup> | 120                     | 45                         | 8.6                                                     |           |         |
| 2.5                           | 158000.2.5     | ✓         | 50A @ 125V <sub>AC/DC</sub> <sup>1)</sup> | 120                     | 30                         | 16                                                      |           |         |
| 3                             | 158000.3       | ✓         | 50A @ 125V <sub>AC/DC</sub> <sup>1)</sup> | 110                     | 23                         | 24                                                      |           |         |
| 3.15                          | 158000.3.15    | ✓         | 50A @ 125V <sub>AC/DC</sub> <sup>1)</sup> | 100                     | 20                         | 24                                                      |           |         |
| 3.5                           | 158000.3.5     | ✓         | 50A @ 125V <sub>AC/DC</sub> <sup>1)</sup> | 100                     | 18                         | 38                                                      |           |         |
| 4                             | 158000.4       | ✓         | 50A @ 125V <sub>AC/DC</sub> <sup>1)</sup> | 100                     | 15                         | 44                                                      |           |         |
| 5                             | 158000.5       | ✓         | 50A @ 125V <sub>AC/DC</sub> <sup>1)</sup> | 90                      | 11                         | 77                                                      |           |         |
| 6.3                           | 158000.6.3     | ✓         | 50A @ 125V <sub>AC/DC</sub> <sup>1)</sup> | 80                      | 8                          | 130                                                     |           |         |
| 7                             | 158000.7       |           | 50A @ 125V <sub>AC/DC</sub>               | 90                      | 8                          | 130                                                     |           |         |

<sup>1)</sup> 50A @ 125V<sub>AC</sub> and 50A with UL recognition

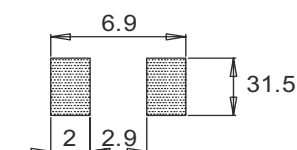
Tape reel ordering, add following suffix to article number

GT - (1 000 pieces on tape reel)

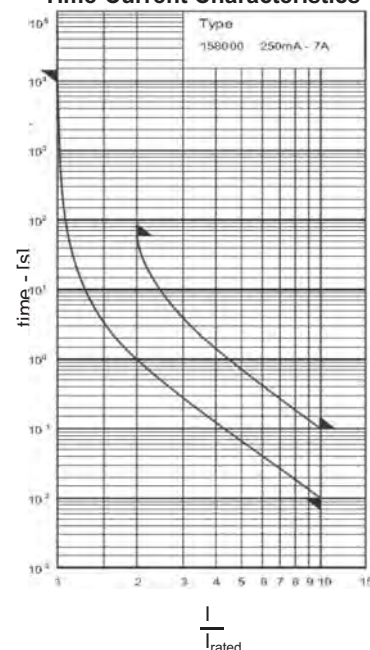
e.g. 158000.2.5GT

Dimensions  
[mm]

Recommended Pad Layout



Time-Current Characteristics



| Rated Current | Fusing Time Limits |     |        |     |           |     |        |     |         |       |
|---------------|--------------------|-----|--------|-----|-----------|-----|--------|-----|---------|-------|
|               | $1I_n$             |     | $2I_n$ |     | $2.75I_n$ |     | $4I_n$ |     | $10I_n$ |       |
|               | Min                | Max | Min    | Max | Min       | Max | Min    | Max | Min     | Max   |
| 250mA - 7A    | 4h                 | —   | —      | 60s | —         | 5s  | —      | —   | 10ms    | 100ms |

Resistance to soldering heat, 260°C, 10s, to IEC 60068

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G



RoHS

Rated Voltage

[Un]

250V<sub>AC</sub>

Rated Breaking Test

Voltage

250V<sub>AC</sub>

Capacity

100A

Class

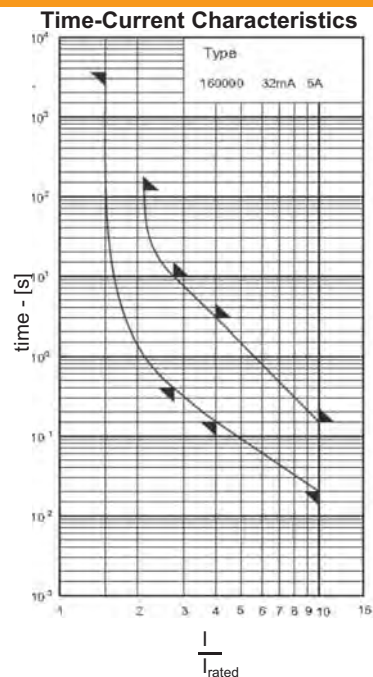
T

Standard(s)

IEC 60127

4.5mmx8mm - Ceramic Tube- Contacts, Brass - Silver Plated

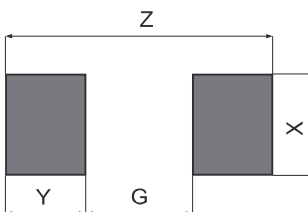
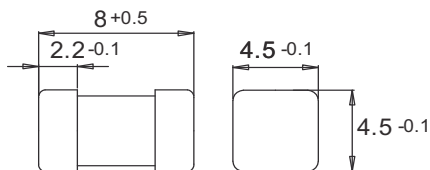
| Rated Current<br>$I_n$<br>[A] | Article Number | UL<br>rec | Rated Breaking<br>Current<br>[A] | Voltage<br>Drop<br>[mV] | Power<br>Dissipation<br>@ 1.5I <sub>n</sub><br>[mW] | Pre-arcing<br>I <sup>2</sup> t<br>@ 10I <sub>n</sub><br>[A <sup>2</sup> s] | Approvals | Marking |
|-------------------------------|----------------|-----------|----------------------------------|-------------------------|-----------------------------------------------------|----------------------------------------------------------------------------|-----------|---------|
| 0.032                         | 160000.0.032   | ✓         | 100A @ 250V <sub>AC</sub>        | 1 150                   | 125                                                 | 0.014                                                                      |           |         |
| 0.040                         | 160000.0.040   | ✓         | 100A @ 250V <sub>AC</sub>        | 860                     | 150                                                 | 0.013                                                                      |           |         |
| 0.050                         | 160000.0.050   | ✓         | 100A @ 250V <sub>AC</sub>        | 800                     | 155                                                 | 0.013                                                                      |           |         |
| 0.063                         | 160000.0.063   | ✓         | 100A @ 250V <sub>AC</sub>        | 580                     | 160                                                 | 0.020                                                                      |           |         |
| 0.080                         | 160000.0.080   | ✓         | 100A @ 250V <sub>AC</sub>        | 480                     | 150                                                 | 0.035                                                                      |           |         |
| 0.100                         | 160000.0.100   | ✓         | 100A @ 250V <sub>AC</sub>        | 350                     | 155                                                 | 0.06                                                                       |           |         |
| 0.125                         | 160000.0.125   | ✓         | 100A @ 250V <sub>AC</sub>        | 300                     | 160                                                 | 0.12                                                                       |           |         |
| 0.160                         | 160000.0.160   | ✓         | 100A @ 250V <sub>AC</sub>        | 280                     | 190                                                 | 0.21                                                                       |           |         |
| 0.200                         | 160000.0.200   | ✓         | 100A @ 250V <sub>AC</sub>        | 260                     | 200                                                 | 0.32                                                                       |           |         |
| 0.250                         | 160000.0.250   | ✓         | 100A @ 250V <sub>AC</sub>        | 240                     | 220                                                 | 0.5                                                                        |           |         |
| 0.315                         | 160000.0.315   | ✓         | 100A @ 250V <sub>AC</sub>        | 220                     | 250                                                 | 0.8                                                                        |           |         |
| 0.400                         | 160000.0.400   | ✓         | 100A @ 250V <sub>AC</sub>        | 200                     | 280                                                 | 1.1                                                                        |           |         |
| 0.500                         | 160000.0.500   | ✓         | 100A @ 250V <sub>AC</sub>        | 190                     | 310                                                 | 1.8                                                                        |           |         |
| 0.630                         | 160000.0.630   | ✓         | 100A @ 250V <sub>AC</sub>        | 180                     | 360                                                 | 3.2                                                                        |           |         |
| 0.800                         | 160000.0.800   | ✓         | 100A @ 250V <sub>AC</sub>        | 160                     | 430                                                 | 5.2                                                                        |           |         |
| 1                             | 160000.1       | ✓         | 100A @ 250V <sub>AC</sub>        | 140                     | 500                                                 | 6.8                                                                        |           |         |
| 1.25                          | 160000.1.25    | ✓         | 100A @ 250V <sub>AC</sub>        | 130                     | 600                                                 | 12                                                                         |           |         |
| 1.6                           | 160000.1.6     | ✓         | 100A @ 250V <sub>AC</sub>        | 120                     | 730                                                 | 22                                                                         |           |         |
| 2                             | 160000.2       | ✓         | 100A @ 250V <sub>AC</sub>        | 100                     | 870                                                 | 30                                                                         |           |         |
| 2.5                           | 160000.2.5     | ✓         | 100A @ 250V <sub>AC</sub>        | 100                     | 1 000                                               | 46                                                                         |           |         |
| 3.15                          | 160000.3.15    | ✓         | 100A @ 250V <sub>AC</sub>        | 100                     | 1 200                                               | 80                                                                         |           |         |
| 4                             | 160000.4       | ✓         | 100A @ 250V <sub>AC</sub>        | 100                     | 1 400                                               | 130                                                                        |           |         |
| 5                             | 160000.5       | ✓         | 100A @ 250V <sub>AC</sub>        | 100                     | 1 700                                               | 130                                                                        |           |         |

IEC 32mA - 250mA, 100A @ 125V<sub>DC</sub>IEC 315mA - 5A, 100A @ 60V<sub>DC</sub>

Tape reel ordering, add following suffix to article number

GT - (500 pieces on tape reel)

e.g. 160000.0.5GT

Dimensions  
[mm]

| Reflow | Solder Pad<br>Dimensions<br>[mm] | wave |
|--------|----------------------------------|------|
| 3.6    | G                                | 3.6  |
| 5.6    | X                                | 6.8  |
| 2.7    | Y                                | 4.2  |
| 9.0    | Z                                | 12.0 |



| Rated Current | Fusing Time Limits |     |                 |     |                    |      |                 |     |                  |       |
|---------------|--------------------|-----|-----------------|-----|--------------------|------|-----------------|-----|------------------|-------|
|               | 1I <sub>n</sub>    |     | 2I <sub>n</sub> |     | 2.75I <sub>n</sub> |      | 4I <sub>n</sub> |     | 10I <sub>n</sub> |       |
|               | Min                | Max | Min             | Max | Min                | Max  | Min             | Max | Min              | Max   |
| 32mA - 5A     | 1h                 | —   | —               | 2m  | 400ms              | 10ms | 150ms           | 3s  | 20ms             | 150ms |

Resistance to soldering heat, 260°C, 10s, solder bath  
(to IEC 60068-2 -58)

SIBA LLC

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**G** **RoHS** **Rated Voltage** **[Un]** **250V<sub>AC</sub>** **Rated Breaking Test** **Voltage** **250V<sub>AC</sub>** **Capacity** **100A** **Class** **F** **Standard(s)** **IEC 60127-4**

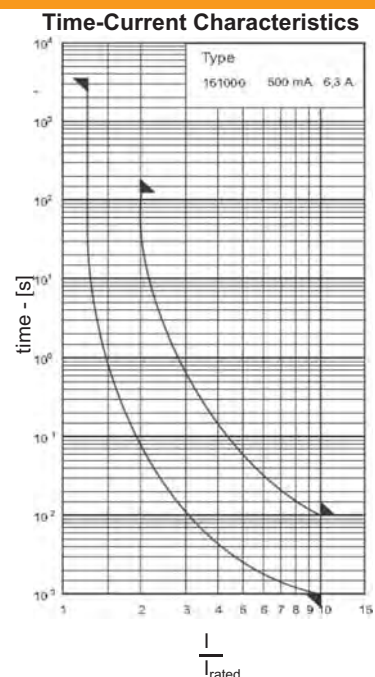
4.5mmx8mm - Ceramic Tube w/Filler Contacts- Brass - Silver Plated

| Rated Current<br>$I_n$<br>[A] | Article Number | Rated Breaking Current<br>[A] | Voltage Drop<br>[mV] | Power Dissipation<br>@ $1.25I_n$<br>[mW] | Pre-arcing<br>$I^2t$<br>[A <sup>2</sup> s] | Approvals | Marking |
|-------------------------------|----------------|-------------------------------|----------------------|------------------------------------------|--------------------------------------------|-----------|---------|
| 0.500                         | 161000.0.500   | 100A @ 250V <sub>AC</sub>     | 200                  | 300                                      | 0.076                                      |           |         |
| 0.630                         | 161000.0.630   | 100A @ 250V <sub>AC</sub>     | 180                  | 300                                      | 0.19                                       |           |         |
| 0.800                         | 161000.0.800   | 100A @ 250V <sub>AC</sub>     | 160                  | 300                                      | 0.38                                       |           |         |
| 1                             | 161000.1       | 100A @ 250V <sub>AC</sub>     | 140                  | 300                                      | 0.71                                       |           |         |
| 1.25                          | 161000.1.25    | 100A @ 250V <sub>AC</sub>     | 140                  | 400                                      | 0.94                                       |           |         |
| 1.6                           | 161000.1.6     | 100A @ 250V <sub>AC</sub>     | 120                  | 400                                      | 0.56                                       |           |         |
| 2                             | 161000.2       | 100A @ 250V <sub>AC</sub>     | 110                  | 500                                      | 1.1                                        |           |         |
| 2.5                           | 161000.2.5     | 100A @ 250V <sub>AC</sub>     | 100                  | 600                                      | 2.0                                        |           |         |
| 3.15                          | 161000.3.15    | 100A @ 250V <sub>AC</sub>     | 100                  | 700                                      | 3.2                                        |           |         |
| 4                             | 161000.4       | 100A @ 250V <sub>AC</sub>     | 100                  | 900                                      | 5.0                                        |           |         |
| 5                             | 161000.5       | 100A @ 250V <sub>AC</sub>     | 100                  | 1 000                                    | 9.0                                        |           |         |
| 6.3                           | 161000.6.3     | 100A @ 250V <sub>AC</sub>     | 100                  | 1 400                                    | 13                                         |           |         |

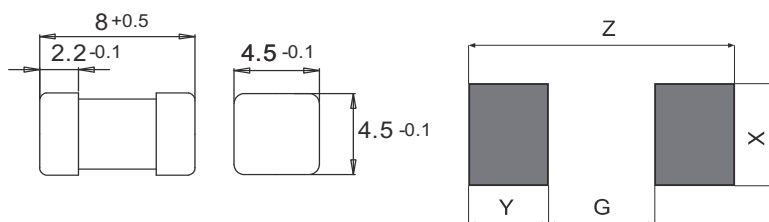
Tape reel ordering, add following suffix to article number

GT - (500 pieces on tape reel)

e.g. 161000.1.6GT



Dimensions  
[mm]



| Reflow | Solder Pad Dimensions<br>[mm] | wave |
|--------|-------------------------------|------|
| 3.6    | G                             | 3.6  |
| 5.6    | X                             | 6.8  |
| 2.7    | Y                             | 4.2  |
| 9.0    | Z                             | 12.0 |

| Rated Current | Fusing Time Limits |     |                 |      |                    |     |                 |     |                  |     |
|---------------|--------------------|-----|-----------------|------|--------------------|-----|-----------------|-----|------------------|-----|
|               | 1.25I <sub>n</sub> |     | 2I <sub>n</sub> |      | 2.75I <sub>n</sub> |     | 4I <sub>n</sub> |     | 10I <sub>n</sub> |     |
|               | Min                | Max | Min             | Max  | Min                | Max | Min             | Max | Min              | Max |
| 500mA - 6.3A  | 1h                 | —   | —               | 120s | —                  | —   | —               | —   | 1ms              | 0ms |

Resistance to soldering heat, 260°C, 10s, solder bath  
( to IEC 60068-2 -58)

G



Rated Voltage

[Un]

250V<sub>AC</sub>

Rated Breaking Test

Voltage

250V<sub>AC</sub>

Capacity

100A

Class

T

Standard(s)

UL 248-14

IEC 60127-4/2

4.5mmx16mm - Ceramic Tube w/filling, Contacts - Copper Alloy - Silver Plated

| Rated Current<br>$I_n$<br>[A] | Article Number | UL<br>rec | Rated Breaking<br>Current<br>[A]        | Voltage<br>Drop<br>[mV] | Power<br>Dissipation<br>@ 1.25 $I_n$<br>[mW] | Pre-arcing<br>$I^2t$<br>@ 10 $I_n$<br>[A <sup>2</sup> s] | Approvals<br>S - Semko | Marking |
|-------------------------------|----------------|-----------|-----------------------------------------|-------------------------|----------------------------------------------|----------------------------------------------------------|------------------------|---------|
| 0.050                         | 160016.0.050   | ✓         | Data on request                         |                         |                                              |                                                          |                        |         |
| 0.080                         | 160016.0.080   | ✓         | 1.5kA @ 305V <sub>AC</sub> <sup>1</sup> | 2 050                   | 270                                          | 0.025                                                    | S                      |         |
| 0.100                         | 160016.0.100   | ✓         | 1.5kA @ 305V <sub>AC</sub> <sup>1</sup> | 1 750                   | 290                                          | 0.030                                                    | S                      |         |
| 0.125                         | 160016.0.125   | ✓         | 1.5kA @ 305V <sub>AC</sub> <sup>1</sup> | 1 430                   | 310                                          | 0.055                                                    | S                      |         |
| 0.160                         | 160016.0.160   | ✓         | 1.5kA @ 305V <sub>AC</sub> <sup>1</sup> | 1 220                   | 340                                          | 0.065                                                    | S                      |         |
| 0.200                         | 160016.0.200   | ✓         | 1.5kA @ 305V <sub>AC</sub> <sup>1</sup> | 960                     | 350                                          | 0.11                                                     | S                      |         |
| 0.250                         | 160016.0.250   | ✓         | 1.5kA @ 305V <sub>AC</sub> <sup>1</sup> | 840                     | 360                                          | 0.19                                                     | S                      |         |
| 0.315                         | 160016.0.315   | ✓         | 1.5kA @ 305V <sub>AC</sub> <sup>1</sup> | 700                     | 380                                          | 0.34                                                     | S                      |         |
| 0.400                         | 160016.0.400   | ✓         | 1.5kA @ 305V <sub>AC</sub> <sup>1</sup> | 570                     | 400                                          | 0.54                                                     | S                      |         |
| 0.500                         | 160016.0.500   | ✓         | 1.5kA @ 305V <sub>AC</sub> <sup>1</sup> | 490                     | 430                                          | 0.86                                                     | S                      |         |
| 0.630                         | 160016.0.630   | ✓         | 1.5kA @ 305V <sub>AC</sub> <sup>1</sup> | 410                     | 460                                          | 1.5                                                      | S                      |         |
| 0.800                         | 160016.0.800   | ✓         | 1.5kA @ 305V <sub>AC</sub> <sup>1</sup> | 350                     | 490                                          | 2.6                                                      | S                      |         |
| 1                             | 160016.1       | ✓         | 1.5kA @ 305V <sub>AC</sub> <sup>1</sup> | 380                     | 640                                          | 4.5                                                      | S                      |         |
| 1.25                          | 160016.1.25    | ✓         | 1.5kA @ 305V <sub>AC</sub> <sup>1</sup> | 340                     | 790                                          | 4.1                                                      | S                      |         |
| 1.6                           | 160016.1.6     | ✓         | 1.5kA @ 305V <sub>AC</sub> <sup>1</sup> | 330                     | 970                                          | 6.2                                                      | S                      |         |
| 2                             | 160016.2       | ✓         | 1.5kA @ 305V <sub>AC</sub> <sup>1</sup> | 280                     | 1 060                                        | 13                                                       | S                      |         |
| 2.5                           | 160016.2.5     | ✓         | 1.5kA @ 305V <sub>AC</sub> <sup>1</sup> | 240                     | 1 120                                        | 21                                                       | S                      |         |
| 3.15                          | 160016.3.15    | ✓         | 1.5kA @ 305V <sub>AC</sub> <sup>1</sup> | 200                     | 1 200                                        | 35                                                       | S                      |         |
| 4                             | 160016.4       | ✓         | 1.5kA @ 305V <sub>AC</sub> <sup>1</sup> | 160                     | 1 250                                        | 49                                                       | S                      |         |
| 5                             | 160016.5       | ✓         | 1.5kA @ 277V <sub>AC</sub> <sup>1</sup> | 140                     | 1 300                                        | 92                                                       | S                      |         |
| 6.3                           | 160016.6.3     | ✓         | 1.5kA @ 277V <sub>AC</sub> <sup>1</sup> | 120                     | 1 370                                        | 170                                                      | S                      |         |
| 8                             | 160016.8       | ✓         | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 90                      | 1 250                                        | 160                                                      | S                      |         |
| 10                            | 160016.10      | ✓         | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 80                      | 1 500                                        | 280                                                      | S                      |         |

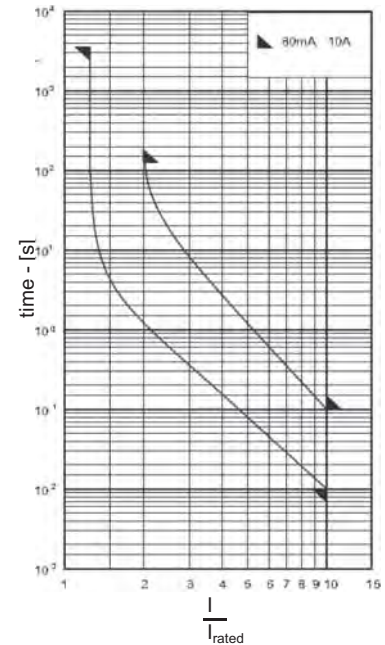
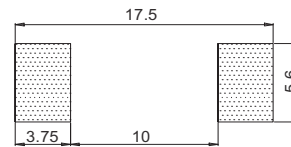
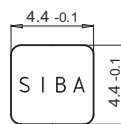
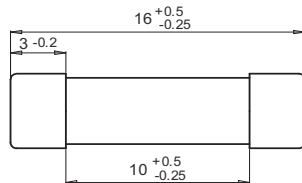
<sup>1)</sup> 1.5kA @ 250V<sub>DC</sub>

Tape reel ordering, add following suffix to article number

GT - (1 500 pieces on tape reel)

e.g. 160016.1.25GT

Time-Current Characteristics

Dimensions  
[mm]

Recommended Pad Layout

| Rated Current | Fusing Time Limits |     |         |     |            |     |         |     |          |       |
|---------------|--------------------|-----|---------|-----|------------|-----|---------|-----|----------|-------|
|               | 1.25 $I_n$         |     | 2 $I_n$ |     | 2.75 $I_n$ |     | 4 $I_n$ |     | 10 $I_n$ |       |
|               | Min                | Max | Min     | Max | Min        | Max | Min     | Max | Min      | Max   |
| 250mA - 7A    | 1h                 | —   | 2m      | —   | —          | 5s  | —       | —   | 10ms     | 100ms |

Resistance to soldering heat, 260°C, 10s, to IEC 60068

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| G                                                                           | Rated Voltage<br>[Un]<br>250V <sub>AC</sub> | Rated Breaking Test<br>Voltage<br>250V <sub>AC</sub> | Capacity<br>35A | Class<br>TT | Standard(s)<br>IEC 60127-4 |
|-----------------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------|-----------------|-------------|----------------------------|
| <div> </div>                                                                |                                             |                                                      |                 |             |                            |
| 4.5mmx16mm - Ceramic Tube w/Filler, Contacts - Copper Alloy - Silver Plated |                                             |                                                      |                 |             |                            |

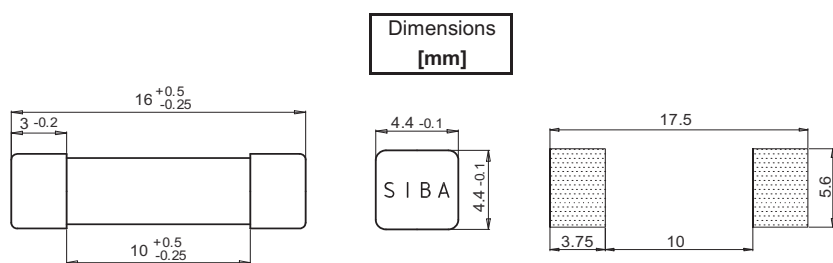
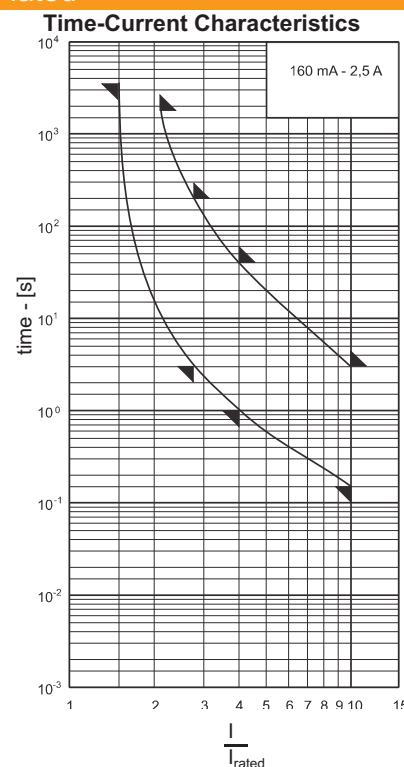
| Rated Current<br>$I_n$<br>[A] | Article Number | Rated Breaking Current<br>[A] | Voltage Drop<br>[mV] | Power Dissipation<br>@ $1.5I_n$<br>[mW] | Pre-arcing<br>$I^2t$<br>@ $10I_n$<br>[A <sup>2</sup> s] | Approvals | Marking |
|-------------------------------|----------------|-------------------------------|----------------------|-----------------------------------------|---------------------------------------------------------|-----------|---------|
| 0.160                         | 163016.0.160   | 35A @ 250V <sub>AC</sub>      | *                    | *                                       | *                                                       |           |         |
| 0.200                         | 163016.0.200   | 35A @ 250V <sub>AC</sub>      | *                    | *                                       | *                                                       |           |         |
| 0.250                         | 163016.0.250   | 35A @ 250V <sub>AC</sub>      | *                    | *                                       | *                                                       |           |         |
| 0.315                         | 163016.0.315   | 35A @ 250V <sub>AC</sub>      | *                    | *                                       | *                                                       |           |         |
| 0.400                         | 163016.0.400   | 35A @ 250V <sub>AC</sub>      | 190                  | 190                                     | 4.5                                                     |           |         |
| 0.500                         | 163016.0.500   | 35A @ 250V <sub>AC</sub>      | *                    | *                                       | *                                                       |           |         |
| 0.630                         | 163016.0.630   | 35A @ 250V <sub>AC</sub>      | *                    | *                                       | *                                                       |           |         |
| 0.800                         | 163016.0.800   | 35A @ 250V <sub>AC</sub>      | 160                  | 350                                     | 14                                                      |           |         |
| 1                             | 163016.1       | 35A @ 250V <sub>AC</sub>      | 160                  | 550                                     | 23                                                      |           |         |
| 2                             | 163016.2       | 35A @ 250V <sub>AC</sub>      | 80                   | 500                                     | 80                                                      |           |         |
| 2.5                           | 163016.2.5     | 35A @ 250V <sub>AC</sub>      | *                    | *                                       | *                                                       |           |         |

\* Data on request

Tape reel ordering, add following suffix to article number

GT - (1 500 pieces on tape reel)

e.g. 163016.1.25GT



Recommended Pad Layout

| Rated Current | Fusing Time Limits |     |                   |     |                    |      |                 |     |                  |     |
|---------------|--------------------|-----|-------------------|-----|--------------------|------|-----------------|-----|------------------|-----|
|               | 1.5I <sub>n</sub>  |     | 2.1I <sub>n</sub> |     | 2.75I <sub>n</sub> |      | 4I <sub>n</sub> |     | 10I <sub>n</sub> |     |
|               | Min                | Max | Min               | Max | Min                | Max  | Min             | Max | Min              | Max |
| 160mA - 2.5A  | 1h                 | —   | 30m               | —   | 3s                 | 200s | 1s              | 40s | 150ms            | 3s  |

Resistance to soldering heat, 260°C, 10s, to IEC 60068

G



E167295

Rated Voltage

[Un]

250V<sub>AC</sub>

Rated Breaking Test

Voltage

250V<sub>AC</sub>

Capacity

35A

Class

F



Standard(s)

IEC 60127-3/3

EN 60127-3/3

VDE 0820-3/3

8.4mmx7.6mm - Thermoplastic, Temperature Resistant, Self Extinguishing

| Rated Current<br>$I_n$<br>[A] | x=0, Long Leads<br>x=5, Short Leads<br>Article Number | UL<br>rec | Rated Breaking<br>Current<br>[A] | Voltage<br>Drop<br>[mV] | Power<br>Dissipation<br>@ 1.5I <sub>n</sub><br>[mW] | Pre-arcing<br>I <sup>2</sup> t<br>[A <sup>2</sup> s] | Approvals<br>S - Semko | Marking |
|-------------------------------|-------------------------------------------------------|-----------|----------------------------------|-------------------------|-----------------------------------------------------|------------------------------------------------------|------------------------|---------|
| 0.050                         | 1640X0.0.050                                          | ✓         | 35A @ 250V <sub>AC</sub>         | 820                     | 95                                                  | 0.0003                                               | S                      |         |
| 0.063                         | 1640X0.0.063                                          | ✓         | 35A @ 250V <sub>AC</sub>         | 750                     | 110                                                 | 0.0007                                               | S                      |         |
| 0.080                         | 1640X0.0.080                                          | ✓         | 35A @ 250V <sub>AC</sub>         | 630                     | 120                                                 | 0.0015                                               | S                      |         |
| 0.100                         | 1640X0.0.100                                          | ✓         | 35A @ 250V <sub>AC</sub>         | 550                     | 155                                                 | 0.0035                                               | S                      |         |
| 0.125                         | 1640X0.0.125                                          | ✓         | 35A @ 250V <sub>AC</sub>         | 550                     | 175                                                 | 0.006                                                | S                      |         |
| 0.160                         | 1640X0.0.160                                          | ✓         | 35A @ 250V <sub>AC</sub>         | 460                     | 210                                                 | 0.011                                                | S                      |         |
| 0.200                         | 1640X0.0.200                                          | ✓         | 35A @ 250V <sub>AC</sub>         | 150                     | 80                                                  | 0.018                                                | S                      |         |
| 0.250                         | 1640X0.0.250                                          | ✓         | 35A @ 250V <sub>AC</sub>         | 140                     | 90                                                  | 0.036                                                | S                      |         |
| 0.315                         | 1640X0.0.315                                          | ✓         | 35A @ 250V <sub>AC</sub>         | 130                     | 120                                                 | 0.050                                                | S                      |         |
| 0.400                         | 1640X0.0.400                                          | ✓         | 35A @ 250V <sub>AC</sub>         | 120                     | 140                                                 | 0.10                                                 | S                      |         |
| 0.500                         | 1640X0.0.500                                          | ✓         | 35A @ 250V <sub>AC</sub>         | 110                     | 160                                                 | 0.18                                                 | S                      |         |
| 0.630                         | 1640X0.0.630                                          | ✓         | 35A @ 250V <sub>AC</sub>         | 100                     | 180                                                 | 0.33                                                 | S                      |         |
| 0.800                         | 1640X0.0.800                                          | ✓         | 35A @ 250V <sub>AC</sub>         | 90                      | 200                                                 | 0.14                                                 | S                      |         |
| 1                             | 1640X0.1                                              | ✓         | 35A @ 250V <sub>AC</sub>         | 80                      | 220                                                 | 0.24                                                 | S                      |         |
| 1.25                          | 1640X0.1.25                                           | ✓         | 35A @ 250V <sub>AC</sub>         | 75                      | 260                                                 | 0.35                                                 | S                      |         |
| 1.6                           | 1640X0.1.6                                            | ✓         | 35A @ 250V <sub>AC</sub>         | 70                      | 350                                                 | 0.60                                                 | S                      |         |
| 2                             | 1640X0.2                                              | ✓         | 35A @ 250V <sub>AC</sub>         | 65                      | 380                                                 | 1.2                                                  | S                      |         |
| 2.5                           | 1640X0.2.5                                            | ✓         | 35A @ 250V <sub>AC</sub>         | 60                      | 420                                                 | 2.0                                                  | S                      |         |
| 3.15                          | 1640X0.3.15                                           | ✓         | 35A @ 250V <sub>AC</sub>         | 60                      | 580                                                 | 3.5                                                  | S                      |         |
| 4                             | 1640X0.4                                              | ✓         | 40A @ 250V <sub>AC</sub>         | 60                      | 700                                                 | 6.2                                                  | S                      |         |
| 5                             | 1640X0.5                                              | ✓         | 50A @ 250V <sub>AC</sub>         | 60                      | 900                                                 | 13                                                   | S                      |         |
| 6.3                           | 1640X0.6.3                                            | ✓         | 63A @ 250V <sub>AC</sub>         | 60                      | 1 100                                               | 19                                                   | S                      |         |

X=0 - Long leads

X=5 - Short leads

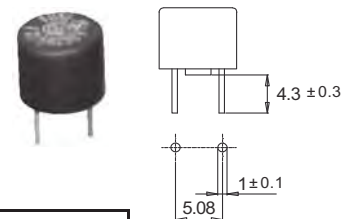
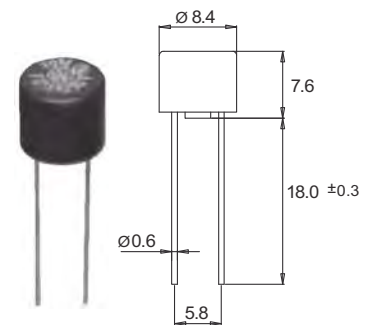
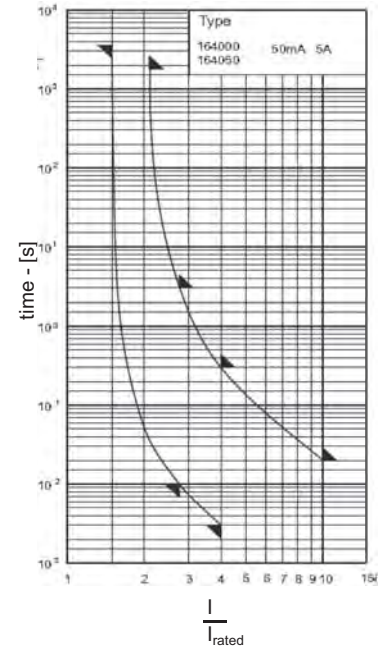
Tape reel ordering, add following suffix to article number

GT - (1 000 pieces on tape reel)

IP - (2 000 pieces)

e.g. 164000.3.15GT

Time-Current Characteristics



| Rated Current | Fusing Time Limits |     |                   |     |                    |     |                 |       |                  |      |
|---------------|--------------------|-----|-------------------|-----|--------------------|-----|-----------------|-------|------------------|------|
|               | 1.5I <sub>n</sub>  |     | 2.1I <sub>n</sub> |     | 2.75I <sub>n</sub> |     | 4I <sub>n</sub> |       | 10I <sub>n</sub> |      |
|               | Min                | Max | Min               | Max | Min                | Max | Min             | Max   | Min              | Max  |
| 50mA - 6.3A   | 1h                 | —   | 30m               | —   | 10ms               | 3s  | 3ms             | 300ms | —                | 20ms |

Dimensions  
[mm]

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**G**   **Rated Voltage** [Un] **250V<sub>AC</sub>** **Rated Breaking Test** Voltage **250V<sub>AC</sub>** Capacity **50A** **Class** **F**  **Standard(s)** **UL 248-14** **IEC 60127-4/2**

**8.4mmx7.6mm - Thermoplastic, Temperature Resistant, Self Extinguishing**

| Rated Current<br>$I_n$<br>[A] | x=0, Long Leads<br>x=5, Short Leads<br>Article Number | UL | Rated Breaking Current<br>[A] | Voltage Drop<br>[mV] | Power Dissipation<br>@ 1.0I <sub>n</sub><br>[mW] | Pre-arcing<br>I <sup>2</sup> t<br>[A <sup>2</sup> s] | Approvals | Marking |
|-------------------------------|-------------------------------------------------------|----|-------------------------------|----------------------|--------------------------------------------------|------------------------------------------------------|-----------|---------|
| 0.050                         | 1645X0.0.050                                          | ✓  | 50A @ 250V <sub>AC</sub>      | 2 400                | 120                                              | 0.0001                                               |           |         |
| 0.063                         | 1645X0.0.063                                          | ✓  | 50A @ 250V <sub>AC</sub>      | 1 350                | 85                                               | 0.0003                                               |           |         |
| 0.080                         | 1645X0.0.080                                          | ✓  | 50A @ 250V <sub>AC</sub>      | 1 200                | 95                                               | 0.0007                                               |           |         |
| 0.100                         | 1645X0.0.100                                          | ✓  | 50A @ 250V <sub>AC</sub>      | 1 100                | 110                                              | 0.0015                                               |           |         |
| 0.125                         | 1645X0.0.125                                          | ✓  | 50A @ 250V <sub>AC</sub>      | 1 000                | 125                                              | 0.003                                                |           |         |
| 0.160                         | 1645X0.0.160                                          | ✓  | 50A @ 250V <sub>AC</sub>      | 950                  | 155                                              | 0.0075                                               |           |         |
| 0.200                         | 1645X0.0.200                                          | ✓  | 50A @ 250V <sub>AC</sub>      | 850                  | 170                                              | 0.013                                                |           |         |
| 0.250                         | 1645X0.0.250                                          | ✓  | 50A @ 250V <sub>AC</sub>      | 240                  | 60                                               | 0.02                                                 |           |         |
| 0.315                         | 1645X0.0.315                                          | ✓  | 50A @ 250V <sub>AC</sub>      | 230                  | 75                                               | 0.03                                                 |           |         |
| 0.400                         | 1645X0.0.400                                          | ✓  | 50A @ 250V <sub>AC</sub>      | 220                  | 90                                               | 0.055                                                |           |         |
| 0.500                         | 1645X0.0.500                                          | ✓  | 50A @ 250V <sub>AC</sub>      | 210                  | 105                                              | 0.1                                                  |           |         |
| 0.630                         | 1645X0.0.630                                          | ✓  | 50A @ 250V <sub>AC</sub>      | 200                  | 130                                              | 0.19                                                 |           |         |
| 0.800                         | 1645X0.0.800                                          | ✓  | 50A @ 250V <sub>AC</sub>      | 190                  | 155                                              | 0.36                                                 |           |         |
| 1                             | 1645X0.1                                              | ✓  | 50A @ 250V <sub>AC</sub>      | 180                  | 180                                              | 0.14                                                 |           |         |
| 1.25                          | 1645X0.1.25                                           | ✓  | 50A @ 250V <sub>AC</sub>      | 170                  | 215                                              | 0.24                                                 |           |         |
| 1.6                           | 1645X0.1.6                                            | ✓  | 50A @ 250V <sub>AC</sub>      | 160                  | 260                                              | 0.34                                                 |           |         |
| 2                             | 1645X0.2                                              | ✓  | 50A @ 250V <sub>AC</sub>      | 150                  | 300                                              | 0.56                                                 |           |         |
| 2.5                           | 1645X0.2.5                                            | ✓  | 50A @ 250V <sub>AC</sub>      | 140                  | 350                                              | 1.1                                                  |           |         |
| 3.15                          | 1645X0.3.15                                           | ✓  | 50A @ 250V <sub>AC</sub>      | 130                  | 410                                              | 2                                                    |           |         |
| 4                             | 1645X0.4                                              | ✓  | 50A @ 250V <sub>AC</sub>      | 120                  | 480                                              | 3.2                                                  |           |         |
| 5                             | 1645X0.5                                              | ✓  | 50A @ 250V <sub>AC</sub>      | 110                  | 550                                              | 6.2                                                  |           |         |
| 6.3                           | 1645X0.6.3                                            | ✓  | 50A @ 250V <sub>AC</sub>      | 100                  | 630                                              | 14                                                   |           |         |
| 8                             | 1645X0.8                                              |    | 50A @ 250V <sub>AC</sub>      | 90                   | 720                                              | 24                                                   |           |         |
| 10                            | 1645X0.10                                             |    | 50A @ 250V <sub>AC</sub>      | 90                   | 900                                              | 40                                                   |           |         |

X=0 - Long leads

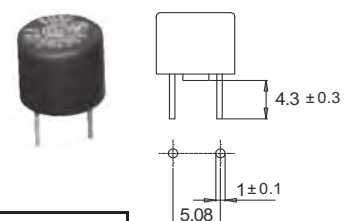
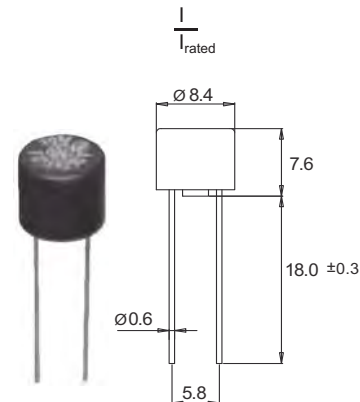
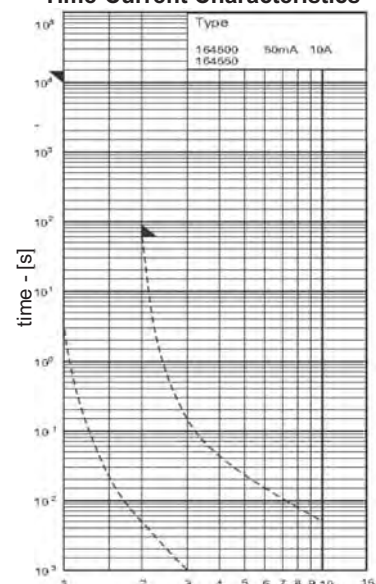
X=5 - Short leads

Tape reel ordering, add following suffix to article number

GT - (1 000 pieces on tape reel)

IP - (2 000 pieces)

e.g. 164500.1.25GT

**Time-Current Characteristics**

| Rated Current | Fusing Time Limits |     |                    |     |                    |     |                    |     |     |     |
|---------------|--------------------|-----|--------------------|-----|--------------------|-----|--------------------|-----|-----|-----|
|               | 1I <sub>n</sub>    |     | 1.35I <sub>n</sub> |     | 1.50I <sub>n</sub> |     | 2.00I <sub>n</sub> |     |     |     |
|               | Min                | Max | Min                | Max | Min                | Max | Min                | Max | Min | Max |
| 50mA - 6.3A   | 4h                 | —   | —                  | —   | —                  | —   | —                  | 60s | —   | —   |

**Dimensions [mm]**

G



Rated Voltage

[Un]

250V<sub>AC</sub>

Rated Breaking Test

Voltage

250V<sub>AC</sub>

Capacity

35A

Class

M

Standard(s)

IEC 60127-3



8.4mmx7.6mm - Thermoplastic, Temperature Resistant, Self Extinguishing

| Rated Current<br>$I_n$<br>[A] | x=0, Long Leads<br>x=5, Short Leads<br>Article Number | UL<br>rec | Rated Breaking<br>Current<br>[A] | Voltage<br>Drop<br>[mV] | Power<br>Dissipation<br>@ 1.5I <sub>n</sub><br>[mW] | Pre-arcing<br>I <sup>2</sup> t<br>[A <sup>2</sup> s] | Approvals | Marking |
|-------------------------------|-------------------------------------------------------|-----------|----------------------------------|-------------------------|-----------------------------------------------------|------------------------------------------------------|-----------|---------|
| 0.160                         | 1650X0.0.160                                          |           | 35A @ 250V <sub>AC</sub>         | 325                     | 140                                                 | 0.075                                                |           |         |
| 0.200                         | 1650X0.0.200                                          |           | 35A @ 250V <sub>AC</sub>         | 120                     | 80                                                  | 0.02                                                 |           |         |
| 0.250                         | 1650X0.0.250                                          |           | 35A @ 250V <sub>AC</sub>         | 120                     | 90                                                  | 0.036                                                |           |         |
| 0.315                         | 1650X0.0.315                                          |           | 35A @ 250V <sub>AC</sub>         | 120                     | 120                                                 | 0.05                                                 |           |         |
| 0.400                         | 1650X0.0.400                                          |           | 35A @ 250V <sub>AC</sub>         | 110                     | 140                                                 | 0.11                                                 |           |         |
| 0.500                         | 1650X0.0.500                                          |           | 35A @ 250V <sub>AC</sub>         | 100                     | 160                                                 | 0.2                                                  |           |         |
| 0.630                         | 1650X0.0.630                                          |           | 35A @ 250V <sub>AC</sub>         | 90                      | 80                                                  | 0.33                                                 |           |         |
| 0.800                         | 1650X0.0.800                                          |           | 35A @ 250V <sub>AC</sub>         | 80                      | 140                                                 | 0.58                                                 |           |         |
| 1                             | 1650X0.1                                              |           | 35A @ 250V <sub>AC</sub>         | 70                      | 160                                                 | 0.9                                                  |           |         |
| 1.25                          | 1650X0.1.25                                           |           | 35A @ 250V <sub>AC</sub>         | 65                      | 190                                                 | 1.4                                                  |           |         |
| 1.6                           | 1650X0.1.6                                            |           | 35A @ 250V <sub>AC</sub>         | 65                      | 200                                                 | 2.5                                                  |           |         |
| 2                             | 1650X0.2                                              |           | 35A @ 250V <sub>AC</sub>         | 60                      | 350                                                 | 3.1                                                  |           |         |
| 2.5                           | 1650X0.2.5                                            |           | 35A @ 250V <sub>AC</sub>         | 55                      | 380                                                 | 5.1                                                  |           |         |
| 3.15                          | 1650X0.3.15                                           |           | 35A @ 250V <sub>AC</sub>         | 55                      | 510                                                 | 9.9                                                  |           |         |
| 4                             | 1650X0.4                                              |           | 40A @ 250V <sub>AC</sub>         | 50                      | 550                                                 | 16                                                   |           |         |

X=0 - Long leads

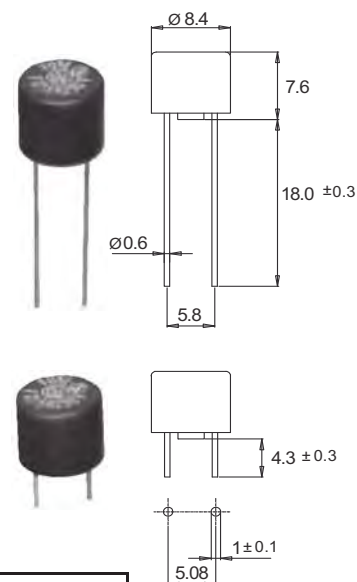
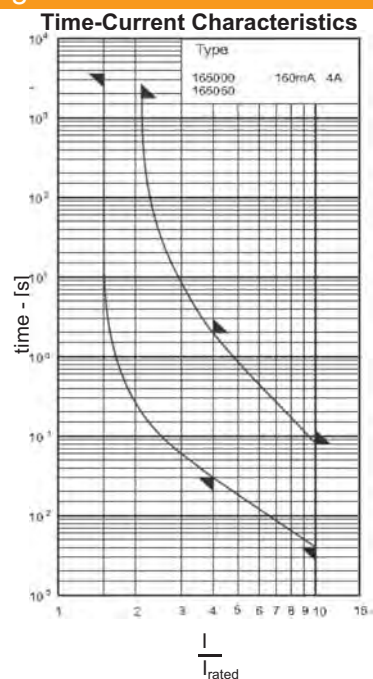
X=5 - Short leads

Tape reel ordering, add following suffix to article number

GT - (1 000 pieces on tape reel)

IP - (2 000 pieces)

e.g. 165000.1.25GT



| Rated Current | Fusing Time Limits |     |                   |     |                    |     |                 |     |                  |      |
|---------------|--------------------|-----|-------------------|-----|--------------------|-----|-----------------|-----|------------------|------|
|               | 1.5I <sub>n</sub>  |     | 2.1I <sub>n</sub> |     | 2.75I <sub>n</sub> |     | 4I <sub>n</sub> |     | 10I <sub>n</sub> |      |
|               | Min                | Max | Min               | Max | Min                | Max | Min             | Max | Min              | Max  |
| 50mA - 6.3A   | 1h                 | —   | —                 | 30m | —                  | —   | 30ms            | 2s  | 4ms              | 80ms |

Dimensions  
[mm]

**G**   

**Rated Voltage** [Un] **Rated Breaking Test** **Class** **Standard(s)**  
 250V<sub>AC</sub> Voltage Capacity T IEC 60127-43/4  
 250V<sub>AC</sub> 35A EN 60127-43/4  
 VDE 0820 - 3/4

8.4mmx7.6mm - Thermoplastic, Temperature Resistant, Self Extinguishing

| Rated Current<br>$I_n$<br>[A] | x=0, Long Leads<br>x=5, Short Leads<br>Article Number | UL<br>rec | Rated Breaking<br>Current<br>[A] | Voltage<br>Drop<br>[mV] | Power<br>Dissipation<br>@ 1.5I <sub>n</sub><br>[mW] | Pre-arcing<br>I <sup>2</sup> t<br>[A <sup>2</sup> s] | Approvals<br>S - Semko<br>V - VDE | Marking |
|-------------------------------|-------------------------------------------------------|-----------|----------------------------------|-------------------------|-----------------------------------------------------|------------------------------------------------------|-----------------------------------|---------|
| 0.040                         | 1660X0.0.040                                          | ✓         | 35A @ 250V <sub>AC</sub>         | 530                     | 60                                                  | 0.015                                                | S V                               |         |
| 0.050                         | 1660X0.0.050                                          | ✓         | 35A @ 250V <sub>AC</sub>         | 490                     | 70                                                  | 0.017                                                | S V                               |         |
| 0.063                         | 1660X0.0.063                                          | ✓         | 35A @ 250V <sub>AC</sub>         | 390                     | 80                                                  | 0.02                                                 | S V                               |         |
| 0.080                         | 1660X0.0.080                                          | ✓         | 35A @ 250V <sub>AC</sub>         | 300                     | 90                                                  | 0.035                                                | S V                               |         |
| 0.100                         | 1660X0.0.100                                          | ✓         | 35A @ 250V <sub>AC</sub>         | 260                     | 100                                                 | 0.06                                                 | S V                               |         |
| 0.125                         | 1660X0.0.125                                          | ✓         | 35A @ 250V <sub>AC</sub>         | 180                     | 110                                                 | 0.12                                                 | S V                               |         |
| 0.160                         | 1660X0.0.166                                          | ✓         | 35A @ 250V <sub>AC</sub>         | 170                     | 130                                                 | 0.21                                                 | S V                               |         |
| 0.200                         | 1660X0.0.200                                          | ✓         | 35A @ 250V <sub>AC</sub>         | 160                     | 140                                                 | 0.32                                                 | S V                               |         |
| 0.250                         | 1660X0.0.250                                          | ✓         | 35A @ 250V <sub>AC</sub>         | 150                     | 150                                                 | 0.50                                                 | S V                               |         |
| 0.315                         | 1660X0.0.315                                          | ✓         | 35A @ 250V <sub>AC</sub>         | 140                     | 160                                                 | 0.8                                                  | S V                               |         |
| 0.400                         | 1660X0.0.400                                          | ✓         | 35A @ 250V <sub>AC</sub>         | 130                     | 170                                                 | 1.1                                                  | S V                               |         |
| 0.500                         | 1660X0.0.500                                          | ✓         | 35A @ 250V <sub>AC</sub>         | 120                     | 180                                                 | 1.8                                                  | S V                               |         |
| 0.630                         | 1660X0.0.630                                          | ✓         | 35A @ 250V <sub>AC</sub>         | 110                     | 200                                                 | 3.2                                                  | S V                               |         |
| 0.800                         | 1660X0.0.800                                          | ✓         | 35A @ 250V <sub>AC</sub>         | 100                     | 220                                                 | 5.2                                                  | S V                               |         |
| 1                             | 1660X0.1                                              | ✓         | 35A @ 250V <sub>AC</sub>         | 85                      | 240                                                 | 8                                                    | S V                               |         |
| 1.25                          | 1660X0.1.25                                           | ✓         | 35A @ 250V <sub>AC</sub>         | 75                      | 290                                                 | 12                                                   | S V                               |         |
| 1.6                           | 1660X0.1.6                                            | ✓         | 35A @ 250V <sub>AC</sub>         | 70                      | 350                                                 | 22                                                   | S V                               |         |
| 2                             | 1660X0.2                                              | ✓         | 35A @ 250V <sub>AC</sub>         | 70                      | 480                                                 | 30                                                   | S V                               |         |
| 2.5                           | 1660X0.2.5                                            | ✓         | 35A @ 250V <sub>AC</sub>         | 70                      | 520                                                 | 46                                                   | S V                               |         |
| 3.15                          | 1660X0.3.15                                           | ✓         | 35A @ 250V <sub>AC</sub>         | 70                      | 600                                                 | 80                                                   | S V                               |         |
| 4                             | 1660X0.4                                              | ✓         | 40A @ 250V <sub>AC</sub>         | 70                      | 800                                                 | 130                                                  | S V                               |         |
| 5                             | 1660X0.5                                              | ✓         | 50A @ 250V <sub>AC</sub>         | 70                      | 1 000                                               | 130                                                  | S V                               |         |
| 6.3                           | 1660X0.6.3                                            | ✓         | 63A @ 250V <sub>AC</sub>         | 70                      | 1 200                                               | 230                                                  | S V                               |         |

X=0 - Long leads

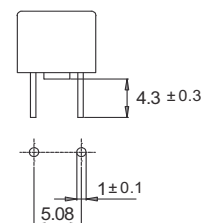
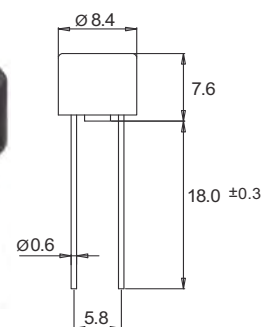
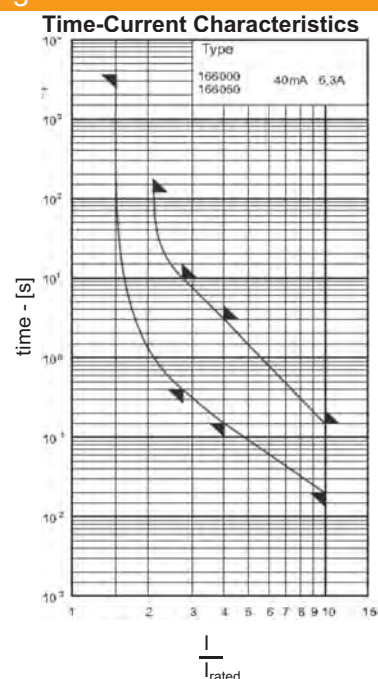
X=5 - Short leads

Tape reel ordering, add following suffix to article number

GT - (1 000 pieces on tape reel)

IP - (2 000 pieces)

e.g. 166000.3.15GT



| Rated Current | Fusing Time Limits |     |                   |     |                    |     |                 |     |                  |       |
|---------------|--------------------|-----|-------------------|-----|--------------------|-----|-----------------|-----|------------------|-------|
|               | 1.5I <sub>n</sub>  |     | 2.1I <sub>n</sub> |     | 2.75I <sub>n</sub> |     | 4I <sub>n</sub> |     | 10I <sub>n</sub> |       |
|               | Min                | Max | Min               | Max | Min                | Max | Min             | Max | Min              | Max   |
| 50mA - 6.3A   | 1h                 | —   | —                 | 2m  | 400ms              | 10s | 150ms           | 3s  | 20ms             | 150ms |

Dimensions  
[mm]

G



E167295

RoHS

Rated Voltage

[Un]

250V<sub>AC</sub>

Rated Breaking Test

Voltage

250V<sub>AC</sub>

Capacity

50A

Class

T



Standard(s)

UL 248-14

CSA C22.s

No 248.14

8.4mmx7.6mm - Thermoplastic, Temperature Resistant, Self Extinguishing

| Rated Current<br>$I_n$<br>[A] | x=0, Long Leads<br>x=5, Short Leads<br>Article Number | UL | Rated Breaking Current<br>[A] | Voltage Drop<br>[mV] | Power Dissipation<br>@ 1.5I <sub>n</sub><br>[mW] | Pre-arcing<br>I <sup>2</sup> t<br>[A <sup>2</sup> s] | Approvals<br>S - Semko | Marking |
|-------------------------------|-------------------------------------------------------|----|-------------------------------|----------------------|--------------------------------------------------|------------------------------------------------------|------------------------|---------|
| 0.050                         | 1665X0.0.050                                          | ✓  | 50A @ 250V <sub>AC</sub>      | 800                  | 40                                               | 0.015                                                |                        |         |
| 0.063                         | 1665X0.0.063                                          | ✓  | 50A @ 250V <sub>AC</sub>      | 700                  | 45                                               | 0.017                                                |                        |         |
| 0.080                         | 1665X0.0.080                                          | ✓  | 50A @ 250V <sub>AC</sub>      | 600                  | 50                                               | 0.02                                                 |                        |         |
| 0.100                         | 1665X0.0.100                                          | ✓  | 50A @ 250V <sub>AC</sub>      | 500                  | 50                                               | 0.025                                                |                        |         |
| 0.125                         | 1665X0.0.125                                          | ✓  | 50A @ 250V <sub>AC</sub>      | 400                  | 50                                               | 0.03                                                 |                        |         |
| 0.160                         | 1665X0.0.160                                          | ✓  | 50A @ 250V <sub>AC</sub>      | 350                  | 55                                               | 0.07                                                 |                        |         |
| 0.200                         | 1665X0.0.200                                          | ✓  | 50A @ 250V <sub>AC</sub>      | 300                  | 60                                               | 0.14                                                 |                        |         |
| 0.250                         | 1665X0.0.250                                          | ✓  | 50A @ 250V <sub>AC</sub>      | 250                  | 65                                               | 0.25                                                 |                        |         |
| 0.315                         | 1665X0.0.315                                          | ✓  | 50A @ 250V <sub>AC</sub>      | 240                  | 75                                               | 0.42                                                 |                        |         |
| 0.400                         | 1665X0.0.400                                          | ✓  | 50A @ 250V <sub>AC</sub>      | 230                  | 95                                               | 0.53                                                 |                        |         |
| 0.500                         | 1665X0.0.500                                          | ✓  | 50A @ 250V <sub>AC</sub>      | 220                  | 110                                              | 1.0                                                  |                        |         |
| 0.630                         | 1665X0.0.630                                          | ✓  | 50A @ 250V <sub>AC</sub>      | 170                  | 110                                              | 1.5                                                  |                        |         |
| 0.800                         | 1665X0.0.800                                          | ✓  | 50A @ 250V <sub>AC</sub>      | 150                  | 120                                              | 3.1                                                  |                        |         |
| 1                             | 1665X0.1                                              | ✓  | 50A @ 250V <sub>AC</sub>      | 130                  | 130                                              | 4.8                                                  |                        |         |
| 1.25                          | 1665X0.1.25                                           | ✓  | 50A @ 250V <sub>AC</sub>      | 150                  | 190                                              | 5.7                                                  |                        |         |
| 1.6                           | 1665X0.1.6                                            | ✓  | 50A @ 250V <sub>AC</sub>      | 145                  | 235                                              | 11                                                   |                        |         |
| 2                             | 1665X0.2                                              | ✓  | 50A @ 250V <sub>AC</sub>      | 125                  | 250                                              | 18                                                   |                        |         |
| 2.5                           | 1665X0.2.5                                            | ✓  | 50A @ 250V <sub>AC</sub>      | 120                  | 300                                              | 25                                                   |                        |         |
| 3.15                          | 1665X0.3.15                                           | ✓  | 50A @ 250V <sub>AC</sub>      | 110                  | 350                                              | 40                                                   |                        |         |
| 4                             | 1665X0.4                                              | ✓  | 50A @ 250V <sub>AC</sub>      | 100                  | 400                                              | 72                                                   |                        |         |
| 5                             | 1665X0.5                                              | ✓  | 50A @ 250V <sub>AC</sub>      | 95                   | 475                                              | 130                                                  |                        |         |
| 6.3                           | 1665X0.6.3                                            | ✓  | 50A @ 250V <sub>AC</sub>      | 90                   | 570                                              | 130                                                  |                        |         |
| 8                             | 1665X0.8                                              |    | 50A @ 250V <sub>AC</sub>      | 90                   | 720                                              | 230                                                  |                        |         |
| 10                            | 1665X0.10                                             |    | 50A @ 250V <sub>AC</sub>      | 90                   | 900                                              | 370                                                  |                        |         |

X=0 - Long leads

X=5 - Short leads

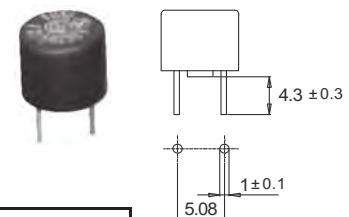
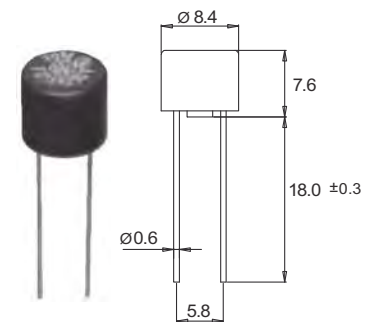
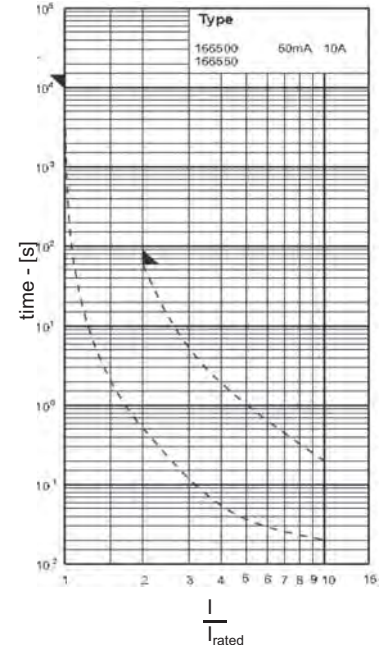
Tape reel ordering, add following suffix to article number

GT - (1 000 pieces on tape reel)

IP - (2 000 pieces)

e.g. 166500.3.15GT

Time-Current Characteristics



| Rated Current | Fusing Time Limits |     |                    |     |                    |     |                    |     |     |     |
|---------------|--------------------|-----|--------------------|-----|--------------------|-----|--------------------|-----|-----|-----|
|               | 1I <sub>n</sub>    |     | 1.35I <sub>n</sub> |     | 1.50I <sub>n</sub> |     | 2.00I <sub>n</sub> |     |     |     |
|               | Min                | Max | Min                | Max | Min                | Max | Min                | Max | Min | Max |
| 50mA - 10A    | 4h                 | —   | —                  | —   | —                  | —   | —                  | 60s | —   | —   |

Dimensions  
[mm]

SIBA LLC

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G



E167295



Rated Voltage

[Un]  
250V<sub>AC</sub>

Rated Breaking Test

Voltage  
250V<sub>AC</sub> Capacity  
50A

Class

F

Standard(s)

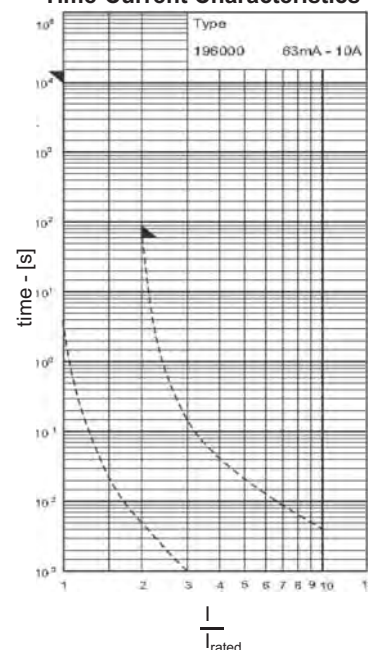
UL 248-14

2.3mmx8mm - Ceramic Tube w/Heat Shrink Tubing, Leads Tinned

| Rated Current<br>$I_n$<br>[A] | Article Number | UL             | Rated Breaking Current<br>[A]                         | Voltage Drop<br>[mV] | Power Dissipation<br>@ $1.5I_n$<br>[mW] | Pre-arcing<br>$I^2t$<br>[A <sup>2</sup> s] | Approvals |
|-------------------------------|----------------|----------------|-------------------------------------------------------|----------------------|-----------------------------------------|--------------------------------------------|-----------|
| 0.063                         | 196000.0.063   | ✓              | 300A @ 125V <sub>DC</sub><br>50A @ 125V <sub>AC</sub> | 2 250                | 7.21                                    | 0.0002                                     |           |
| 0.125                         | 196000.0.125   | ✓              | 300A @ 125V <sub>DC</sub><br>50A @ 125V <sub>AC</sub> | 1 500                | 2.78                                    | 0.001                                      |           |
| 0.250                         | 196000.0.250   | ✓              | 300A @ 125V <sub>DC</sub><br>50A @ 125V <sub>AC</sub> | 1 000                | 0.60                                    | 0.007                                      |           |
| 0.375                         | 196000.0.375   | ✓              | 300A @ 125V <sub>DC</sub><br>50A @ 125V <sub>AC</sub> | 1 000                | 0.40                                    | 0.006                                      |           |
| 0.500                         | 196000.0.500   | ✓              | 300A @ 125V <sub>DC</sub><br>50A @ 125V <sub>AC</sub> | 1 000                | 0.27                                    | 0.018                                      |           |
| 0.750                         | 196000.0.750   | ✓              | 300A @ 125V <sub>DC</sub><br>50A @ 125V <sub>AC</sub> | 275                  | 0.16                                    | 0.04                                       |           |
| 1                             | 196000.1       | ✓              | 300A @ 125V <sub>DC</sub><br>50A @ 125V <sub>AC</sub> | 275                  | 0.12                                    | 0.094                                      |           |
| 1.5                           | 196000.1.5     | ✓              | 300A @ 125V <sub>DC</sub><br>50A @ 125V <sub>AC</sub> | 275                  | 0.063                                   | 0.33                                       |           |
| 2                             | 196000.2       | ✓              | 300A @ 125V <sub>DC</sub><br>50A @ 125V <sub>AC</sub> | 250                  | 0.057                                   | 0.41                                       |           |
| 3                             | 196000.3       | ✓              | 300A @ 125V <sub>DC</sub><br>50A @ 125V <sub>AC</sub> | 250                  | 0.029                                   | 1.5                                        |           |
| 4                             | 196000.4       | ✓              | 300A @ 125V <sub>DC</sub><br>50A @ 125V <sub>AC</sub> | 225                  | 0.018                                   | 3.2                                        |           |
| 5                             | 196000.5       | ✓              | 300A @ 125V <sub>DC</sub><br>50A @ 125V <sub>AC</sub> | 225                  | 0.017                                   | 4.1                                        |           |
| 7                             | 196000.7       | ✓              | 300A @ 125V <sub>DC</sub><br>50A @ 125V <sub>AC</sub> | 150                  | 0.013                                   | 11                                         |           |
| 10                            | 196000.10      | ✓ <sup>1</sup> | 50A @ 125V <sub>AC</sub>                              | 125                  | 0.06                                    | 30                                         |           |

<sup>1</sup> UL recognition only

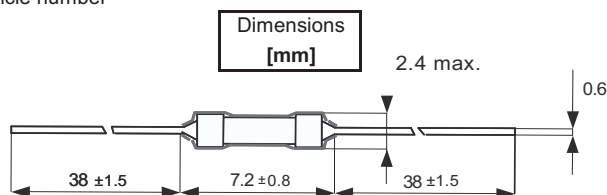
Time-Current Characteristics



Tape reel ordering, add following suffix to article number

GT - (5 000 pieces on tape reel)

e.g. 196000.10GT



| Rated Current | Fusing Time Limits |     |           |     |           |     |           |     |     |     |
|---------------|--------------------|-----|-----------|-----|-----------|-----|-----------|-----|-----|-----|
|               | $1I_n$             |     | $1.35I_n$ |     | $1.50I_n$ |     | $2.00I_n$ |     |     |     |
|               | Min                | Max | Min       | Max | Min       | Max | Min       | Max | Min | Max |
| 63mA - 6.3A   | 4h                 | —   | —         | —   | —         | —   | —         | 5s  | —   | —   |

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G



RoHS

Rated Voltage

[Un]  
250V<sub>AC</sub>

Rated Breaking Test

Voltage  
250V<sub>AC</sub> Capacity  
50A

Class

FF

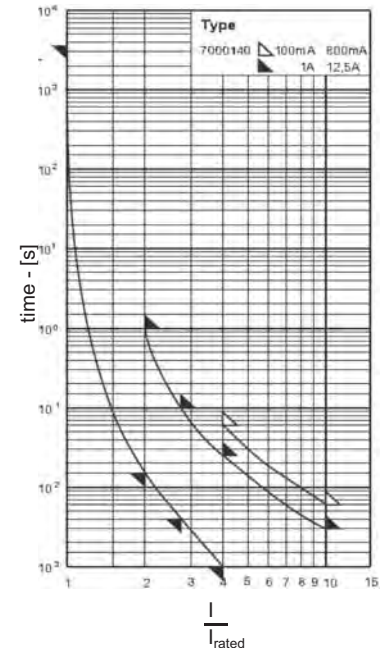
Standard(s)



5mmx20mm - Ceramic Tube w/Filler, Contacts - Brass, Nickel Plated

| Rated Current<br>$I_n$<br>[A] | Article Number | UL<br>rec | Rated Breaking<br>Current<br>[A] | Voltage<br>Drop<br>[mV] | Power<br>Dissipation<br>@ 1.0I <sub>n</sub><br>[mW] | Pre-arcing<br>I <sup>2</sup> t<br>[A <sup>2</sup> s] | Approvals |
|-------------------------------|----------------|-----------|----------------------------------|-------------------------|-----------------------------------------------------|------------------------------------------------------|-----------|
| 0.100                         | 7000140.0.100  |           | 300kA @ 250V <sub>AC</sub>       | 4 000                   | 0.4                                                 | 0.0016                                               |           |
| 0.125                         | 7000140.0.125  | ✓         | 300kA @ 250V <sub>AC</sub>       | 3 500                   | 0.5                                                 | 0.0024                                               |           |
| 0.160                         | 7000140.0.160  | ✓         | 300kA @ 250V <sub>AC</sub>       | 1 300                   | 0.3                                                 | 0.004                                                |           |
| 0.200                         | 7000140.0.200  | ✓         | 300kA @ 250V <sub>AC</sub>       | 600                     | 0.2                                                 | 0.008                                                |           |
| 0.250                         | 7000140.0.250  | ✓         | 300kA @ 250V <sub>AC</sub>       | 550                     | 0.2                                                 | 0.019                                                |           |
| 0.315                         | 7000140.0.315  | ✓         | 300kA @ 250V <sub>AC</sub>       | 500                     | 0.2                                                 | 0.03                                                 |           |
| 0.400                         | 7000140.0.400  | ✓         | 300kA @ 250V <sub>AC</sub>       | 500                     | 0.2                                                 | 0.065                                                |           |
| 0.500                         | 7000140.0.500  | ✓         | 300kA @ 250V <sub>AC</sub>       | 550                     | 0.3                                                 | 0.12                                                 |           |
| 0.630                         | 7000140.0.630  | ✓         | 300kA @ 250V <sub>AC</sub>       | 600                     | 0.4                                                 | 0.17                                                 |           |
| 0.800                         | 7000140.0.800  | ✓         | 300kA @ 250V <sub>AC</sub>       | 600                     | 0.5                                                 | 0.26                                                 |           |
| 1                             | 7000140.1      | ✓         | 300kA @ 250V <sub>AC</sub>       | 600                     | 0.6                                                 | 0.17                                                 |           |
| 1.25                          | 7000140.1.25   | ✓         | 300kA @ 250V <sub>AC</sub>       | 400                     | 0.5                                                 | 0.26                                                 |           |
| 1.6                           | 7000140.1.6    | ✓         | 300kA @ 250V <sub>AC</sub>       | 400                     | 0.7                                                 | 0.31                                                 |           |
| 2                             | 7000140.2      | ✓         | 300kA @ 250V <sub>AC</sub>       | 400                     | 0.8                                                 | 0.64                                                 |           |
| 2.5                           | 7000140.2.5    | ✓         | 300kA @ 250V <sub>AC</sub>       | 400                     | 1.0                                                 | 0.88                                                 |           |
| 3.15                          | 7000140.3.15   | ✓         | 300kA @ 250V <sub>AC</sub>       | 400                     | 1.3                                                 | 1.6                                                  |           |
| 4                             | 7000140.4      | ✓         | 300kA @ 250V <sub>AC</sub>       | 350                     | 1.4                                                 | 3.2                                                  |           |
| 5                             | 7000140.5      | ✓         | 300kA @ 250V <sub>AC</sub>       | 350                     | 1.8                                                 | 5.9                                                  |           |
| 6.3                           | 7000140.6.3    |           | 300kA @ 250V <sub>AC</sub>       | 300                     | 1.9                                                 | 10                                                   |           |
| 8                             | 7000140.8      |           | 300kA @ 250V <sub>AC</sub>       | 300                     | 2.4                                                 | 19                                                   |           |
| 10                            | 7000140.10     |           | 300kA @ 250V <sub>AC</sub>       | 300                     | 3.0                                                 | 30                                                   |           |
| 12.5                          | 7000140.12.5   |           | 300kA @ 250V <sub>AC</sub>       | 200                     | 2.5                                                 | 115                                                  |           |

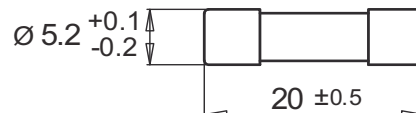
Time-Current Characteristics



|                     |
|---------------------|
| Weight (kg per 100) |
| 0.14                |
| Units per Package   |
| 10                  |

For 6.3A and higher, consideration should be given to heat dissipation

IP - (1 000 pieces)  
e.g. 70 001 140.3.15IP

Dimensions  
[mm]

| Rated Current | Fusing Time Limits |     |                 |     |                    |       |                 |      |                  |     |
|---------------|--------------------|-----|-----------------|-----|--------------------|-------|-----------------|------|------------------|-----|
|               | 1I <sub>n</sub>    |     | 2I <sub>n</sub> |     | 2.75I <sub>n</sub> |       | 4I <sub>n</sub> |      | 10I <sub>n</sub> |     |
|               | Min                | Max | Min             | Max | Min                | Max   | Min             | Max  | Min              | Max |
| 100mA - 800A  | 1h                 | —   | —               | —   | —                  | —     | —               | 60ms | —                | 6ms |
| 1A - 12.5A    | 1h                 | —   | —               | 1s  | 4ms                | 100ms | 1ms             | 25ms | —                | 3ms |

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G



RoHS

Rated Voltage

[Un]  
400V<sub>AC</sub>

Rated Breaking Test

Voltage  
400V<sub>AC</sub> Capacity  
10kA

Class

FF

Standard(s)



5mmx20mm - Ceramic Tube w/Filler, Contacts - Brass, Nickel Plated

| Rated Current<br>$I_n$<br>[A] | Article Number | UL<br>rec | Rated Breaking<br>Current<br>[A] | Voltage<br>Drop<br>[mV] | Power<br>Dissipation<br>@ 1.0I <sub>n</sub><br>[mW] | Pre-arcing<br>I <sup>2</sup> t<br>[A <sup>2</sup> s] | Approvals |
|-------------------------------|----------------|-----------|----------------------------------|-------------------------|-----------------------------------------------------|------------------------------------------------------|-----------|
| 0.100                         | 7000740.0.100  |           | 10kA @ 400V <sub>AC</sub>        | 4 000                   | 0.4                                                 | 0.0016                                               |           |
| 0.125                         | 7000740.0.125  |           | 10kA @ 400V <sub>AC</sub>        | 3 500                   | 0.5                                                 | 0.0024                                               |           |
| 0.160                         | 7000740.0.160  |           | 10kA @ 400V <sub>AC</sub>        | 1 300                   | 0.3                                                 | 0.004                                                |           |
| 0.200                         | 7000740.0.200  |           | 10kA @ 400V <sub>AC</sub>        | 600                     | 0.2                                                 | 0.01                                                 |           |
| 0.250                         | 7000740.0.250  |           | 10kA @ 400V <sub>AC</sub>        | 550                     | 0.2                                                 | 0.02                                                 |           |
| 0.315                         | 7000740.0.315  |           | 10kA @ 400V <sub>AC</sub>        | 500                     | 0                                                   | 0.04                                                 |           |
| 0.400                         | 7000740.0.400  |           | 10kA @ 400V <sub>AC</sub>        | 500                     | 0.2                                                 | 0.07                                                 |           |
| 0.500                         | 7000740.0.500  |           | 10kA @ 400V <sub>AC</sub>        | 550                     | 0.3                                                 | 0.07                                                 |           |
| 0.630                         | 7000740.0.630  |           | 10kA @ 400V <sub>AC</sub>        | 600                     | 0.4                                                 | 0.15                                                 |           |
| 0.800                         | 7000740.0.800  |           | 10kA @ 400V <sub>AC</sub>        | 600                     | 0.5                                                 | 0.32                                                 |           |
| 1                             | 7000740.1      |           | 10kA @ 400V <sub>AC</sub>        | 600                     | 0.6                                                 | 0.32                                                 |           |
| 1.25                          | 7000740.1.25   |           | 10kA @ 400V <sub>AC</sub>        | 400                     | 0.5                                                 | 0.20                                                 |           |
| 1.6                           | 7000740.1.6    |           | 10kA @ 400V <sub>AC</sub>        | 400                     | 0.7                                                 | 0.31                                                 |           |
| 2                             | 7000740.2      |           | 10kA @ 400V <sub>AC</sub>        | 400                     | 0.8                                                 | 0.64                                                 |           |
| 2.5                           | 7000740.2.5    |           | 10kA @ 400V <sub>AC</sub>        | 400                     | 1.0                                                 | 0.88                                                 |           |
| 3.15                          | 7000740.3.15   |           | 10kA @ 400V <sub>AC</sub>        | 400                     | 1.3                                                 | 1.6                                                  |           |
| 4                             | 7000740.4      |           | 10kA @ 400V <sub>AC</sub>        | 350                     | 1.4                                                 | 3.2                                                  |           |
|                               |                |           |                                  |                         | @ 1.5I <sub>n</sub>                                 |                                                      |           |
| 6.3                           | 7000740.6.3    | ✓         | 300kA @ 250V <sub>AC</sub>       | 250                     | 2.8                                                 | 1.6                                                  |           |
| 8                             | 7000740.8      | ✓         | 300kA @ 250V <sub>AC</sub>       | 230                     | 3.0                                                 | 4.5                                                  |           |
| 10                            | 7000740.10     | ✓         | 300kA @ 250V <sub>AC</sub>       | 180                     | 3.4                                                 | 8.8                                                  |           |
| 12.5                          | 7000740.12.5   | ✓         | 300kA @ 250V <sub>AC</sub>       | 150                     | 4.0                                                 | 15                                                   |           |
| 16                            | 7000740.16     |           | 10kA @ 125V <sub>AC</sub>        | 130                     | 3.8                                                 | 46                                                   |           |

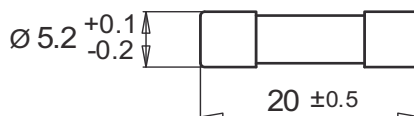
Weight (kg per 100)

0.14

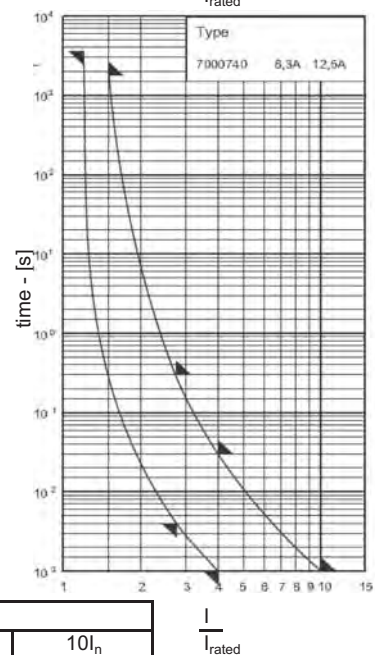
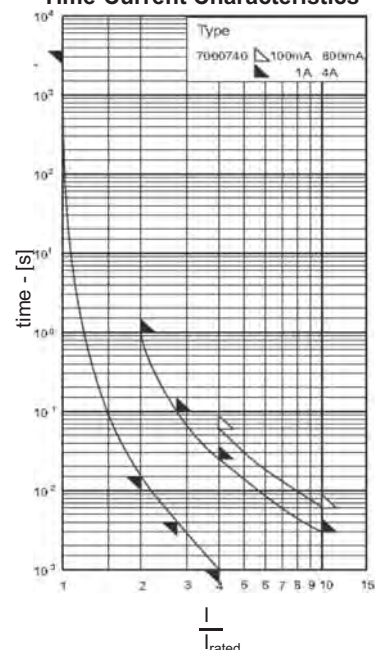
Units per Package

10

For 6.3A and higher, consideration should be given to heat dissipation

Dimensions  
[mm]

Time-Current Characteristics



| Rated Current | Fusing Time Limits |     |                 |     |                    |       |                 |      |                  |     |
|---------------|--------------------|-----|-----------------|-----|--------------------|-------|-----------------|------|------------------|-----|
|               | 1I <sub>n</sub>    |     | 2I <sub>n</sub> |     | 2.75I <sub>n</sub> |       | 4I <sub>n</sub> |      | 10I <sub>n</sub> |     |
|               | Min                | Max | Min             | Max | Min                | Max   | Min             | Max  | Min              | Max |
| 100mA - 800A  | 1h                 | —   | —               | —   | —                  | —     | —               | 60ms | —                | 6ms |
| 1A - 4A       | 1h                 | —   | —               | 1s  | 4ms                | 100ms | 1ms             | 25ms | —                | 3ms |
| Rated Current | 1.2I <sub>n</sub>  |     | 2I <sub>n</sub> |     | 2.75I <sub>n</sub> |       | 4I <sub>n</sub> |      | 10I <sub>n</sub> |     |
| 1A - 4A       | 1h                 | —   | —               | 30m | 4ms                | 300ms | 1ms             | 30ms | —                | 1ms |

IP - (1 000 pieces)  
e.g. 70 007 40.1.25IP

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G



Rated Voltage

 $[U_n]$   
 660V<sub>AC/DC</sub>

Rated Breaking Test

 Voltage  
 Capacity  
 660V<sub>AC/DC</sub> 100kA

Class

aR{FF}

Standard(s)



5mmx20mm - Ceramic Tube w/Filler, Contacts - Brass, Nickel Plated

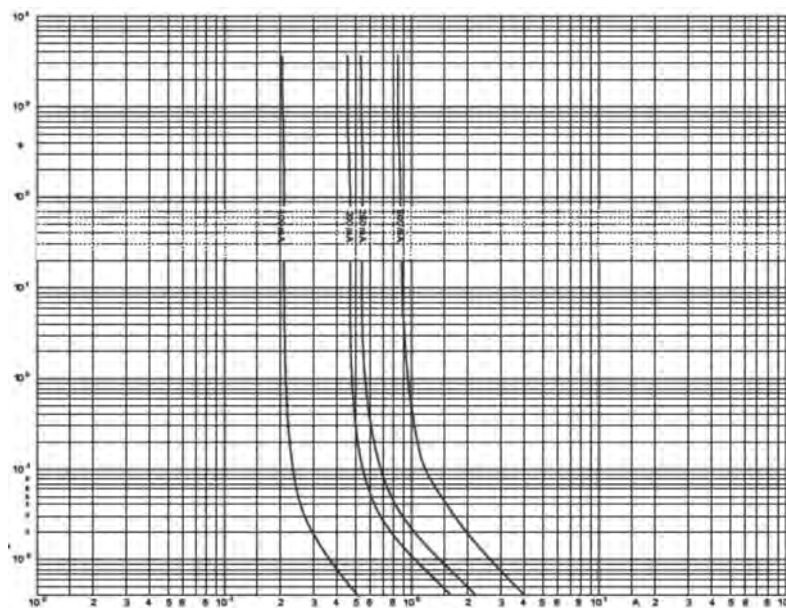
Short Circuit Protection Only

| Rated Current<br>$I_n$<br>[A] | Article Number | UL<br>rec | Rated Breaking<br>Current<br>[A] | Voltage<br>Drop<br>[mV] | Power<br>Dissipation<br>@ 1.0I <sub>n</sub><br>[mW] | Pre-arcing<br>$I^2t$<br>[A <sup>2</sup> s] | Approvals |
|-------------------------------|----------------|-----------|----------------------------------|-------------------------|-----------------------------------------------------|--------------------------------------------|-----------|
| 0.100                         | 7018040.0.100  |           | 100kA @ 660V <sub>AC/DC</sub>    | 1 000                   | 0.1                                                 | 0.0009                                     |           |
| 0.200                         | 7018040.0.200  |           | 100kA @ 660V <sub>AC/DC</sub>    | 600                     | 0.2                                                 | 0.01                                       |           |
| 0.250                         | 7018040.0.250  |           | 100kA @ 660V <sub>AC/DC</sub>    | 550                     | 0.2                                                 | 0.02                                       |           |
| 0.500                         | 7018040.0.500  |           | 100kA @ 660V <sub>AC/DC</sub>    | 550                     | 0.3                                                 | 0.07                                       |           |

|                     |
|---------------------|
| Weight (kg per 100) |
| 0.14                |
| Units per Package   |
| 10                  |

IP - (1 000 pieces)  
 e.g. 70 180 40.3.15IP

Virtual pre-arcing time



RMS prospective current


 Dimensions  
 [mm]


| Rated Current | Fusing Time Limits |     |                 |     |                    |     |                 |      |                  |     |
|---------------|--------------------|-----|-----------------|-----|--------------------|-----|-----------------|------|------------------|-----|
|               | 1I <sub>n</sub>    |     | 2I <sub>n</sub> |     | 2.75I <sub>n</sub> |     | 4I <sub>n</sub> |      | 10I <sub>n</sub> |     |
|               | Min                | Max | Min             | Max | Min                | Max | Min             | Max  | Min              | Max |
| 100mA - 500A  | 1h                 | —   | —               | —   | —                  | —   | —               | 60ms | —                | 6ms |

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|   |                                                                                              |                                                                                   |                                                                                   |                            |                                                 |       |                                                 |
|---|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------|-------------------------------------------------|-------|-------------------------------------------------|
| G | <br>E167295 |  |  | Rated Voltage              | Rated Breaking Test                             | Class | Standard(s)                                     |
|   |                                                                                              |                                                                                   |                                                                                   | [Un]<br>250V <sub>AC</sub> | Voltage<br>250V <sub>AC</sub> Capacity<br>1.5kA | F     | IEC 60127-2/2<br>EN 60127-2/2<br>VDE 0820 - 2/2 |

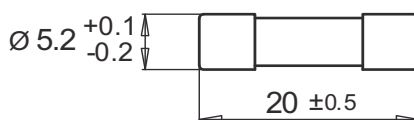
5mmx20mm - Glass Tube, Contacts - Brass, Nickel Plated

| Rated Current<br>$I_n$<br>[A] | Article Number | UL<br>rec | Rated Breaking<br>Current<br>[A] | Voltage<br>Drop<br>[mV] | Power<br>Dissipation<br>@ 1.5 $I_n$<br>[W] | Pre-arcing<br>$I^2t$<br>[A <sup>2</sup> s] | Approvals<br>S - Semko<br>V - VDE<br>B - BEAB |
|-------------------------------|----------------|-----------|----------------------------------|-------------------------|--------------------------------------------|--------------------------------------------|-----------------------------------------------|
| 0.032                         | 179020.0.032   | ✓         | 35A @ 250V <sub>AC</sub>         | 10 000                  | 0.8                                        | 0.0001                                     | S V                                           |
| 0.040                         | 179020.0.040   | ✓         | 35A @ 250V <sub>AC</sub>         | 8 000                   | 0.8                                        | 0.0002                                     | S V B                                         |
| 0.050                         | 179020.0.050   | ✓         | 35A @ 250V <sub>AC</sub>         | 3 500                   | 0.4                                        | 0.0004                                     | S V                                           |
| 0.063                         | 179020.0.063   | ✓         | 35A @ 250V <sub>AC</sub>         | 3 500                   | 0.5                                        | 0.0007                                     | S V B                                         |
| 0.080                         | 179020.0.080   | ✓         | 35A @ 250V <sub>AC</sub>         | 2 500                   | 0.5                                        | 0.0017                                     | S V B                                         |
| 0.100                         | 179020.0.100   | ✓         | 35A @ 250V <sub>AC</sub>         | 2 200                   | 0.6                                        | 0.0022                                     | S V B                                         |
| 0.125                         | 179020.0.125   | ✓         | 35A @ 250V <sub>AC</sub>         | 350                     | 0.2                                        | 0.01                                       | S V B                                         |
| 0.160                         | 179020.0.160   | ✓         | 35A @ 250V <sub>AC</sub>         | 310                     | 0.2                                        | 0.02                                       | S V B                                         |
| 0.200                         | 179020.0.200   | ✓         | 35A @ 250V <sub>AC</sub>         | 290                     | 0.2                                        | 0.01                                       | S V B                                         |
| 0.250                         | 179020.0.250   | ✓         | 35A @ 250V <sub>AC</sub>         | 280                     | 0.2                                        | 0.02                                       | S V B                                         |
| 0.315                         | 179020.0.315   | ✓         | 35A @ 250V <sub>AC</sub>         | 230                     | 0.3                                        | 0.037                                      | S V B                                         |
| 0.400                         | 179020.0.400   | ✓         | 35A @ 250V <sub>AC</sub>         | 200                     | 0.3                                        | 0.073                                      | S V B                                         |
| 0.500                         | 179020.0.500   | ✓         | 35A @ 250V <sub>AC</sub>         | 160                     | 0.3                                        | 0.16                                       | S V B                                         |
| 0.630                         | 179020.0.630   | ✓         | 35A @ 250V <sub>AC</sub>         | 140                     | 0.3                                        | 0.39                                       | S V B                                         |
| 0.700                         | 179020.0.700   | ✓         | 35A @ 250V <sub>AC</sub>         | 140                     | 0.3                                        | 0.56                                       |                                               |
| 0.800                         | 179020.0.800   | ✓         | 35A @ 250V <sub>AC</sub>         | 130                     | 0.4                                        | 0.8                                        | S V B                                         |
| 1                             | 179020.1       | ✓         | 35A @ 250V <sub>AC</sub>         | 130                     | 0.4                                        | 1.5                                        | S V B                                         |
| 1.25                          | 179020.1.25    | ✓         | 35A @ 250V <sub>AC</sub>         | 120                     | 0.5                                        | 2.0                                        | S V B                                         |
| 1.4                           | 179020.1.4     | ✓         | 35A @ 250V <sub>AC</sub>         | 120                     | 0.6                                        | 2.5                                        |                                               |
| 1.5                           | 179020.1.5     | ✓         | 35A @ 250V <sub>AC</sub>         | 120                     | 0.6                                        | 3.2                                        |                                               |
| 1.6                           | 179020.1.6     | ✓         | 35A @ 250V <sub>AC</sub>         | 120                     | 0.7                                        | 4.1                                        | S V B                                         |
| 2                             | 179020.2       | ✓         | 35A @ 250V <sub>AC</sub>         | 120                     | 0.7                                        | 6.2                                        | S V B                                         |
| 2.5                           | 179020.2.5     | ✓         | 35A @ 250V <sub>AC</sub>         | 120                     | 0.9                                        | 11                                         | S V B                                         |
| 3.15                          | 179020.3.15    | ✓         | 35A @ 250V <sub>AC</sub>         | 120                     | 1.0                                        | 20                                         | S V B                                         |
| 3.5                           | 179020.3.5     | ✓         | 35A @ 250V <sub>AC</sub>         | 110                     | 1.2                                        | 20                                         |                                               |
| 4                             | 179020.4       | ✓         | 40A @ 250V <sub>AC</sub>         | 100                     | 1.3                                        | 25                                         | S V B                                         |
| 5                             | 179020.5       | ✓         | 50A @ 250V <sub>AC</sub>         | 100                     | 1.4                                        | 42                                         | S V B                                         |
| 6.3                           | 179020.6.3     | ✓         | 63A @ 250V <sub>AC</sub>         | 100                     | 1.7                                        | 79                                         | S V B                                         |
| 8                             | 179020.8       |           | 80A @ 250V <sub>AC</sub>         | 100                     | 2.0                                        | 125                                        |                                               |
| 10                            | 179020.10      |           | 100A @ 250V <sub>AC</sub>        | 100                     | 2.4                                        | 220                                        |                                               |

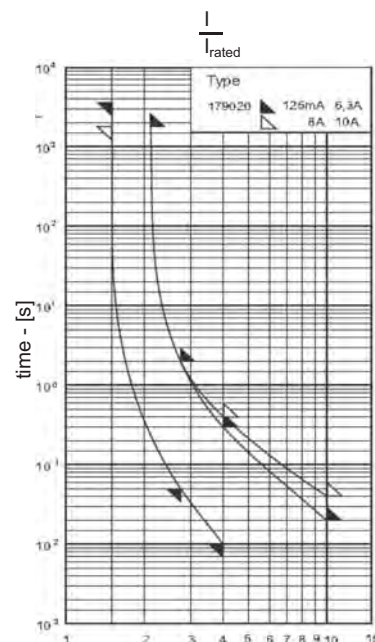
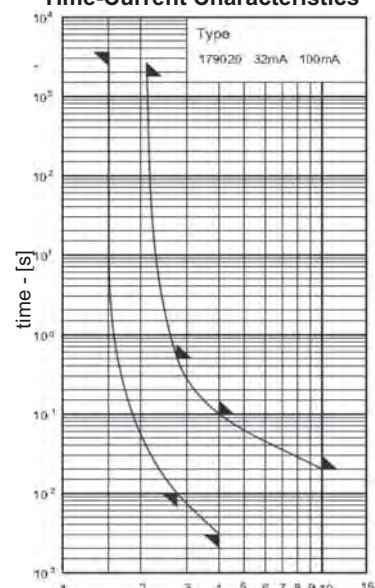
|                     |
|---------------------|
| Weight (kg per 100) |
| 0.14                |
| Units per Package   |
| 10                  |


 Dimensions  
[mm]

FC - 1 000 pieces with color code  
 AK - with assembled leaded caps  
 IP - (1 000 pieces)  
 e.g. 179020.3.15IP



Time-Current Characteristics



| Rated Current | Fusing Time Limits |     |           |     |            |       |         |       |          |      |
|---------------|--------------------|-----|-----------|-----|------------|-------|---------|-------|----------|------|
|               | 1.5 $I_n$          |     | 2.1 $I_n$ |     | 2.75 $I_n$ |       | 4 $I_n$ |       | 10 $I_n$ |      |
|               | Min                | Max | Min       | Max | Min        | Max   | Min     | Max   | Min      | Max  |
| 32mA - 100mA  | 1h                 | —   | —         | 30m | 10ms       | 500ms | 3ms     | 100ms | —        | 20ms |
| 125mA - 6.3A  | 1h                 | —   | —         | 30m | 50ms       | 2s    | 10ms    | 300ms | —        | 20ms |
| 8A - 10A      | 30m                | —   | —         | 30m | 50ms       | 2s    | 10ms    | 400ms | —        | 40ms |

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G



E167295

Rated Voltage

[Un]  
250V<sub>AC</sub>

Rated Breaking Test

Voltage  
250V<sub>AC</sub> Capacity  
1.5kA

Class

F

Standard(s)

IEC 60127-2/1  
EN 60127-2/1  
VDE 0820 - 2/1

5mmx20mm - Ceramic Tube, Contacts - Brass, Nickel Plated

| Rated Current<br>$I_n$<br>[A] | Article Number | UL<br>rec | Rated Breaking<br>Current<br>[A]        | Voltage<br>Drop<br>[mV] | Power<br>Dissipation<br>@ 1.5I <sub>n</sub><br>[W] | Pre-arcing<br>I <sup>2</sup> t<br>[A <sup>2</sup> s] | Approvals<br>S - Semko |
|-------------------------------|----------------|-----------|-----------------------------------------|-------------------------|----------------------------------------------------|------------------------------------------------------|------------------------|
| 0.050                         | 179021.0.050   |           | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 4 000                   | 0.5                                                | 0.00022                                              | S                      |
| 0.063                         | 179021.0.063   |           | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 3 900                   | 0.6                                                | 0.00037                                              | S                      |
| 0.080                         | 179021.0.080   |           | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 3 200                   | 0.7                                                | 0.00073                                              | S                      |
| 0.100                         | 179021.0.100   |           | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 2 600                   | 0.8                                                | 0.0011                                               | S                      |
| 0.125                         | 179021.0.125   |           | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 360                     | 0.2                                                | 0.01                                                 | S                      |
| 0.160                         | 179021.0.160   |           | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 320                     | 0.2                                                | 0.02                                                 | S                      |
| 0.200                         | 179021.0.200   | ✓         | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 290                     | 0.2                                                | 0.038                                                | S                      |
| 0.250                         | 179021.0.250   | ✓         | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 280                     | 0.3                                                | 0.073                                                | S                      |
| 0.315                         | 179021.0.315   | ✓         | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 230                     | 0.3                                                | 0.016                                                | S                      |
| 0.400                         | 179021.0.400   | ✓         | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 650                     | 0.9                                                | 0.055                                                | S                      |
| 0.500                         | 179021.0.500   | ✓         | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 600                     | 1.0                                                | 0.10                                                 | S                      |
| 0.630                         | 179021.0.630   | ✓         | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 550                     | 1.1                                                | 0.19                                                 | S                      |
| 0.800                         | 179021.0.800   | ✓         | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 500                     | 1.3                                                | 0.16                                                 | S                      |
| 1                             | 179021.1       | ✓         | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 450                     | 1.4                                                | 0.28                                                 | S                      |
| 1.25                          | 179021.1.25    | ✓         | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 400                     | 1.6                                                | 0.6                                                  | S                      |
| 1.6                           | 179021.1.6     | ✓         | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 350                     | 1.8                                                | 1.0                                                  | S                      |
| 2                             | 179021.2       | ✓         | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 320                     | 2.0                                                | 1.8                                                  | S                      |
| 2.5                           | 179021.2.5     | ✓         | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 270                     | 2.1                                                | 3.0                                                  | S                      |
| 3.15                          | 179021.3.15    | ✓         | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 220                     | 2.2                                                | 6.2                                                  | S                      |
| 4                             | 179021.4       | ✓         | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 180                     | 2.3                                                | 15                                                   | S                      |
| 5                             | 179021.5       | ✓         | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 150                     | 2.4                                                | 31                                                   | S                      |
| 6.3                           | 179021.6.3     | ✓         | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 130                     | 2.6                                                | 52                                                   | S                      |
| 8                             | 179021.8       | ✓         | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 100                     | 2.8                                                | 110                                                  |                        |
| 10                            | 179021.10      | ✓         | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 100                     | 3.0                                                | 200                                                  |                        |
| 12.5                          | 179021.12.5    |           | 1.0kA @ 250V <sub>AC</sub>              | 100                     | 3.4                                                | 300                                                  |                        |
| 16                            | 179021.16      |           | 1.0kA @ 250V <sub>AC</sub>              | 100                     | 4.0                                                | 590                                                  |                        |

Weight (kg per 100) <sup>1)</sup> cosφ = 0.7 - 0.8

0.14

Units per Package

10

FC - 1 000 pieces with color code

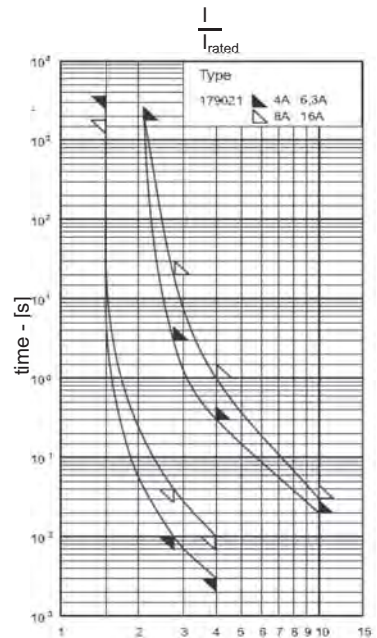
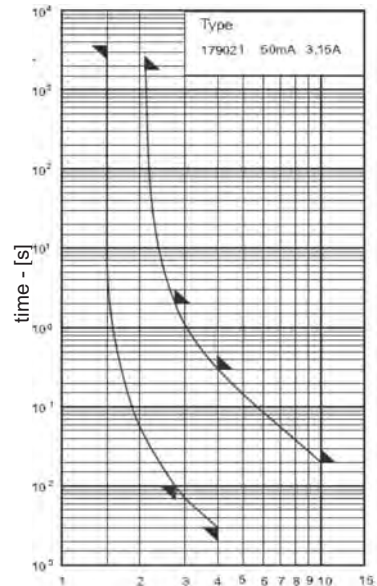
AK - with assembled leaded caps

IP - (1 000 pieces)

e.g. 179021.2.5IP

Dimensions  
[mm]

Time-Current Characteristics



| Rated Current | Fusing Time Limits |     |                   |     |                    |     |                 |       |                  |      |
|---------------|--------------------|-----|-------------------|-----|--------------------|-----|-----------------|-------|------------------|------|
|               | 1.5I <sub>n</sub>  |     | 2.1I <sub>n</sub> |     | 2.75I <sub>n</sub> |     | 4I <sub>n</sub> |       | 10I <sub>n</sub> |      |
|               | Min                | Max | Min               | Max | Min                | Max | Min             | Max   | Min              | Max  |
| 32mA - 100mA  | 1h                 | —   | —                 | 30m | 10ms               | 2s  | 3ms             | 300ms | —                | 20ms |
| 125mA - 6.3A  | 1h                 | —   | —                 | 30m | 10ms               | 3s  | 3ms             | 300ms | —                | 20ms |
| 8A - 10A      | 30m                | —   | —                 | 30m | 40ms               | 20s | 10ms            | 1s    | —                | 30ms |

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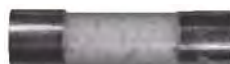
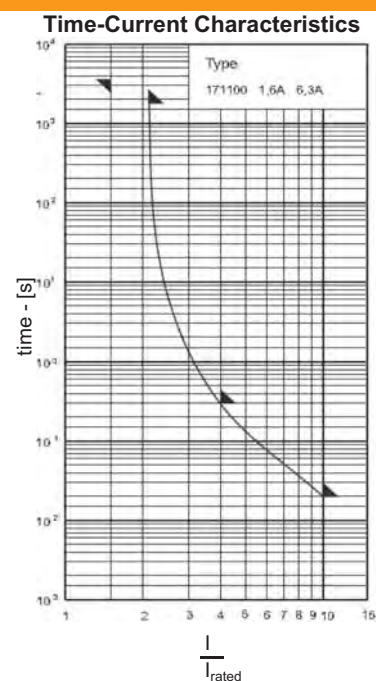
29 Fairfield Place  
West Caldwell, New Jersey 07006e-mail: info@sibafuse.com  
www.siba-fuses.us

| G                                                               | Rated Voltage<br>[Un]<br>250V <sub>AC</sub> | Rated Breaking Test<br>Voltage<br>250V <sub>AC</sub> | Capacity<br>1.5kA | Class<br>F | Standard(s)<br>DIN 41571-1 |
|-----------------------------------------------------------------|---------------------------------------------|------------------------------------------------------|-------------------|------------|----------------------------|
| <div> <div>RoHS</div> </div>                                    |                                             |                                                      |                   |            |                            |
| 5mmx20mm - Glass Tube w/Filler, Contacts - Brass, Nickel Plated |                                             |                                                      |                   |            |                            |

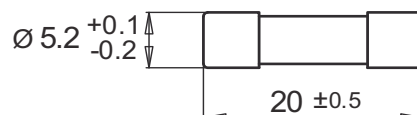
| Rated Current<br>$I_n$<br>[A] | Article Number | Rated Breaking Current<br>[A] | Voltage Drop<br>[mV] | Power Dissipation<br>@ 1.5 $I_n$<br>[W] | Pre-arcing<br>$I^2t$<br>[A <sup>2</sup> s] | Approvals |
|-------------------------------|----------------|-------------------------------|----------------------|-----------------------------------------|--------------------------------------------|-----------|
| 1.6                           | 171100.1.6     | 1.0kA @ 250V <sub>AC</sub>    | 480                  | 1.3                                     | 1.1                                        |           |
| 2                             | 171100.2       | 1.0kA @ 250V <sub>AC</sub>    | 400                  | 1.5                                     | 2                                          |           |
| 2.5                           | 171100.2.5     | 1.0kA @ 250V <sub>AC</sub>    | 400                  | 1.6                                     | 4                                          |           |
| 3.15                          | 171100.3.15    | 1.0kA @ 250V <sub>AC</sub>    | 240                  | 1.7                                     | 9                                          |           |
| 4                             | 171100.4       | 1.0kA @ 250V <sub>AC</sub>    | 240                  | 1.9                                     | 18                                         |           |
| 5                             | 171100.5       | 1.0kA @ 250V <sub>AC</sub>    | 230                  | 2.3                                     | 32                                         |           |
| 6.3                           | 171100.6.3     | 1.0kA @ 250V <sub>AC</sub>    | 170                  | 2.8                                     | 52                                         |           |
| 8                             | 171100.8       | 300A @ 250V <sub>AC</sub>     | 160                  | 3.2                                     | 100                                        |           |
| 10                            | 171100.10      | 300A @ 250V <sub>AC</sub>     | 150                  | 3.4                                     | 200                                        |           |

|                     |
|---------------------|
| Weight (kg per 100) |
| 0.14                |
| Units per Package   |
| 10                  |

IP - (1 000 pieces)  
e.g. 171100.3.15IP



Dimensions  
[mm]



| Rated Current | Fusing Time Limits |     |           |     |            |     |         |       |          |      |
|---------------|--------------------|-----|-----------|-----|------------|-----|---------|-------|----------|------|
|               | 1.5 $I_n$          |     | 2.1 $I_n$ |     | 2.75 $I_n$ |     | 4 $I_n$ |       | 10 $I_n$ |      |
|               | Min                | Max | Min       | Max | Min        | Max | Min     | Max   | Min      | Max  |
| 1.6A - 6.3A   | 1h                 | —   | —         | 30m | —          | —   | —       | 300ms | —        | 20ms |

G



Rated Voltage

[Un]

250V<sub>AC</sub>

Rated Breaking Test

Voltage

250V<sub>AC</sub>

Capacity

80A / 1kA / 300A

Class

M

Standard(s)

DIN 41571-2



5mmx20mm - Ceramic Tube w/Filler, Contacts - Brass, Nickel Plated

| Rated Current<br>$I_n$<br>[A] | Article Number | Rated Breaking Current<br>[A] | Voltage Drop<br>[mV] | Power Dissipation<br>@ 1.5I <sub>n</sub><br>[W] | Pre-arcing<br>I <sup>2</sup> t<br>[A <sup>2</sup> s] | Approvals |
|-------------------------------|----------------|-------------------------------|----------------------|-------------------------------------------------|------------------------------------------------------|-----------|
| No Filler                     |                |                               |                      |                                                 |                                                      |           |
| 0.032                         | 172000.0.032   | 80A @ 250V <sub>AC</sub>      | 560                  | 0.1                                             | 0.0055                                               |           |
| 0.040                         | 172000.0.040   | 80A @ 250V <sub>AC</sub>      | 490                  | 0.1                                             | 0.0008                                               |           |
| 0.050                         | 172000.0.050   | 80A @ 250V <sub>AC</sub>      | 440                  | 0.1                                             | 0.0013                                               |           |
| 0.063                         | 172000.0.063   | 80A @ 250V <sub>AC</sub>      | 330                  | 0.1                                             | 0.025                                                |           |
| 0.080                         | 172000.0.080   | 80A @ 250V <sub>AC</sub>      | 490                  | 0.1                                             | 0.04                                                 |           |
| 0.100                         | 172000.0.100   | 80A @ 250V <sub>AC</sub>      | 330                  | 0.1                                             | 0.07                                                 |           |
| 0.125                         | 172000.0.125   | 80A @ 250V <sub>AC</sub>      | 230                  | 0.1                                             | 0.018                                                |           |
| 0.160                         | 172000.0.160   | 80A @ 250V <sub>AC</sub>      | 220                  | 0.1                                             | 0.036                                                |           |
| 0.200                         | 172000.0.200   | 80A @ 250V <sub>AC</sub>      | 190                  | 0.2                                             | 0.07                                                 |           |
| 0.250                         | 172000.0.250   | 80A @ 250V <sub>AC</sub>      | 150                  | 0.2                                             | 0.19                                                 |           |
| 0.315                         | 172000.0.315   | 80A @ 250V <sub>AC</sub>      | 140                  | 0.2                                             | 0.35                                                 |           |
| 0.400                         | 172000.0.400   | 80A @ 250V <sub>AC</sub>      | 130                  | 0.2                                             | 0.49                                                 |           |
| 0.500                         | 172000.0.500   | 80A @ 250V <sub>AC</sub>      | 120                  | 0.2                                             | 0.9                                                  |           |
| 0.630                         | 172000.0.630   | 80A @ 250V <sub>AC</sub>      | 110                  | 0.2                                             | 1.4                                                  |           |
| 0.700                         | 172000.0.700   | 80A @ 250V <sub>AC</sub>      | 140                  | 0.3                                             | 1.6                                                  |           |
| 0.800                         | 172000.0.800   | 80A @ 250V <sub>AC</sub>      | 100                  | 0.3                                             | 3.2                                                  |           |
| 1                             | 172000.1       | 80A @ 250V <sub>AC</sub>      | 90                   | 0.3                                             | 6.5                                                  |           |
| 1.25                          | 172000.1.25    | 80A @ 250V <sub>AC</sub>      | 80                   | 0.3                                             | 5                                                    |           |
| with Filler                   |                |                               |                      |                                                 |                                                      |           |
| 1.4                           | 172100.1.4     | 1.0kA @ 250V <sub>AC</sub>    | 160                  | 0.7                                             | 2.8                                                  |           |
| 1.5                           | 172100.1.5     | 1.0kA @ 250V <sub>AC</sub>    | 160                  | 0.8                                             | 3.0                                                  |           |
| 1.6                           | 172100.1.6     | 1.0kA @ 250V <sub>AC</sub>    | 150                  | 0.8                                             | 6.1                                                  |           |
| 2                             | 172100.2       | 1.0kA @ 250V <sub>AC</sub>    | 130                  | 0.8                                             | 5.2                                                  |           |
| 2.5                           | 172100.2.5     | 1.0kA @ 250V <sub>AC</sub>    | 110                  | 0.9                                             | 10                                                   |           |
| 3.15                          | 172100.3.15    | 1.0kA @ 250V <sub>AC</sub>    | 100                  | 1.0                                             | 20                                                   |           |
| 4                             | 172100.4       | 1.0kA @ 250V <sub>AC</sub>    | 90                   | 1.1                                             | 37                                                   |           |
| 5                             | 172100.5       | 1.0kA @ 250V <sub>AC</sub>    | 90                   | 1.3                                             | 72                                                   |           |
| 6.3                           | 172100.6.3     | 1.0kA @ 250V <sub>AC</sub>    | 90                   | 1.6                                             | 130                                                  |           |
| 8                             | 172100.8       | 300A @ 250V <sub>AC</sub>     | 90                   | 2.0                                             | 230                                                  |           |
| 10                            | 172100.10      | 300A @ 250V <sub>AC</sub>     | 90                   | 2.5                                             | 370                                                  |           |

Weight (kg per 100)

0.14

Units per Package

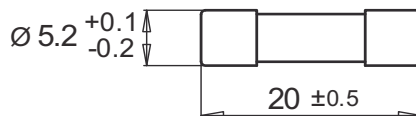
10

IP - (1 000 pieces)

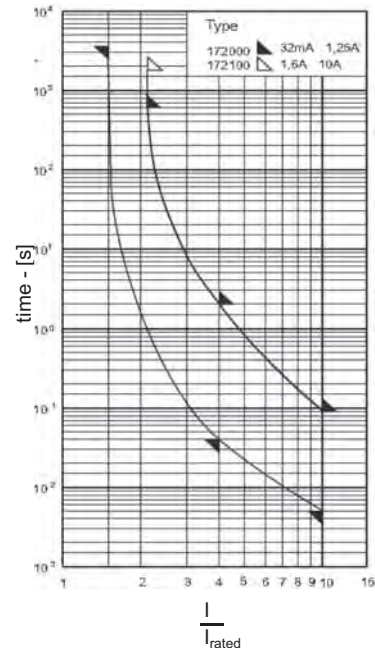
e.g. 172100.3.15IP

Dimensions

[mm]



Time-Current Characteristics



| Rated Current | Fusing Time Limits |     |                   |     |                    |     |                 |     |                  |      |
|---------------|--------------------|-----|-------------------|-----|--------------------|-----|-----------------|-----|------------------|------|
|               | 1.5I <sub>n</sub>  |     | 2.1I <sub>n</sub> |     | 2.75I <sub>n</sub> |     | 4I <sub>n</sub> |     | 10I <sub>n</sub> |      |
|               | Min                | Max | Min               | Max | Min                | Max | Min             | Max | Min              | Max  |
| 32mA - 1.25A  | 1h                 | —   | —                 | 10m | —                  | —   | 40ms            | 2s  | 5ms              | 90ms |
| 1.6A - 10A    | 1h                 | —   | —                 | 30m | —                  | —   | 40ms            | 2s  | 5ms              | 20ms |

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G



Rated Voltage

[Un]  
250V<sub>AC</sub>

Rated Breaking Test

Voltage Capacity  
250V<sub>AC</sub> 1.5kA

Class

M



Standard(s)

DIN 41571-2

5mmx20mm - Ceramic Tube w/Filler, Contacts - Brass, Nickel Plated

| Rated Current<br>$I_n$<br>[A] | Article Number | Rated Breaking Current<br>[A] | Voltage Drop<br>[mV] | Power Dissipation<br>@ 1.5 $I_n$<br>[W] | Pre-arcing<br>$I^2t$<br>[A <sup>2</sup> s] | Approvals |
|-------------------------------|----------------|-------------------------------|----------------------|-----------------------------------------|--------------------------------------------|-----------|
| 0.125                         | 172200.0.125   | 1.5kA @ 250V <sub>AC</sub>    | 230                  | 0.1                                     | 0.018                                      |           |
| 0.160                         | 172200.0.160   | 1.5kA @ 250V <sub>AC</sub>    | 220                  | 0.1                                     | 0.036                                      |           |
| 0.200                         | 172200.0.200   | 1.5kA @ 250V <sub>AC</sub>    | 190                  | 0.2                                     | 0.07                                       |           |
| 0.250                         | 172200.0.250   | 1.5kA @ 250V <sub>AC</sub>    | 150                  | 0.2                                     | 0.19                                       |           |
| 0.315                         | 172200.0.315   | 1.5kA @ 250V <sub>AC</sub>    | 140                  | 0.2                                     | 0.35                                       |           |
| 0.400                         | 172200.0.400   | 1.5kA @ 250V <sub>AC</sub>    | 130                  | 0.2                                     | 0.49                                       |           |
| 0.500                         | 172200.0.500   | 1.5kA @ 250V <sub>AC</sub>    | 120                  | 0.2                                     | 0.09                                       |           |
| 0.630                         | 172200.0.630   | 1.5kA @ 250V <sub>AC</sub>    | 110                  | 0.2                                     | 0.6                                        |           |
| 0.800                         | 172200.0.800   | 1.5kA @ 250V <sub>AC</sub>    | 140                  | 0.3                                     | 1.0                                        |           |
| 1                             | 172200.1       | 1.5kA @ 250V <sub>AC</sub>    | 90                   | 0.3                                     | 1.5                                        |           |
| 1.25                          | 172200.1.25    | 1.5kA @ 250V <sub>AC</sub>    | 80                   | 0.3                                     | 3.1                                        |           |
| 1.6                           | 172200.1.6     | 1.5kA @ 250V <sub>AC</sub>    | 150                  | 0.8                                     | 6.1                                        |           |
| 2                             | 172200.2       | 1.5kA @ 250V <sub>AC</sub>    | 130                  | 0.8                                     | 5.2                                        |           |
| 2.5                           | 172200.2.5     | 1.5kA @ 250V <sub>AC</sub>    | 110                  | 0.9                                     | 10                                         |           |
| 3.15                          | 172200.3.15    | 1.5kA @ 250V <sub>AC</sub>    | 100                  | 1.0                                     | 20                                         |           |
| 4                             | 172200.4       | 1.5kA @ 250V <sub>AC</sub>    | 90                   | 1.1                                     | 37                                         |           |
| 5                             | 172200.5       | 1.5kA @ 250V <sub>AC</sub>    | 90                   | 1.3                                     | 72                                         |           |
| 6.3                           | 172200.6.3     | 1.5kA @ 250V <sub>AC</sub>    | 90                   | 1.6                                     | 130                                        |           |
| 8                             | 172200.8       | 1.5kA @ 250V <sub>AC</sub>    | 90                   | 2.0                                     | 230                                        |           |
| 10                            | 172200.10      | 1.5kA @ 250V <sub>AC</sub>    | 90                   | 2.5                                     | 370                                        |           |

Weight (kg per 100)

0.14

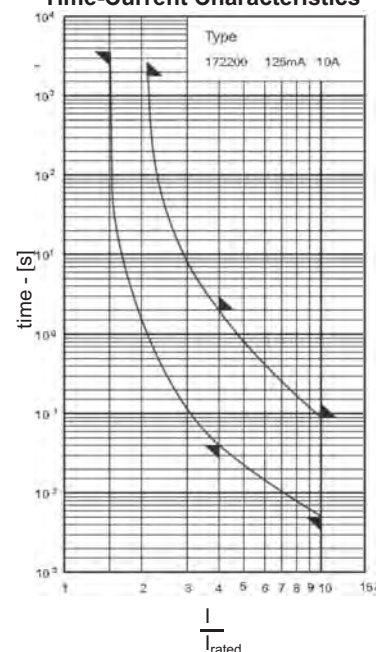
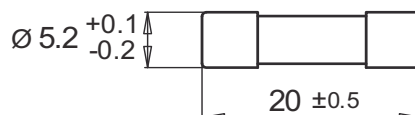
Units per Package

10

IP - (1 000 pieces)

e.g. 172200.10IP

Time-Current Characteristics

Dimensions  
[mm]

| Rated Current | Fusing Time Limits |     |           |     |            |     |         |     |          |      |
|---------------|--------------------|-----|-----------|-----|------------|-----|---------|-----|----------|------|
|               | 1.5 $I_n$          |     | 2.1 $I_n$ |     | 2.75 $I_n$ |     | 4 $I_n$ |     | 10 $I_n$ |      |
|               | Min                | Max | Min       | Max | Min        | Max | Min     | Max | Min      | Max  |
| 125mA - 10A   | 1h                 | —   | —         | 30m | —          | —   | 40ms    | 2s  | 5ms      | 90ms |

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G



RoHS



Rated Voltage

[Un]  
250V<sub>AC</sub>

Rated Breaking Test

Voltage  
250V<sub>AC</sub> Capacity  
35A / 10I<sub>rat</sub>

Class

T



Standard(s)

IEC 60127-2/3  
EN 60127-2/3  
VDE 0820 - 2/3

5mmx20mm - Glass Tube, Contacts - Brass, Nickel Plated

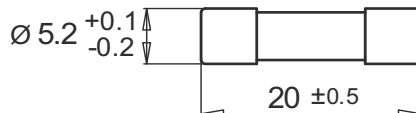
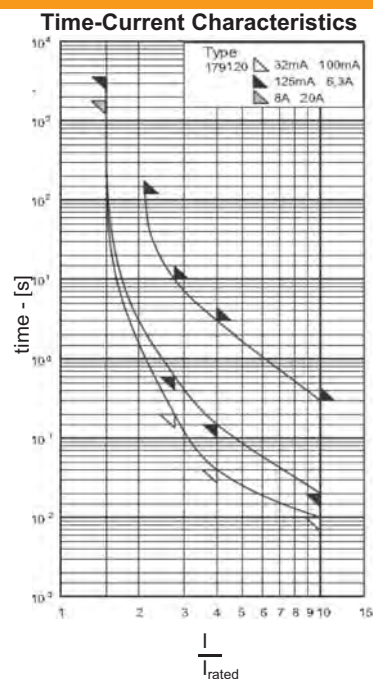
| Rated Current<br>I <sub>n</sub><br>[A] | Article Number | UL<br>rec | Rated Breaking<br>Current<br>[A] | Voltage<br>Drop<br>[mV] | Power<br>Dissipation<br>@ 1.5I <sub>n</sub><br>[W] | Pre-arcing<br>I <sup>2</sup> t<br>[A <sup>2</sup> s] | Approvals<br>S - Semko<br>V - VDE |
|----------------------------------------|----------------|-----------|----------------------------------|-------------------------|----------------------------------------------------|------------------------------------------------------|-----------------------------------|
| 0.032                                  | 179120.0.032   | ✓         | 35A @ 250V <sub>AC</sub>         | 3 000                   | 0.2                                                | 0.01                                                 | S V                               |
| 0.040                                  | 179120.0.040   | ✓         | 35A @ 250V <sub>AC</sub>         | 2 000                   | 0.2                                                | 0.02                                                 | S V                               |
| 0.050                                  | 179120.0.050   | ✓         | 35A @ 250V <sub>AC</sub>         | 1 500                   | 0.2                                                | 0.035                                                | S V                               |
| 0.063                                  | 179120.0.063   | ✓         | 35A @ 250V <sub>AC</sub>         | 1 000                   | 0.2                                                | 0.05                                                 | S V                               |
| 0.080                                  | 179120.0.080   | ✓         | 35A @ 250V <sub>AC</sub>         | 800                     | 0.2                                                | 0.12                                                 | S V                               |
| 0.100                                  | 179120.0.100   | ✓         | 35A @ 250V <sub>AC</sub>         | 700                     | 0.3                                                | 0.16                                                 | S V                               |
| 0.125                                  | 179120.0.125   | ✓         | 35A @ 250V <sub>AC</sub>         | 600                     | 0.3                                                | 0.24                                                 | S V                               |
| 0.160                                  | 179120.0.160   | ✓         | 35A @ 250V <sub>AC</sub>         | 600                     | 0.3                                                | 0.4                                                  | S V                               |
| 0.200                                  | 179120.0.200   | ✓         | 35A @ 250V <sub>AC</sub>         | 500                     | 0.3                                                | 0.7                                                  | S V                               |
| 0.250                                  | 179120.0.250   | ✓         | 35A @ 250V <sub>AC</sub>         | 400                     | 0.3                                                | 1.4                                                  | S V                               |
| 0.315                                  | 179120.0.315   | ✓         | 35A @ 250V <sub>AC</sub>         | 140                     | 0.2                                                | 0.35                                                 | S V                               |
| 0.400                                  | 179120.0.400   | ✓         | 35A @ 250V <sub>AC</sub>         | 130                     | 0.2                                                | 0.49                                                 | S V                               |
| 0.500                                  | 179120.0.500   | ✓         | 35A @ 250V <sub>AC</sub>         | 120                     | 0.2                                                | 0.9                                                  | S V                               |
| 0.630                                  | 179120.0.630   | ✓         | 35A @ 250V <sub>AC</sub>         | 110                     | 0.2                                                | 1.4                                                  | S V                               |
| 0.700                                  | 179120.0.700   |           | 35A @ 250V <sub>AC</sub>         | 140                     | 0.3                                                | 1.6                                                  |                                   |
| 0.800                                  | 179120.0.800   | ✓         | 35A @ 250V <sub>AC</sub>         | 100                     | 0.3                                                | 3.2                                                  | S V                               |
| 1                                      | 179120.1       | ✓         | 35A @ 250V <sub>AC</sub>         | 90                      | 0.3                                                | 6.5                                                  | S V                               |
| 1.25                                   | 179120.1.25    | ✓         | 35A @ 250V <sub>AC</sub>         | 80                      | 0.3                                                | 5.0                                                  | S V                               |
| 1.4                                    | 179120.1.4     |           | 35A @ 250V <sub>AC</sub>         | 80                      | 0.4                                                | 5.2                                                  |                                   |
| 1.5                                    | 179120.1.5     |           | 35A @ 250V <sub>AC</sub>         | 80                      | 0.4                                                | 8.5                                                  |                                   |
| 1.6                                    | 179120.1.6     | ✓         | 35A @ 250V <sub>AC</sub>         | 80                      | 0.4                                                | 10                                                   | S V                               |
| 2                                      | 179120.2       | ✓         | 35A @ 250V <sub>AC</sub>         | 80                      | 0.5                                                | 20                                                   | S V                               |
| 2.5                                    | 179120.2.5     | ✓         | 35A @ 250V <sub>AC</sub>         | 80                      | 0.6                                                | 26                                                   | S V                               |
| 3.15                                   | 179120.3.15    | ✓         | 35A @ 250V <sub>AC</sub>         | 80                      | 0.6                                                | 44                                                   | S V                               |
| 3.5                                    | 179120.3.5     |           | 35A @ 250V <sub>AC</sub>         | 80                      | 0.8                                                | 50                                                   |                                   |
| 4                                      | 179120.4       | ü         | 40A @ 250V <sub>AC</sub>         | 80                      | 0.8                                                | 72                                                   | S V                               |
| 5                                      | 179120.5       | ü         | 50A @ 250V <sub>AC</sub>         | 80                      | 1.2                                                | 130                                                  | S V                               |
| 6.3                                    | 179120.6.3     | ü         | 63A @ 250V <sub>AC</sub>         | 70                      | 1.3                                                | 230                                                  | S V                               |
| 8                                      | 179120.8       |           | 80A @ 250V <sub>AC</sub>         | 70                      | 1.8                                                | 240                                                  |                                   |
| 10                                     | 179120.10      |           | 100A @ 250V <sub>AC</sub>        | 70                      | 2.4                                                | 380                                                  |                                   |
| 12.5                                   | 179120.12.5    |           | 125A @ 250V <sub>AC</sub>        | 70                      | 3.0                                                | 650                                                  |                                   |
| 16                                     | 179120.16      |           | 160A @ 250V <sub>AC</sub>        | 70                      | 3.2                                                | 1 300                                                |                                   |
| 20                                     | 179120.20      |           | 200A @ 250V <sub>AC</sub>        | 70                      | 3.5                                                | 2 200                                                |                                   |

Weight (kg per 100)

0.14

Units per Package

10

Dimensions  
[mm]

FC - 1 000 pieces with color code

AK - with assembled leaded caps

IP - (1 000 pieces)

e.g. 179120.1.25IP

| Rated Current | Fusing Time Limits |     |                   |     |                    |     |                 |     |                  |       |
|---------------|--------------------|-----|-------------------|-----|--------------------|-----|-----------------|-----|------------------|-------|
|               | 1.5I <sub>n</sub>  |     | 2.1I <sub>n</sub> |     | 2.75I <sub>n</sub> |     | 4I <sub>n</sub> |     | 10I <sub>n</sub> |       |
|               | Min                | Max | Min               | Max | Min                | Max | Min             | Max | Min              | Max   |
| 32mA - 100mA  | 1h                 | —   | —                 | 2m  | 200ms              | 10s | 40ms            | 3s  | 10ms             | 300ms |
| 125mA - 6.3A  | 1h                 | —   | —                 | 2m  | 600ms              | 10s | 150ms           | 3s  | 20ms             | 300ms |
| 8A - 20A      | 30m                | —   | —                 | 2m  | 600ms              | 10s | 150ms           | 3s  | 20ms             | 300ms |

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|   |                                                                                   |                                                    |                                                             |                         |                                                                                     |                                                                       |
|---|-----------------------------------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------|-------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| G |  | <b>Rated Voltage</b><br>[Un]<br>250V <sub>AC</sub> | <b>Rated Breaking Test</b><br>Voltage<br>250V <sub>AC</sub> | <b>Capacity</b><br>150A | <b>Class</b><br>T                                                                   | <b>Standard(s)</b><br>IEC 60127-2/6<br>EN 60127-2/6<br>VDE 0820 - 2/6 |
|   |  |                                                    |                                                             |                         |  |                                                                       |

5mmx20mm - Glass Tube, Contacts - Brass, Nickel Plated

| Rated Current<br>$I_n$<br>[A] | Article Number | Rated Breaking Current<br>[A] | Voltage Drop<br>[mV] | Power Dissipation<br>@ 1.5 $I_n$<br>[W] | Pre-arcing<br>$I^2t$<br>[A <sup>2</sup> s] | Approvals<br>S - Semko<br>V - VDE |
|-------------------------------|----------------|-------------------------------|----------------------|-----------------------------------------|--------------------------------------------|-----------------------------------|
| 0.032                         | 179150.0.032   | 150A @ 250V <sub>AC</sub>     | 3 000                | 0.2                                     | 0.01                                       |                                   |
| 0.040                         | 179150.0.040   | 150A @ 250V <sub>AC</sub>     | 2 000                | 0.2                                     | 0.02                                       |                                   |
| 0.050                         | 179150.0.050   | 150A @ 250V <sub>AC</sub>     | 1 500                | 0.2                                     | 0.035                                      |                                   |
| 0.063                         | 179150.0.063   | 150A @ 250V <sub>AC</sub>     | 1 000                | 0.2                                     | 0.05                                       |                                   |
| 0.080                         | 179150.0.080   | 150A @ 250V <sub>AC</sub>     | 800                  | 0.2                                     | 0.12                                       |                                   |
| 0.100                         | 179150.0.100   | 150A @ 250V <sub>AC</sub>     | 700                  | 0.3                                     | 0.16                                       |                                   |
| 0.125                         | 179150.0.125   | 150A @ 250V <sub>AC</sub>     | 600                  | 0.3                                     | 0.24                                       |                                   |
| 0.160                         | 179150.0.160   | 150A @ 250V <sub>AC</sub>     | 600                  | 0.3                                     | 0.4                                        |                                   |
| 0.200                         | 179150.0.200   | 150A @ 250V <sub>AC</sub>     | 500                  | 0.3                                     | 0.7                                        |                                   |
| 0.250                         | 179150.0.250   | 150A @ 250V <sub>AC</sub>     | 400                  | 0.3                                     | 1.4                                        |                                   |
| 0.315                         | 179150.0.315   | 150A @ 250V <sub>AC</sub>     | 140                  | 0.2                                     | 0.35                                       |                                   |
| 0.400                         | 179150.0.400   | 150A @ 250V <sub>AC</sub>     | 130                  | 0.2                                     | 0.49                                       |                                   |
| 0.500                         | 179150.0.500   | 150A @ 250V <sub>AC</sub>     | 120                  | 0.2                                     | 0.9                                        | S V                               |
| 0.630                         | 179150.0.630   | 150A @ 250V <sub>AC</sub>     | 110                  | 0.2                                     | 1.4                                        | S V                               |
| 0.800                         | 179150.0.800   | 150A @ 250V <sub>AC</sub>     | 100                  | 0.3                                     | 3.2                                        | S V                               |
| 1                             | 179150.1       | 150A @ 250V <sub>AC</sub>     | 90                   | 0.3                                     | 6.5                                        | S V                               |
| 1.25                          | 179150.1.25    | 150A @ 250V <sub>AC</sub>     | 80                   | 0.3                                     | 5.0                                        | S V                               |
| 1.6                           | 179150.1.6     | 150A @ 250V <sub>AC</sub>     | 80                   | 0.4                                     | 10                                         | S V                               |
| 2                             | 179150.2       | 150A @ 250V <sub>AC</sub>     | 80                   | 0.5                                     | 20                                         | S V                               |
| 2.5                           | 179150.2.5     | 150A @ 250V <sub>AC</sub>     | 80                   | 0.6                                     | 26                                         | S V                               |
| 3.15                          | 179150.3.15    | 150A @ 250V <sub>AC</sub>     | 80                   | 0.6                                     | 44                                         | S V                               |
| 4                             | 179150.4       | 150A @ 250V <sub>AC</sub>     | 80                   | 0.8                                     | 72                                         | S V                               |
| 5                             | 179150.5       | 150A @ 250V <sub>AC</sub>     | 80                   | 1.2                                     | 130                                        |                                   |
| 6.3                           | 179150.6.3     | 150A @ 250V <sub>AC</sub>     | 70                   | 1.3                                     | 230                                        |                                   |
| 8                             | 179150.8       | 150A @ 250V <sub>AC</sub>     | 70                   | 1.8                                     | 240                                        |                                   |
| 10                            | 179150.10      | 150A @ 250V <sub>AC</sub>     | 70                   | 2.4                                     | 380                                        |                                   |

Weight (kg per 100)

0.14

Units per Package

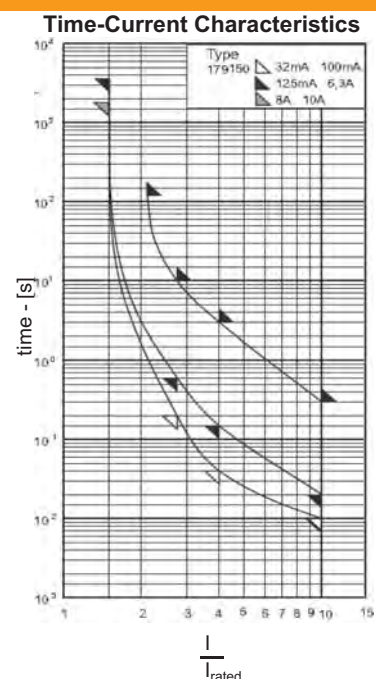
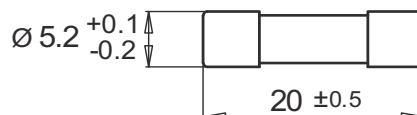
10

IP - (1 000 pieces)

e.g. 179150.0.63IP



Dimensions  
[mm]



| Rated Current | Fusing Time Limits |     |           |     |            |     |         |     |          |       |
|---------------|--------------------|-----|-----------|-----|------------|-----|---------|-----|----------|-------|
|               | 1.5 $I_n$          |     | 2.1 $I_n$ |     | 2.75 $I_n$ |     | 4 $I_n$ |     | 10 $I_n$ |       |
|               | Min                | Max | Min       | Max | Min        | Max | Min     | Max | Min      | Max   |
| 32mA - 100mA  | 1h                 | —   | —         | 2m  | 200ms      | 10s | 40ms    | 3s  | 10ms     | 300ms |
| 125mA - 6.3A  | 1h                 | —   | —         | 2m  | 600ms      | 10s | 150ms   | 3s  | 20ms     | 300ms |
| 8A - 100A     | 30m                | —   | —         | 2m  | 600ms      | 10s | 150ms   | 3s  | 20ms     | 300ms |

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G



RoHS



Rated Voltage

[Un]

250V<sub>AC</sub>

Rated Breaking Test

Voltage

250V<sub>AC</sub>

Capacity

1.5kA

Class

T

Standard(s)

IEC 60127-2/5

EN 60127-2/5

VDE 0820 - 2/5

5mmx20mm - Ceramic Tube w/Filler, Contacts - Brass, Nickel Plated

| Rated Current<br>$I_n$<br>[A] | Article Number           | UL<br>rec | Rated Breaking<br>Current<br>[A]        | Voltage<br>Drop<br>[mV] | Power<br>Dissipation<br>@ 1.5I <sub>n</sub><br>[W] | Pre-arcing<br>I <sup>2</sup> t<br>[A <sup>2</sup> s] | Approvals<br>S - Semko<br>V - VDE |
|-------------------------------|--------------------------|-----------|-----------------------------------------|-------------------------|----------------------------------------------------|------------------------------------------------------|-----------------------------------|
| 0.050                         | 179200.0.050             | ✓         | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 1 500                   | 0.2                                                | 0.02                                                 |                                   |
| 0.063                         | 179200.0.063             | ✓         | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 1 000                   | 0.2                                                | 0.05                                                 |                                   |
| 0.080                         | 179200.0.080             | ✓         | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 2 800                   | 0.6                                                | 0.02                                                 |                                   |
| 0.100                         | 179200.0.100             | ✓         | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 2 300                   | 0.6                                                | 0.02                                                 |                                   |
| 0.125                         | 179200.0.125             | ✓         | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 2 200                   | 0.8                                                | 0.045                                                |                                   |
| 0.160                         | 179200.0.160             | ✓         | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 2 100                   | 0.9                                                | 0.08                                                 |                                   |
| 0.200                         | 179200.0.200             | ✓         | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 1 800                   | 0.9                                                | 0.14                                                 |                                   |
| 0.250                         | 179200.0.250             | ✓         | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 1 500                   | 1.0                                                | 0.25                                                 |                                   |
| 0.315                         | 179200.0.315             | ✓         | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 1 000                   | 1.0                                                | 0.45                                                 |                                   |
| 0.400                         | 179200.0.400             | ✓         | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 850                     | 1.0                                                | 0.8                                                  |                                   |
| 0.500                         | 179200.0.500             | ✓         | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 350                     | 0.4                                                | 0.35                                                 |                                   |
| 0.630                         | 179200.0.630             | ✓         | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 300                     | 0.4                                                | 0.6                                                  |                                   |
| 0.800                         | 179200.0.800             | ✓         | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 300                     | 0.6                                                | 1.0                                                  |                                   |
| 1                             | 179200.1 <sup>3</sup>    | ✓         | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 250                     | 0.8                                                | 1.5                                                  | S V                               |
| 1.25                          | 179200.1.25 <sup>3</sup> | ✓         | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 200                     | 0.8                                                | 3.1                                                  | S V                               |
| 1.6                           | 179200.1.6 <sup>3</sup>  | ✓         | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 150                     | 0.8                                                | 6.1                                                  | S V                               |
| 2                             | 179200.2 <sup>3</sup>    | ✓         | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 130                     | 0.8                                                | 5.2                                                  | S V                               |
| 2.5                           | 179200.2.5 <sup>3</sup>  | ✓         | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 110                     | 0.9                                                | 10                                                   | S V                               |
| 3.15                          | 179200.3.15 <sup>3</sup> | ✓         | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 100                     | 1.0                                                | 20                                                   | S V                               |
| 4                             | 179200.4 <sup>3</sup>    | ✓         | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 90                      | 1.1                                                | 37                                                   | S V                               |
| 5                             | 179200.5                 | ✓         | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 90                      | 1.3                                                | 72                                                   | S V                               |
| 6.3                           | 179200.6.3               | ✓         | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 90                      | 1.6                                                | 130                                                  | S V                               |
| 8                             | 179200.8                 | ✓         | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 90                      | 2.0                                                | 230                                                  |                                   |
| 10                            | 179120.10                | ✓         | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 90                      | 2.5                                                | 370                                                  |                                   |
| 12.5                          | 179200.12.5              |           | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 70                      | 3.1                                                | 630                                                  |                                   |
| 16                            | 179200.16                |           | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 70                      | 3.9                                                | 1 500                                                |                                   |

Weight (kg per 100)<sup>3)</sup> UL Rec. 1.5kA@300V<sub>DC</sub>, L/R = Res - 1A - 10A0.14<sup>1)</sup> cosφ = 0.7 - 0.8

Units per Package

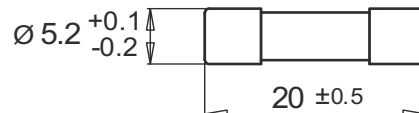
10

FC - 1 000 pieces with color code

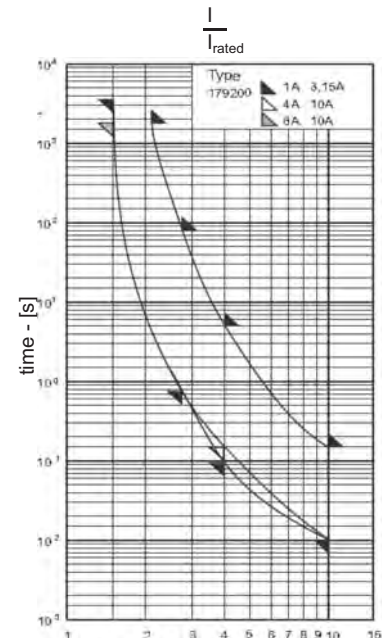
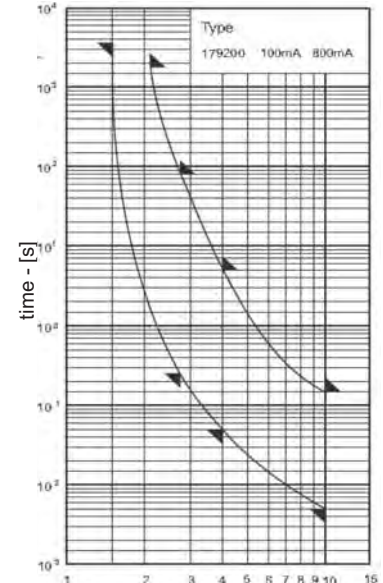
AK - with assembled leaded caps

IP - (1 000 pieces)

e.g. 179200.3.15IP

Dimensions  
[mm]

Time-Current Characteristics



| Rated Current | Fusing Time Limits |     |                   |     |                    |     |                 |     |                  |       |
|---------------|--------------------|-----|-------------------|-----|--------------------|-----|-----------------|-----|------------------|-------|
|               | 1.5I <sub>n</sub>  |     | 2.1I <sub>n</sub> |     | 2.75I <sub>n</sub> |     | 4I <sub>n</sub> |     | 10I <sub>n</sub> |       |
|               | Min                | Max | Min               | Max | Min                | Max | Min             | Max | Min              | Max   |
| 100mA - 800mA | 1h                 | —   | —                 | 30m | 200ms              | 80s | 50ms            | 5s  | 5s               | 150ms |
| 1A - 3.15A    | 1h                 | —   | —                 | 30m | 750ms              | 80s | 95ms            | 5s  | 10ms             | 150ms |
| 4A - 6.3A     | 1h                 | —   | —                 | 30m | 750ms              | 80s | 150ms           | 5s  | 10ms             | 150ms |
| 8A - 16A      | 30m                | —   | —                 | 30m | 750ms              | 80s | 150ms           | 5s  | 10ms             | 150ms |

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G



RoHS

Rated Voltage

[Un]  
250V<sub>AC</sub>

Rated Breaking Test

Voltage  
250V<sub>AC</sub> Capacity  
35A

Class

T



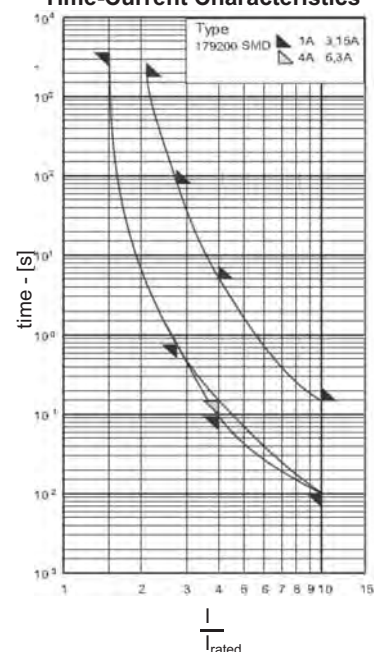
Standard(s)

IEC 60127-2/5  
EN 60127-2/5  
VDE 0820 - 2/5

5mmx20mm - Ceramic Tube w/Filler, Contacts - Brass, Gold Plated

| Rated Current<br>$I_n$<br>[A] | Article Number | UL<br>rec                      | Rated Breaking Current<br>[A]           | Voltage Drop<br>[mV] | Power Dissipation<br>@ 1.5 $I_n$<br>[W] | Pre-arcing<br>$I^2t$<br>[A <sup>2</sup> s] |
|-------------------------------|----------------|--------------------------------|-----------------------------------------|----------------------|-----------------------------------------|--------------------------------------------|
| 1                             | 179200.1SMD    | ✓                              | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 250                  | 0.8                                     | 1.5                                        |
| 1.25                          | 179200.1.25SMD | ✓                              | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 200                  | 0.8                                     | 3.1                                        |
| 1.6                           | 179200.1.6SMD  | ✓                              | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 150                  | 0.8                                     | 6.1                                        |
| 2                             | 179200.2SMD    | ✓                              | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 130                  | 0.8                                     | 5.2                                        |
| 2.5                           | 179200.2.5SMD  | ✓                              | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 110                  | 0.9                                     | 10                                         |
| 3.15                          | 179200.3.15SMD | ✓                              | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 100                  | 1.0                                     | 20                                         |
| 4                             | 179200.4SMD    | ✓                              | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 90                   | 1.1                                     | 37                                         |
| 5                             | 179200.5SMD    | ✓                              | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 90                   | 1.3                                     | 72                                         |
| 6.3                           | 179200.6.3SMD  | ✓                              | 1.5kA @ 250V <sub>AC</sub> <sup>1</sup> | 90                   | 1.6                                     | 130                                        |
| Weight (kg per 100)           |                | <sup>1)</sup> cosφ = 0.7 - 0.8 |                                         |                      |                                         |                                            |
| Units per Package             |                |                                |                                         |                      |                                         |                                            |

Time-Current Characteristics

Dimensions  
[mm]

| Rated Current | Fusing Time Limits |     |           |     |            |     |         |     |          |       |
|---------------|--------------------|-----|-----------|-----|------------|-----|---------|-----|----------|-------|
|               | 1.5 $I_n$          |     | 2.1 $I_n$ |     | 2.75 $I_n$ |     | 4 $I_n$ |     | 10 $I_n$ |       |
|               | Min                | Max | Min       | Max | Min        | Max | Min     | Max | Min      | Max   |
| 1A - 3.15A    | 1h                 | —   | —         | 30m | 750ms      | 80s | 95ms    | 5s  | 10ms     | 150ms |
| 4A - 6.3A     | 1h                 | —   | —         | 30m | 750ms      | 80s | 150ms   | 5s  | 10ms     | 150ms |

G



Rated Voltage

[Un]

250V<sub>AC</sub>

Rated Breaking Test

Voltage

250V<sub>AC</sub>

Capacity

300A

Class

T



Standard(s)

DIN 41571-3

5mmx20mm - Glass Tube w/Filler, Contacts - Brass, Nickel Plated

| Rated Current<br>$I_n$<br>[A] | Article Number | Rated Breaking Current<br>[A] | Voltage Drop<br>[mV] | Power Dissipation<br>@ 1.5I <sub>n</sub><br>[W] | Pre-arcing<br>I <sup>2</sup> t<br>[A <sup>2</sup> s] | Approvals |
|-------------------------------|----------------|-------------------------------|----------------------|-------------------------------------------------|------------------------------------------------------|-----------|
| 1.6                           | 173100.1.6     | 300A @ 250Vac                 | 300 <sup>1</sup>     | 0.8                                             | 16                                                   |           |
| 2                             | 173100.2       | 300A @ 250Vac                 | 190 <sup>1</sup>     | 0.9                                             | 26                                                   |           |
| 2.5                           | 173100.2.5     | 300A @ 250Vac                 | 180 <sup>1</sup>     | 1.1                                             | 45                                                   |           |
| 3.15                          | 173100.3.15    | 300A @ 250Vac                 | 140                  | 1.3                                             | 72                                                   |           |
| 4                             | 173100.4       | 300A @ 250Vac                 | 135                  | 1.4                                             | 130                                                  |           |
| 5                             | 173100.5       | 300A @ 250Vac                 | 130                  | 1.2                                             | 150                                                  |           |
| 6.3                           | 173100.6.3     | 300A @ 250Vac                 | 125                  | 1.3                                             | 240                                                  |           |
| 8                             | 173100.8       | 300A @ 250Vac                 | 120                  | 1.6                                             | 390                                                  |           |
| 10                            | 179120.10      | 300A @ 250Vac                 | 115                  | 1.9                                             | 620                                                  |           |
| 12.5                          | 173100.12.5    | 300A @ 250V <sub>AC</sub>     | 100                  | 2.8                                             | 1 150                                                |           |
| 15                            | 173100.15      | 300A @ 250Vac                 | 80                   | 3.3                                             | 1 800                                                |           |
| 16                            | 173100.16      | 300A @ 250V <sub>AC</sub>     | 80                   | 3.8                                             | 1 800                                                |           |

Weight (kg per 100)

0.13

Units per Package

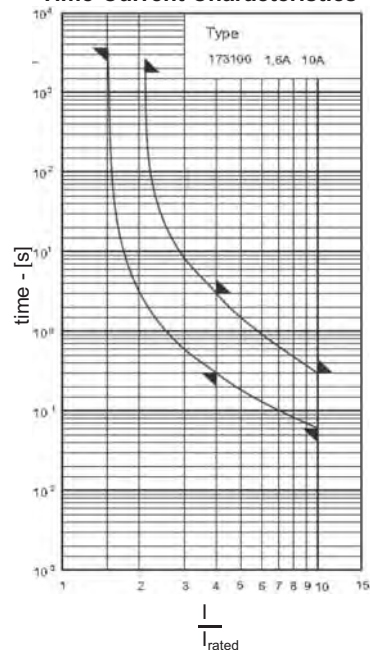
100

IP - (1 000 pieces)

e.g. 173100.1.6IP

<sup>1)</sup> Maximum according to EN 60127-2/5

Time-Current Characteristics

Dimensions  
[mm]

| Rated Current | Fusing Time Limits |     |                   |     |                    |     |                 |     |                  |       |
|---------------|--------------------|-----|-------------------|-----|--------------------|-----|-----------------|-----|------------------|-------|
|               | 1.5I <sub>n</sub>  |     | 2.1I <sub>n</sub> |     | 2.75I <sub>n</sub> |     | 4I <sub>n</sub> |     | 10I <sub>n</sub> |       |
|               | Min                | Max | Min               | Max | Min                | Max | Min             | Max | Min              | Max   |
| 1.6A - 16A    | 1h                 | —   | —                 | 30m | —                  | —   | 300ms           | 3s  | 60ms             | 300ms |

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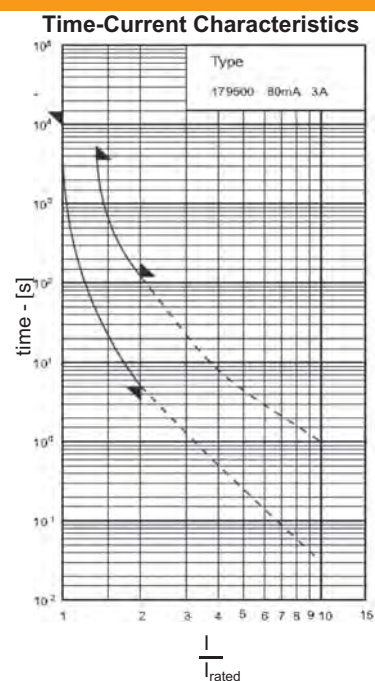
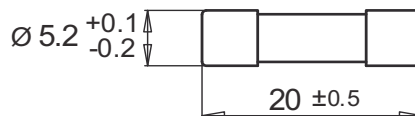
| G                                                                                                                                                                   | Rated Voltage              | Rated Breaking Test                                  | Class                                                                                      | Standard(s)                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------------------------------|
|   | [Un]<br>250V <sub>AC</sub> | Voltage<br>250V <sub>AC</sub> Capacity<br>35A / 100A | T/D<br> | UL 248-14<br>CSA C22.2 -<br>No 248.14 |
| E167295                                                                                                                                                             |                            |                                                      |                                                                                            |                                       |

5mmx20mm - Glass Tube, Contacts - Brass, Nickel Plated

| Rated Current<br>$I_n$<br>[A] | Article Number | UL | Rated Breaking Current<br>[A]          | Voltage Drop<br>[mV] | Power Dissipation<br>@ 1.0I <sub>n</sub><br>[W] | Pre-arcing<br>I <sup>2</sup> t<br>[A <sup>2</sup> s] | Approvals |
|-------------------------------|----------------|----|----------------------------------------|----------------------|-------------------------------------------------|------------------------------------------------------|-----------|
| 0.080                         | 179500.0.080   | ✓  | 35A @ 250V <sub>AC</sub> <sup>1</sup>  | 2 800                | 0.3                                             | 0.024                                                |           |
| 0.100                         | 179500.0.100   | ✓  | 35A @ 250V <sub>AC</sub> <sup>1</sup>  | 2 400                | 0.3                                             | 0.053                                                |           |
| 0.125                         | 179500.0.125   | ✓  | 35A @ 250V <sub>AC</sub> <sup>1</sup>  | 2 100                | 0.3                                             | 0.08                                                 |           |
| 0.150                         | 179500.0.150   | ✓  | 35A @ 250V <sub>AC</sub> <sup>1</sup>  | 1 800                | 0.3                                             | 0.13                                                 |           |
| 0.200                         | 179500.0.200   | ✓  | 35A @ 250V <sub>AC</sub> <sup>1</sup>  | 1 300                | 0.3                                             | 0.24                                                 |           |
| 0.250                         | 179500.0.250   | ✓  | 35A @ 250V <sub>AC</sub> <sup>1</sup>  | 1 100                | 0.3                                             | 0.42                                                 |           |
| 0.300                         | 179500.0.300   | ✓  | 35A @ 250V <sub>AC</sub> <sup>1</sup>  | 1 050                | 0.4                                             | 0.8                                                  |           |
| 0.375                         | 179500.0.375   | ✓  | 35A @ 250V <sub>AC</sub> <sup>1</sup>  | 900                  | 0.4                                             | 1.5                                                  |           |
| 0.400                         | 179500.0.400   | ✓  | 35A @ 250V <sub>AC</sub> <sup>1</sup>  | 850                  | 0.4                                             | 1.6                                                  |           |
| 0.500                         | 179500.0.500   | ✓  | 35A @ 250V <sub>AC</sub> <sup>1</sup>  | 650                  | 0.4                                             | 2.0                                                  |           |
| 0.630                         | 179500.0.630   | ✓  | 35A @ 250V <sub>AC</sub> <sup>1</sup>  | 550                  | 0.4                                             | 3.1                                                  |           |
| 0.700                         | 179500.0.700   | ✓  | 35A @ 250V <sub>AC</sub> <sup>1</sup>  | 500                  | 0.4                                             | 4.5                                                  |           |
| 0.750                         | 179500.0.750   | ✓  | 35A @ 250V <sub>AC</sub> <sup>1</sup>  | 450                  | 0.4                                             | 5.5                                                  |           |
| 0.800                         | 179500.0.800   | ✓  | 35A @ 250V <sub>AC</sub> <sup>1</sup>  | 400                  | 0.4                                             | 6.4                                                  |           |
| 1                             | 179500.1       | ✓  | 35A @ 250V <sub>AC</sub> <sup>1</sup>  | 350                  | 0.4                                             | 12                                                   |           |
| 1.25                          | 179500.1.25    | ✓  | 100A @ 250V <sub>AC</sub> <sup>2</sup> | 300                  | 0.4                                             | 19                                                   |           |
| 1.5                           | 179500.1.5     | ✓  | 100A @ 250V <sub>AC</sub> <sup>2</sup> | 280                  | 0.5                                             | 25                                                   |           |
| 1.6                           | 179500.1.6     | ✓  | 100A @ 250V <sub>AC</sub> <sup>2</sup> | 270                  | 0.5                                             | 32                                                   |           |
| 2                             | 179500.2       | ✓  | 100A @ 250V <sub>AC</sub> <sup>2</sup> | 235                  | 0.5                                             | 55                                                   |           |
| 2.5                           | 179500.2.5     | ✓  | 100A @ 250V <sub>AC</sub> <sup>2</sup> | 215                  | 0.6                                             | 90                                                   |           |
| 3                             | 179500.3       | ✓  | 100A @ 250V <sub>AC</sub> <sup>2</sup> | 200                  | 0.6                                             | 160                                                  |           |

 Weight (kg per 100) <sup>1)</sup> 10kA@125V<sub>AC</sub>, 35A@250V<sub>AC</sub> - cosφ = 0.7 -0.8  
 0.1 <sup>2)</sup> 10kA@125V<sub>AC</sub>, 100A@250V<sub>AC</sub> - cosφ = 0.7 -0.8

 Units per Package  
 10

 IP - (1 000 pieces)  
 e.g. 179500.1.6IP

 Dimensions  
 [mm]


| Rated Current | Fusing Time Limits |     |                    |     |                   |      |     |     |     |     |
|---------------|--------------------|-----|--------------------|-----|-------------------|------|-----|-----|-----|-----|
|               | 1.0I <sub>n</sub>  |     | 1.35I <sub>n</sub> |     | 2.0I <sub>n</sub> |      |     |     |     |     |
|               | Min                | Max | Min                | Max | Min               | Max  | Min | Max | Min | Max |
| 80mA - 3A     | 4h                 | —   | —                  | 1h  | 5s                | 120s | —   | —   | —   | —   |

G



Rated Voltage

[Un]

250V<sub>AC</sub>

Rated Breaking Test

Voltage

250V<sub>AC</sub>

Capacity

35A / 10 I<sub>rat</sub>

Class

TT

Standard(s)



5mmx20mm - Glass Tube, Contacts - Brass, Nickel Plated

| Rated Current<br>I <sub>n</sub><br>[A] | Article Number | Rated Breaking Current<br>[A] | Voltage Drop<br>[mV] | Power Dissipation<br>@ 1.0I <sub>n</sub><br>[W] | Pre-arcing<br>I <sup>2</sup> t<br>[A <sup>2</sup> s] | Approvals |
|----------------------------------------|----------------|-------------------------------|----------------------|-------------------------------------------------|------------------------------------------------------|-----------|
| 0.400                                  | 190000.0.400   | 35A @ 250V <sub>AC</sub>      | 500                  | 0.3                                             | 2.5                                                  |           |
| 0.500                                  | 190000.0.500   | 35A @ 250V <sub>AC</sub>      | 450                  | 0.3                                             | 4.6                                                  |           |
| 0.630                                  | 190000.0.630   | 35A @ 250V <sub>AC</sub>      | 400                  | 0.3                                             | 10                                                   |           |
| 0.800                                  | 190000.0.800   | 35A @ 250V <sub>AC</sub>      | 300                  | 0.4                                             | 15                                                   |           |
| 1                                      | 190000.1       | 35A @ 250V <sub>AC</sub>      | 250                  | 0.4                                             | 26                                                   |           |
| 1.25                                   | 190000.1.25    | 35A @ 250V <sub>AC</sub>      | 200                  | 0.4                                             | 37                                                   |           |
| 1.6                                    | 190000.1.6     | 35A @ 250V <sub>AC</sub>      | 200                  | 0.5                                             | 45                                                   |           |
| 2                                      | 190000.2       | 35A @ 250V <sub>AC</sub>      | 200                  | 0.6                                             | 72                                                   |           |
| 2.5                                    | 190000.2.5     | 35A @ 250V <sub>AC</sub>      | 150                  | 0.6                                             | 130                                                  |           |
| 3.15                                   | 190000.3.15    | 35A @ 250V <sub>AC</sub>      | 150                  | 0.6                                             | 230                                                  |           |
| 4                                      | 190000.4       | 40A @ 250V <sub>AC</sub>      | 100                  | 0.8                                             | 370                                                  |           |

Weight (kg per 100)

0.1

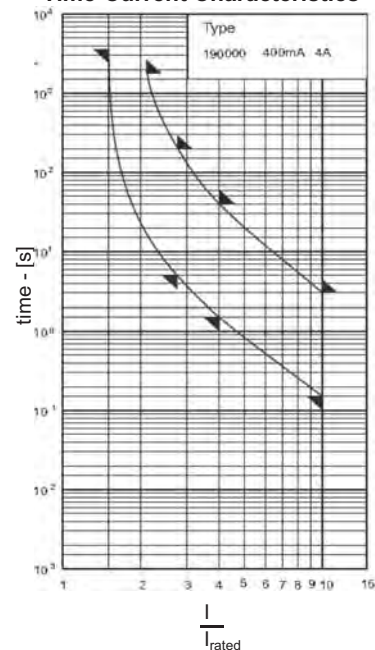
Units per Package

10

IP - (1 000 pieces)

e.g. 190000.2IP

Time-Current Characteristics

Dimensions  
[mm]

| Rated Current | Fusing Time Limits |     |                   |     |                    |      |                 |     |                  |     |
|---------------|--------------------|-----|-------------------|-----|--------------------|------|-----------------|-----|------------------|-----|
|               | 1.5I <sub>n</sub>  |     | 2.1I <sub>n</sub> |     | 2.75I <sub>n</sub> |      | 4I <sub>n</sub> |     | 10I <sub>n</sub> |     |
|               | Min                | Max | Min               | Max | Min                | Max  | Min             | Max | Min              | Max |
| 400mA - 4A    | 1h                 | —   | —                 | 30m | 5s                 | 200s | 1.5s            | 40s | 150ms            | 3s  |

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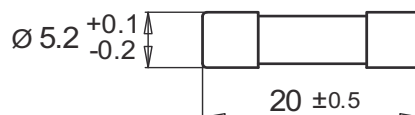
Fax 1-973-575-5858

e-mail: info@sibafuse.com

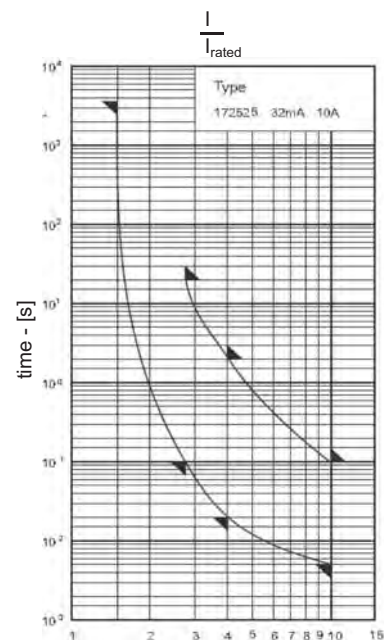
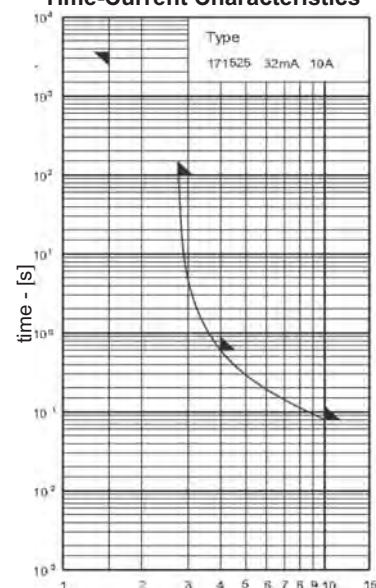
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|                                                                 |                                                                                   |                            |                               |                       |                                                                                              |             |
|-----------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------|-------------------------------|-----------------------|----------------------------------------------------------------------------------------------|-------------|
| G                                                               |  | Rated Voltage              | Rated Breaking Test           |                       | Class                                                                                        | Standard(s) |
|                                                                 |                                                                                   | [Un]<br>250V <sub>AC</sub> | Voltage<br>250V <sub>AC</sub> | Capacity<br>50A / 80A | F & M<br> |             |
| 5mmx25mm - Glass Tube w/Filler, Contacts - Brass, Nickel Plated |                                                                                   |                            |                               |                       |                                                                                              |             |

| Rated<br>Current<br>$I_n$<br>[A] | F                   |  | M              |  | Rated<br>Breaking<br>Current<br>[A]                                                 | Approvals             |
|----------------------------------|---------------------|--|----------------|--|-------------------------------------------------------------------------------------|-----------------------|
|                                  | Article Number      |  | Article Number |  |                                                                                     |                       |
|                                  | without filling     |  |                |  |                                                                                     |                       |
| 0.032                            | 171525.0.032        |  | 172525.0.032   |  | 50A @ 250V <sub>AC</sub>                                                            |                       |
| 0.050                            | 171525.0.050        |  | 172525.0.050   |  | 50A @ 250V <sub>AC</sub>                                                            |                       |
| 0.063                            | 171525.0.063        |  | 172525.0.063   |  | 50A @ 250V <sub>AC</sub>                                                            |                       |
| 0.080                            | 171525.0.080        |  | 172525.0.080   |  | 50A @ 250V <sub>AC</sub>                                                            |                       |
| 0.100                            | 171525.0.100        |  | 172525.0.100   |  | 50A @ 250V <sub>AC</sub>                                                            |                       |
| 0.125                            | 171525.0.125        |  | 172525.0.125   |  | 50A @ 250V <sub>AC</sub>                                                            |                       |
| 0.160                            | 171525.0.160        |  | 172525.0.160   |  | 50A @ 250V <sub>AC</sub>                                                            |                       |
| 0.200                            | 171525.0.200        |  | 172525.0.200   |  | 50A @ 250V <sub>AC</sub>                                                            |                       |
| 0.250                            | 171525.0.250        |  | 172525.0.250   |  | 50A @ 250V <sub>AC</sub>                                                            |                       |
| 0.315                            | 171525.0.315        |  | 172525.0.315   |  | 50A @ 250V <sub>AC</sub>                                                            |                       |
| 0.400                            | 171525.0.400        |  | 172525.0.400   |  | 50A @ 250V <sub>AC</sub>                                                            |                       |
| 0.500                            | 171525.0.500        |  | 172525.0.500   |  | 50A @ 250V <sub>AC</sub>                                                            |                       |
| 0.630                            | 171525.0.630        |  | 172525.0.630   |  | 50A @ 250V <sub>AC</sub>                                                            |                       |
| 0.800                            | 171525.0.800        |  | 172525.0.800   |  | 50A @ 250V <sub>AC</sub>                                                            |                       |
| 1                                | 171525.1            |  | 172525.1       |  | 50A @ 250V <sub>AC</sub>                                                            |                       |
| 1.25                             | 171525.1.25         |  | 172525.1.25    |  | 50A @ 250V <sub>AC</sub>                                                            |                       |
|                                  | with filling        |  |                |  |                                                                                     |                       |
| 1.6                              | 171525.1.6          |  | 172525.1.6     |  | 80A @ 250V <sub>AC</sub>                                                            |                       |
| 2                                | 171525.2            |  | 172525.2       |  | 80A @ 250V <sub>AC</sub>                                                            |                       |
| 2.5                              | 171525.2.5          |  | 172525.2.5     |  | 80A @ 250V <sub>AC</sub>                                                            |                       |
| 3.15                             | 171525.3.15         |  | 172525.3.15    |  | 80A @ 250V <sub>AC</sub>                                                            |                       |
| 4                                | 171525.4            |  | 172525.4       |  | 80A @ 250V <sub>AC</sub>                                                            |                       |
| 5                                | 171525.5            |  | 172525.5       |  | 80A @ 250V <sub>AC</sub>                                                            |                       |
| 6.3                              | 171525.6.3          |  | 172525.6.3     |  | 80A @ 250V <sub>AC</sub>                                                            |                       |
| 8                                | 171525.8            |  | 172525.8       |  | 80A @ 250V <sub>AC</sub>                                                            |                       |
| 10                               | 171525.10           |  | 171525.10      |  | 80A @ 250V <sub>AC</sub>                                                            |                       |
|                                  | Weight (kg per 100) |  |                |  |  | <div>Dimensions</div> |
|                                  | 0.12                |  | 0.15           |  |                                                                                     |                       |
|                                  | Units per Package   |  |                |  |                                                                                     |                       |
|                                  | 10                  |  |                |  |                                                                                     |                       |


 Dimensions  
[mm]


Time-Current Characteristics



|        | Rated Current | Fusing Time Limits |     |                   |     |                    |      |                 |       |                  |       |
|--------|---------------|--------------------|-----|-------------------|-----|--------------------|------|-----------------|-------|------------------|-------|
|        |               | 1.5I <sub>n</sub>  |     | 2.1I <sub>n</sub> |     | 2.75I <sub>n</sub> |      | 4I <sub>n</sub> |       | 10I <sub>n</sub> |       |
|        |               | Min                | Max | Min               | Max | Min                | Max  | Min             | Max   | Min              | Max   |
| 171525 | 32mA - 10A    | 1h                 | —   | —                 | —   | —                  | 100s | —               | 600ms | —                | 80ms  |
| 172525 | 32mA - 10A    | 1h                 | —   | —                 | —   | 100s               | 20s  | 2s              | 40s   | 5ms              | 100ms |

G



Rated Voltage

[Un]

60V<sub>AC</sub>

Rated Breaking Test

Voltage

60V<sub>AC</sub>

Capacity

1.5kA

Class



Standard(s)

DIN 41572

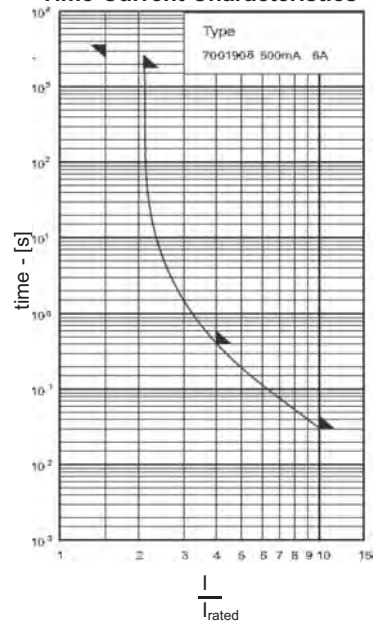
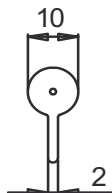
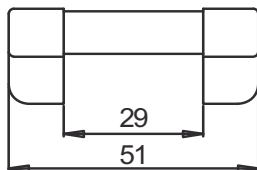
10mmx51mm - Glass Tube, Contacts - Brass, Nickel Plated

| Rated Current<br>$I_n$<br>[A] | Article Number | Rated Breaking Current<br>[A] | Voltage Drop<br>[mV] | Power Dissipation<br>[W] | Pre-arcing<br>$I^2t$<br>[A <sup>2</sup> s] | Approvals |
|-------------------------------|----------------|-------------------------------|----------------------|--------------------------|--------------------------------------------|-----------|
| 0.500                         | 7001908.0.500  | 1.5kA @ 60Vac                 | 1 500                |                          | 0.16                                       |           |
| 0.800                         | 7001908.0.800  | 1.5kA @ 60Vac                 | 1 200                |                          | 0.8                                        |           |
| 1                             | 7001908.1      | 1.5kA @ 60Vac                 | 1 000                |                          | 0.64                                       |           |
| 1.6                           | 7001908.1.6    | 1.5kA @ 60Vac                 | 1 120                |                          | 2.6                                        |           |
| 2                             | 7001908.2      | 1.5kA @ 60Vac                 | 1 200                |                          | 4.9                                        |           |
| 2.5                           | 7001908.2.5    | 1.5kA @ 60Vac                 | 1 000                |                          | 10                                         |           |
| 3                             | 7001908.3      | 1.5kA @ 60Vac                 | 900                  |                          | 19                                         |           |
| 4                             | 7001908.4      | 1.5kA @ 60Vac                 | 800                  |                          | 41                                         |           |
| 6                             | 7001908.6      | 1.5kA @ 60Vac                 | 600                  |                          | 140                                        |           |

Weight (kg per 100)

Units per Package

Time-Current Characteristics

Dimensions  
[mm]

| Rated Current | Fusing Time Limits |     |                   |     |                    |      |                 |       |                  |      |
|---------------|--------------------|-----|-------------------|-----|--------------------|------|-----------------|-------|------------------|------|
|               | 1.5I <sub>n</sub>  |     | 2.1I <sub>n</sub> |     | 2.75I <sub>n</sub> |      | 5I <sub>n</sub> |       | 10I <sub>n</sub> |      |
|               | Min                | Max | Min               | Max | Min                | Max  | Min             | Max   | Min              | Max  |
| 500mA - 6A    | 1h                 | —   | —                 | 30m | —                  | 100s | —               | 400ms | —                | 30ms |

G



Rated Voltage

[Un]  
250V<sub>AC</sub>

Rated Breaking Test

Voltage Capacity  
250V<sub>AC</sub> 1.5kA

Class

F

Standard(s)

DIN 41576-1



5mmx25mm - Ceramic Tube w/Filler, Contacts - Brass, Nickel Plated

| Rated Current<br>$I_n$<br>[A] | Article Number | Rated Breaking Current<br>[A] | Voltage Drop<br>[mV] | Power Dissipation<br>@ 1.5 $I_n$<br>[W] | Pre-arcing<br>$I^2t$<br>[A <sup>2</sup> s] | Color Code |
|-------------------------------|----------------|-------------------------------|----------------------|-----------------------------------------|--------------------------------------------|------------|
| 1.6                           | 171526.1.6     | 1.5kA @ 250V <sub>AC</sub>    | 640                  | 0.9                                     | 2.3                                        | Orange     |
| 2                             | 171526.2       | 1.5kA @ 250V <sub>AC</sub>    | 420                  | 1.1                                     | 2.4                                        | Blue       |
| 2.5                           | 171526.2.5     | 1.5kA @ 250V <sub>AC</sub>    | 320                  | 1.2                                     | 4                                          | Yellow     |
| 3.15                          | 171526.3.15    | 1.5kA @ 250V <sub>AC</sub>    | 250                  | 1.4                                     | 6.5                                        | Black      |
| 4                             | 171526.4       | 1.5kA @ 250V <sub>AC</sub>    | 200                  | 1.7                                     | 16                                         | Brown      |
| 5                             | 171526.5       | 1.5kA @ 250V <sub>AC</sub>    | 180                  | 2.1                                     | 33                                         | White      |
| 6.3                           | 171526.6.3     | 1.5kA @ 250V <sub>AC</sub>    | 170                  | 2.5                                     | 63                                         | Green      |
| 8                             | 171526.8       | 1.5kA @ 250V <sub>AC</sub>    | 150                  | 3.0                                     | 100                                        | Grey       |
| 10                            | 171526.10      | 1.5kA @ 250V <sub>AC</sub>    | 120                  | 3.3                                     | 200                                        | Red        |

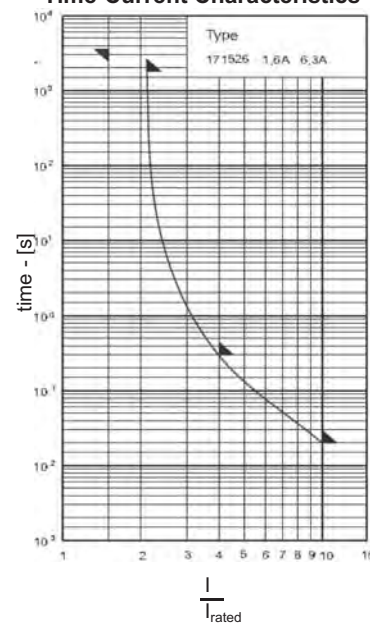
Weight (kg per 100)

0.13

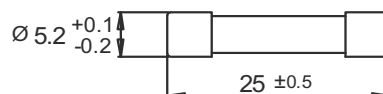
Units per Package

10

Time-Current Characteristics



Dimensions  
[mm]



| Rated Current | Fusing Time Limits |     |           |     |            |     |         |       |          |      |
|---------------|--------------------|-----|-----------|-----|------------|-----|---------|-------|----------|------|
|               | 1.5 $I_n$          |     | 2.1 $I_n$ |     | 2.75 $I_n$ |     | 4 $I_n$ |       | 10 $I_n$ |      |
|               | Min                | Max | Min       | Max | Min        | Max | Min     | Max   | Min      | Max  |
| 1.6A - 10A    | 1h                 | —   | —         | 30m | —          | —   | —       | 400ms | —        | 20ms |

G



Rated Voltage

[Un]

250V<sub>AC</sub>

Rated Breaking Test

Voltage

250V<sub>AC</sub>

Capacity

80A / 1.5kA

Class

M

Standard(s)

DIN 41576-2



5mmx25mm - Ceramic Tube w/Filler, Contacts - Brass, Nickel Plated

| Rated Current<br>$I_n$<br>[A] | Article Number | Rated Breaking Current<br>[A] | Voltage Drop<br>[mV] | Power Dissipation<br>@ 1.5I <sub>n</sub><br>[W] | Pre-arcing<br>I <sup>2</sup> t<br>[A <sup>2</sup> s] | Color Code |
|-------------------------------|----------------|-------------------------------|----------------------|-------------------------------------------------|------------------------------------------------------|------------|
|                               | without filler |                               |                      |                                                 |                                                      |            |
| 0.050                         | 172526.0.050   | 80A @ 250V <sub>AC</sub>      | 520                  | 0.1                                             | 0.005                                                | White      |
| 0.063                         | 172526.0.063   | 80A @ 250V <sub>AC</sub>      | 520                  | 0.1                                             | 0.007                                                | Green      |
| 0.080                         | 172526.0.080   | 80A @ 250V <sub>AC</sub>      | 520                  | 0.1                                             | 0.009                                                | Grey       |
| 0.100                         | 172526.0.100   | 80A @ 250V <sub>AC</sub>      | 500                  | 0.1                                             | 0.022                                                | Red        |
| 0.125                         | 172526.0.125   | 80A @ 250V <sub>AC</sub>      | 500                  | 0.1                                             | 0.041                                                | Violet     |
| 0.160                         | 172526.0.160   | 80A @ 250V <sub>AC</sub>      | 400                  | 0.1                                             | 0.1                                                  | Orange     |
| 0.200                         | 172526.0.200   | 80A @ 250V <sub>AC</sub>      | 400                  | 0.2                                             | 0.2                                                  | Blue       |
| 0.250                         | 172526.0.250   | 1.5kA @ 250V <sub>AC</sub>    | 375                  | 0.2                                             | 0.22                                                 | Yellow     |
| 0.315                         | 172526.0.315   | 1.5kA @ 250V <sub>AC</sub>    | 410                  | 0.2                                             | 0.31                                                 | Black      |
| 0.400                         | 172526.0.400   | 1.5kA @ 250V <sub>AC</sub>    | 280                  | 0.2                                             | 0.56                                                 | Brown      |
| 0.500                         | 172526.0.500   | 1.5kA @ 250V <sub>AC</sub>    | 250                  | 0.2                                             | 1.1                                                  | White      |
| 0.630                         | 172526.0.630   | 1.5kA @ 250V <sub>AC</sub>    | 220                  | 0.2                                             | 0.7                                                  | Green      |
| 0.800                         | 172526.0.800   | 1.5kA @ 250V <sub>AC</sub>    | 400                  | 0.2                                             | 1.6                                                  | Grey       |
| 1                             | 172526.1       | 1.5kA @ 250V <sub>AC</sub>    | 350                  | 0.2                                             | 3.5                                                  | Red        |
| 1.25                          | 172526.1.25    | 1.5kA @ 250V <sub>AC</sub>    | 315                  | 0.4                                             | 5.5                                                  | Violet     |
|                               | with filler    |                               |                      |                                                 |                                                      |            |
| 1.6                           | 172526.1.6     | 1.5kA @ 250V <sub>AC</sub>    | 480                  | 0.6                                             | 5.6                                                  | Orange     |
| 2                             | 172526.2       | 1.5kA @ 250V <sub>AC</sub>    | 360                  | 0.7                                             | 9.6                                                  | Blue       |
| 2.5                           | 172526.2.5     | 1.5kA @ 250V <sub>AC</sub>    | 300                  | 0.9                                             | 15                                                   | Yellow     |
| 3.15                          | 172526.3.15    | 1.5kA @ 250V <sub>AC</sub>    | 250                  | 1.1                                             | 24                                                   | Black      |
| 4                             | 172526.4       | 1.5kA @ 250V <sub>AC</sub>    | 180                  | 1.3                                             | 40                                                   | Brown      |
| 5                             | 172526.5       | 1.5kA @ 250V <sub>AC</sub>    | 180                  | 1.5                                             | 87                                                   | White      |
| 6.3                           | 172526.6.3     | 1.5kA @ 250V <sub>AC</sub>    | 160                  | 1.8                                             | 170                                                  | Green      |
| 8                             | 172526.8       | 1.5kA @ 250V <sub>AC</sub>    | 150                  | 3                                               | 190                                                  | Grey       |
| 10                            | 172526.10      | 1.5kA @ 250V <sub>AC</sub>    | 150                  | 3.2                                             | 370                                                  | Red        |

Weight (kg per 100)

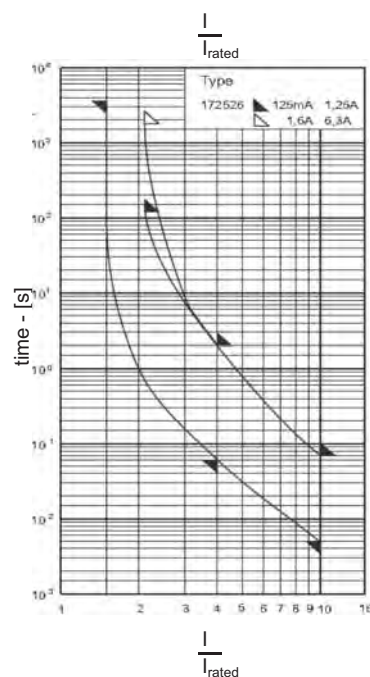
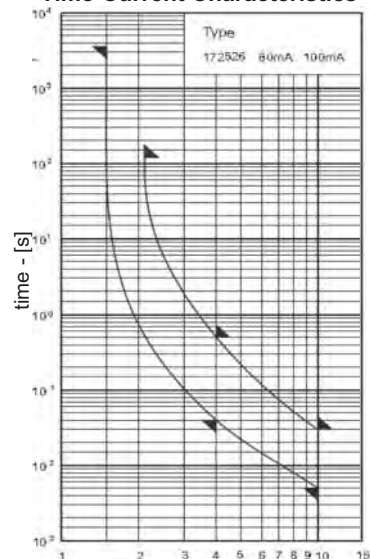
0.15

Units per Package

10

Dimensions  
[mm]

Time-Current Characteristics



| Rated Current | Fusing Time Limits |     |                   |     |                    |     |                 |       |                  |      |
|---------------|--------------------|-----|-------------------|-----|--------------------|-----|-----------------|-------|------------------|------|
|               | 1.5I <sub>n</sub>  |     | 2.1I <sub>n</sub> |     | 2.75I <sub>n</sub> |     | 5I <sub>n</sub> |       | 10I <sub>n</sub> |      |
|               | Min                | Max | Min               | Max | Min                | Max | Min             | Max   | Min              | Max  |
| 1.6A - 6.3A   | 1h                 | —   | —                 | 2m  | —                  | —   | 40s             | 500ms | 5ms              | 30ms |
| 1.6A - 6.3A   | 1h                 | —   | —                 | 3m  | —                  | —   | 60ms            | 2s    | 5ms              | 70ms |
| 1.6A - 6.3A   | 1h                 | —   | —                 | 30m | —                  | —   | 60ms            | 2s    | 5ms              | 70ms |

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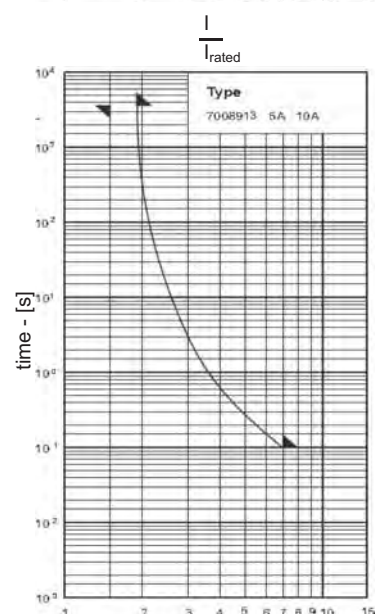
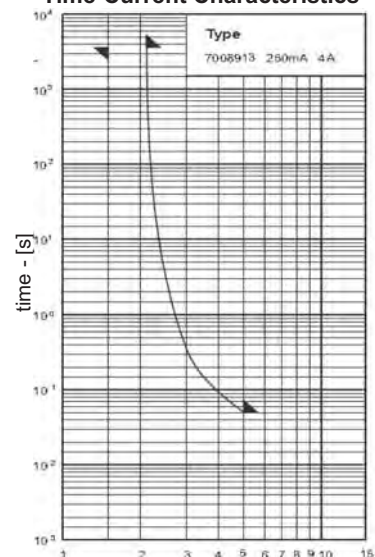
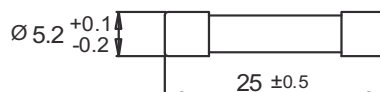
e-mail: info@sibafuse.com

www.siba-fuses.us

| G                                                                    | Rated Voltage<br>[Un]<br>400V <sub>AC</sub> | Rated Breaking Test<br>Voltage<br>500V <sub>AC</sub> | Capacity<br>70kA | Class<br>F | Standard(s)<br>Lloyds<br>approved |
|----------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------|------------------|------------|-----------------------------------|
| <div>RoHS</div>                                                      |                                             |                                                      |                  |            |                                   |
| 5mmx25mm - Ceramic Tube w/Indicator, Contacts - Brass, Nickel Plated |                                             |                                                      |                  |            |                                   |

| Rated Current<br>$I_n$<br>[A] | Article Number | Rated Breaking Current<br>[A]           | Voltage Drop<br>[mV] | Power Dissipation<br>@ 1.5 $I_n$<br>[W] | Pre-arcing<br>$I^2t$<br>[A <sup>2</sup> s] | Color Code |
|-------------------------------|----------------|-----------------------------------------|----------------------|-----------------------------------------|--------------------------------------------|------------|
| 0.250                         | 7008913.0.250  | 70kA @ 500V <sub>AC</sub> <sup>1</sup>  | 950                  | 0.3                                     | 0.05                                       | Yellow     |
| 0.315                         | 7008913.0.315  | 70kA @ 500V <sub>AC</sub> <sup>1</sup>  | 900                  | 0.5                                     | 0.05                                       | Black      |
| 0.400                         | 7008913.0.400  | 70kA @ 500V <sub>AC</sub> <sup>1</sup>  | 800                  | 0.5                                     | 0.15                                       | Brown      |
| 0.500                         | 7008913.0.500  | 70kA @ 500V <sub>AC</sub> <sup>1</sup>  | 700                  | 0.6                                     | 0.15                                       | White      |
| 0.800                         | 7008913.0.800  | 70kA @ 500V <sub>AC</sub> <sup>1</sup>  | 300                  | 0.3                                     | 0.25                                       | Grey       |
| 1                             | 7008913.1      | 70kA @ 500V <sub>AC</sub> <sup>1</sup>  | 250                  | 0.3                                     | 0.5                                        | Red        |
| 1.25                          | 7008913.1.25   | 70kA @ 500V <sub>AC</sub> <sup>1</sup>  | 400                  | 0.4                                     | 1.1                                        | Violet     |
| 1.6                           | 7008913.1.6    | 70kA @ 500V <sub>AC</sub> <sup>1</sup>  | 400                  | 0.9                                     | 2.3                                        | Orange     |
| 2                             | 7008913.2      | 70kA @ 500V <sub>AC</sub> <sup>1</sup>  | 350                  | 1.1                                     | 2.4                                        | Blue       |
| 2.5                           | 7008913.2.5    | 70kA @ 500V <sub>AC</sub> <sup>1</sup>  | 300                  | 1.2                                     | 4                                          | Yellow     |
| 3.15                          | 7008913.3.15   | 70kA @ 500V <sub>AC</sub> <sup>1</sup>  | 200                  | 1.4                                     | 6.5                                        | Black      |
| 4                             | 7008913.4      | 70kA @ 500V <sub>AC</sub> <sup>1</sup>  | 200                  | 1.7                                     | 16                                         | Brown      |
| 5                             | 7008913.5      | 70kA @ 500V <sub>AC</sub> <sup>1</sup>  | 200                  | 2.1                                     | 33                                         | White      |
| 6.3                           | 7008913.6.3    | 70kA @ 500V <sub>AC</sub> <sup>1</sup>  | 150                  | 2.5                                     | 63                                         | Green      |
| 8                             | 70089 3.8      | 70kA @ 500V <sub>AC</sub> <sup>1</sup>  | 150                  | 3.0                                     | 100                                        | Grey       |
| 10                            | 7008913.10     | 70kA @ 500V <sub>AC</sub> <sup>1</sup>  | 150                  | 3.3                                     | 200                                        | Red        |
| Weight (kg per 100)           |                | <sup>1)</sup> 10kA @ 250V <sub>DC</sub> |                      |                                         |                                            |            |
| 0.13                          |                |                                         |                      |                                         |                                            |            |
| Units per Package             |                |                                         |                      |                                         |                                            |            |
| 10                            |                |                                         |                      |                                         |                                            |            |

Time-Current Characteristics

Dimensions  
[mm]

| Rated Current | Fusing Time Limits |     |           |     |           |     |         |      |         |       |
|---------------|--------------------|-----|-----------|-----|-----------|-----|---------|------|---------|-------|
|               | 1.5 $I_n$          |     | 1.9 $I_n$ |     | 2.1 $I_n$ |     | 5 $I_n$ |      | 7 $I_n$ |       |
|               | Min                | Max | Min       | Max | Min       | Max | Min     | Max  | Min     | Max   |
| 500mA - 4A    | 1h                 | —   | —         | —   | —         | 1h  | —       | 50ms | —       | —     |
| 5A - 10A      | 1h                 | —   | —         | 1h  | —         | —   | —       | —    | —       | 100ms |

G



Rated Voltage

[Un]

250V<sub>AC</sub>

Rated Breaking Test

Voltage

250V<sub>AC</sub>

Capacity

80A / 1.5kA

Class

M

Standard(s)

DIN 41577 T.2

5mmx"L"mm - Ceramic Tube w/Indicator, Contacts - Brass, Nickel Plated

| Rated Current<br>$I_n$<br>[A] | Article Number | Rated Breaking Current<br>[A] | Voltage Drop<br>[mV] | Power Dissipation<br>@ 1.5I <sub>n</sub><br>[mw] | Pre-arcing<br>I <sup>2</sup> t<br>[A <sup>2</sup> s] | Length<br>"L"<br>[mm] |
|-------------------------------|----------------|-------------------------------|----------------------|--------------------------------------------------|------------------------------------------------------|-----------------------|
| 0.080                         | 7001607.0.080  | 80A @ 250V <sub>AC</sub>      | 520                  | 0.1                                              | 0.017                                                | 25                    |
| 0.100                         | 7001607.0.100  | 80A @ 250V <sub>AC</sub>      | 500                  | 0.1                                              | 0.022                                                |                       |
| 0.125                         | 7001607.0.125  | 80A @ 250V <sub>AC</sub>      | 500                  | 0.1                                              | 0.041                                                |                       |
| 0.160                         | 7001607.0.160  | 80A @ 250V <sub>AC</sub>      | 400                  | 0.1                                              | 0.1                                                  |                       |
| 0.200                         | 7001607.0.200  | 80A @ 250V <sub>AC</sub>      | 400                  | 0.2                                              | 0.2                                                  |                       |
| 0.250                         | 7001707.0.250  | 1.5kA @ 250V <sub>AC</sub>    | 500                  | 0.2                                              | 0.22                                                 | 25                    |
| 0.315                         | 7001707.0.315  | 1.5kA @ 250V <sub>AC</sub>    | 470                  | 0.2                                              | 0.31                                                 |                       |
| 0.400                         | 7001707.0.400  | 1.5kA @ 250V <sub>AC</sub>    | 400                  | 0.2                                              | 0.56                                                 |                       |
| 0.500                         | 7001707.0.500  | 1.5kA @ 250V <sub>AC</sub>    | 400                  | 0.2                                              | 1.1                                                  |                       |
| 0.630                         | 7001707.0.630  | 1.5kA @ 250V <sub>AC</sub>    | 380                  | 0.2                                              | 0.7                                                  |                       |
| 0.8                           | 7001407.0.800  | 1.5kA @ 250V <sub>AC</sub>    | 400                  | 0.3                                              | 1.6                                                  | 20                    |
| 1                             | 7001407.1      | 1.5kA @ 250V <sub>AC</sub>    | 350                  | 0.3                                              | 3.5                                                  |                       |
| 1.25                          | 7001407.1.25   | 1.5kA @ 250V <sub>AC</sub>    | 310                  | 0.3                                              | 5.5                                                  |                       |
| 1.6                           | 7001407.1.6    | 1.5kA @ 250V <sub>AC</sub>    | 480                  | 1.0                                              | 5.6                                                  |                       |
| 2                             | 7001407.2      | 1.5kA @ 250V <sub>AC</sub>    | 360                  | 1.0                                              | 9.6                                                  |                       |
| 2.5                           | 7001407.2.5    | 1.5kA @ 250V <sub>AC</sub>    | 300                  | 1.1                                              | 15                                                   |                       |
| 3.15                          | 7001407.3.15   | 1.5kA @ 250V <sub>AC</sub>    | 250                  | 1.2                                              | 24                                                   |                       |
| 4                             | 7001407.4      | 1.5kA @ 250V <sub>AC</sub>    | 180                  | 1.3                                              | 40                                                   |                       |
| 6.3                           | 7001205.6.3    | 1.5kA @ 250V <sub>AC</sub>    | 160                  | 1.8                                              | 170                                                  |                       |

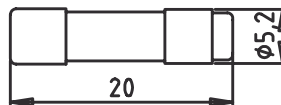
|                     |
|---------------------|
| Weight (kg per 100) |
| 0.15                |
| Units per Package   |
| 10                  |

Dimensions  
[mm]

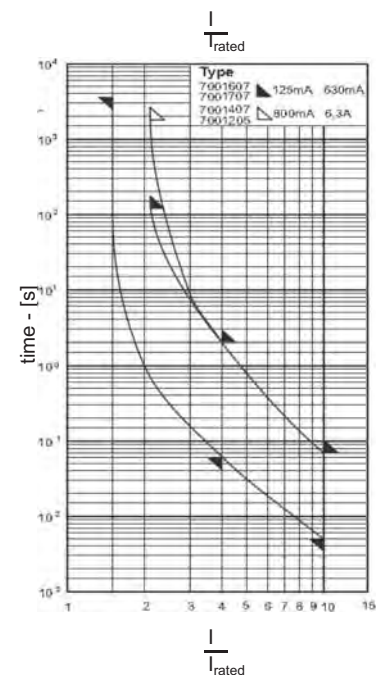
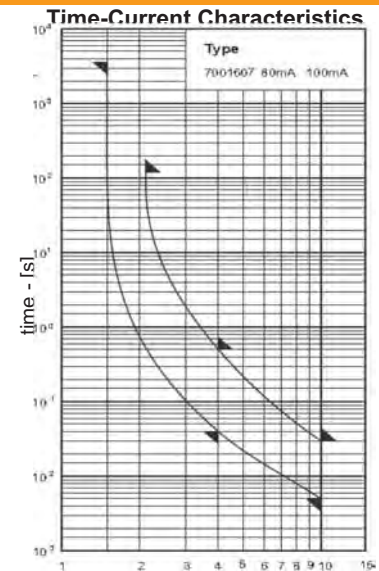
7001607 / 7001707



7001407



7001205



| Rated Current | Fusing Time Limits |     |                   |     |                    |     |                 |       |                  |      |
|---------------|--------------------|-----|-------------------|-----|--------------------|-----|-----------------|-------|------------------|------|
|               | 1.5I <sub>n</sub>  |     | 2.1I <sub>n</sub> |     | 2.75I <sub>n</sub> |     | 4I <sub>n</sub> |       | 10I <sub>n</sub> |      |
|               | Min                | Max | Min               | Max | Min                | Max | Min             | Max   | Min              | Max  |
| 80mA - 100mA  | 1h                 | —   | —                 | 2m  | —                  | —   | 40ms            | 500ms | 5ms              | 30ms |
| 125mA - 630mA | 1h                 | —   | —                 | 2m  | —                  | —   | 60ms            | 2s    | 5ms              | 70ms |
| 800mA - 6.3A  | 1h                 | —   | —                 | 30m | —                  | —   | 60ms            | 2s    | 5ms              | 70ms |

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**G** **RoHS** **Rated Voltage [Un] 500V<sub>AC</sub>** **Rated Breaking Test Voltage 500V<sub>AC</sub>** **Capacity 50A** **Class F/M** **Standard(s)**

5mmx30mm - Glass Tube w/Filler, Contacts - Brass, Nickel Plated

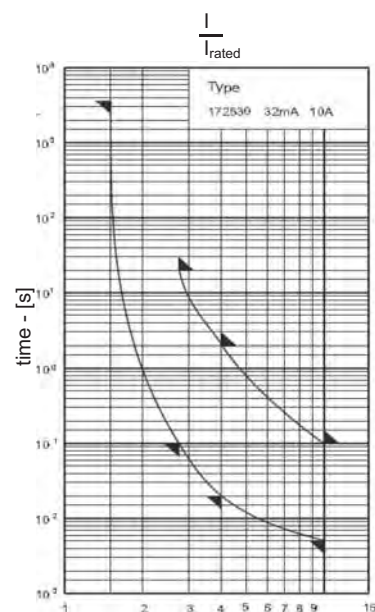
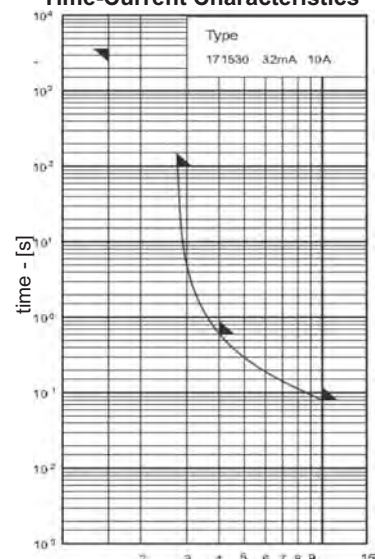
| Rated<br>Current<br>$I_n$<br>[A] | F                   |  | M              |  | Rated<br>Breaking<br>Current<br>[A] |
|----------------------------------|---------------------|--|----------------|--|-------------------------------------|
|                                  | Article Number      |  | Article Number |  |                                     |
|                                  | without filling     |  |                |  |                                     |
| 0.032                            | 171530.0.032        |  | 172530.0.032   |  | 50A @ 500V <sub>AC</sub>            |
| 0.050                            | 171530.0.050        |  | 172530.0.050   |  | 50A @ 500V <sub>AC</sub>            |
| 0.063                            | 171530.0.063        |  | 172530.0.063   |  | 50A @ 500V <sub>AC</sub>            |
| 0.080                            | 171530.0.080        |  | 172530.0.080   |  | 50A @ 500V <sub>AC</sub>            |
| 0.100                            | 171530.0.100        |  | 172530.0.100   |  | 50A @ 500V <sub>AC</sub>            |
| 0.125                            | 171530.0.125        |  | 172530.0.125   |  | 50A @ 500V <sub>AC</sub>            |
| 0.160                            | 171530.0.160        |  | 172530.0.160   |  | 50A @ 500V <sub>AC</sub>            |
| 0.200                            | 171530.0.200        |  | 172530.0.200   |  | 50A @ 500V <sub>AC</sub>            |
| 0.250                            | 171530.0.250        |  | 172530.0.250   |  | 50A @ 500V <sub>AC</sub>            |
| 0.315                            | 171530.0.315        |  | 172530.0.315   |  | 50A @ 500V <sub>AC</sub>            |
| 0.400                            | 171530.0.400        |  | 172530.0.400   |  | 50A @ 500V <sub>AC</sub>            |
| 0.500                            | 171530.0.500        |  | 172530.0.500   |  | 50A @ 500V <sub>AC</sub>            |
| 0.630                            | 171530.0.630        |  | 172530.0.630   |  | 50A @ 500V <sub>AC</sub>            |
| 0.800                            | 171530.0.800        |  | 172530.0.800   |  | 50A @ 500V <sub>AC</sub>            |
| 1                                | 171530.1            |  | 172530.1       |  | 50A @ 500V <sub>AC</sub>            |
| 1.25                             | 171530.1.25         |  | 172530.1.25    |  | 50A @ 500V <sub>AC</sub>            |
|                                  | with filling        |  |                |  |                                     |
| 1.6                              | 171530.1.6          |  | 172530.1.6     |  | 80A @ 500V <sub>AC</sub>            |
| 2                                | 171530.2            |  | 172530.2       |  | 80A @ 500V <sub>AC</sub>            |
| 2.5                              | 171530.2.5          |  | 172530.2.5     |  | 80A @ 500V <sub>AC</sub>            |
| 3.15                             | 171530.3.15         |  | 172530.3.15    |  | 80A @ 500V <sub>AC</sub>            |
| 4                                | 171530.4            |  | 172530.4       |  | 80A @ 500V <sub>AC</sub>            |
| 5                                | 171530.5            |  | 172530.5       |  | 80A @ 500V <sub>AC</sub>            |
| 6.3                              | 171530.6.3          |  | 172530.6.3     |  | 80A @ 500V <sub>AC</sub>            |
| 8                                | 171530.8            |  | 172530.8       |  | 80A @ 500V <sub>AC</sub>            |
| 10                               | 171530.10           |  | 171530.10      |  | 80A @ 500V <sub>AC</sub>            |
|                                  | Weight (kg per 100) |  |                |  |                                     |
|                                  | 0.12                |  |                |  |                                     |
|                                  | Units per Package   |  |                |  |                                     |
|                                  | 10                  |  |                |  |                                     |



Dimensions  
[mm]



**Time-Current Characteristics**



|        |               | Fusing Time Limits |     |                   |     |                    |       |                 |       |                  |       |
|--------|---------------|--------------------|-----|-------------------|-----|--------------------|-------|-----------------|-------|------------------|-------|
|        | Rated Current | 1.5I <sub>n</sub>  |     | 2.1I <sub>n</sub> |     | 2.75I <sub>n</sub> |       | 4I <sub>n</sub> |       | 10I <sub>n</sub> |       |
|        |               | Min                | Max | Min               | Max | Min                | Max   | Min             | Max   | Min              | Max   |
| 171530 | 32mA - 10A    | 1h                 | —   | —                 | —   | —                  | 100ms | —               | 600ms | —                | 80ms  |
| 172530 | 32mA - 10A    | 1h                 | —   | —                 | —   | 50ms               | 30s   | 20ms            | 2s    | 5ms              | 100ms |

G



RoHS

Rated Voltage

[Un]

700V<sub>AC</sub>

Rated Breaking Test

Voltage

700V<sub>AC</sub>

Capacity

50kA

Class

FF

Standard(s)



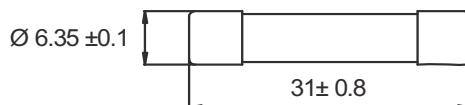
6.3mmx32mm - Ceramic Tube w/Filler, Contacts - Brass, Nickel Plated

| Rated Current<br>$I_n$<br>[A] | Article Number |   | Rated Breaking Current<br>[A]          | Voltage Drop<br>[mV] | Power Dissipation<br>@ $1I_n/1.2I_n$<br>[W] | Pre-arcing<br>$I^2t$<br>[A <sup>2</sup> s] |
|-------------------------------|----------------|---|----------------------------------------|----------------------|---------------------------------------------|--------------------------------------------|
| 0.100                         | 7012540.0.100  | ✓ | 50kA @ 700V <sub>AC</sub> <sup>1</sup> | 2 500                | 0.3                                         | 0.0009                                     |
| 0.125                         | 7012540.0.125  | ✓ | 50kA @ 700V <sub>AC</sub> <sup>1</sup> | 2 200                | 0.3                                         | 0.0017                                     |
| 0.160                         | 7012540.0.160  | ✓ | 50kA @ 700V <sub>AC</sub> <sup>1</sup> | 2 000                | 0.4                                         | 0.004                                      |
| 0.200                         | 7012540.0.200  | ✓ | 50kA @ 700V <sub>AC</sub> <sup>1</sup> | 900                  | 0.2                                         | 0.01                                       |
| 0.250                         | 7012540.0.250  | ✓ | 50kA @ 700V <sub>AC</sub> <sup>1</sup> | 800                  | 0.2                                         | 0.02                                       |
| 0.315                         | 7012540.0.315  | ✓ | 50kA @ 700V <sub>AC</sub> <sup>1</sup> | 700                  | 0.3                                         | 0.04                                       |
| 0.400                         | 7012540.0.400  | ✓ | 50kA @ 700V <sub>AC</sub> <sup>1</sup> | 650                  | 0.3                                         | 0.07                                       |
| 0.500                         | 7012540.0.500  | ✓ | 50kA @ 700V <sub>AC</sub> <sup>1</sup> | 650                  | 0.4                                         | 0.15                                       |
| 0.630                         | 7012540.0.630  | ✓ | 50kA @ 700V <sub>AC</sub> <sup>1</sup> | 650                  | 0.5                                         | 0.15                                       |
| 0.800                         | 7012540.0.800  | ✓ | 50kA @ 700V <sub>AC</sub> <sup>1</sup> | 600                  | 0.5                                         | 0.32                                       |
| 1                             | 7012540.1      | ✓ | 50kA @ 700V <sub>AC</sub> <sup>1</sup> | 750                  | 0.8                                         | 0.32                                       |
| 1.25                          | 7012540.1.25   | ✓ | 50kA @ 700V <sub>AC</sub> <sup>1</sup> | 700                  | 0.9                                         | 0.20                                       |
| 1.6                           | 7012540.1.6    | ✓ | 50kA @ 700V <sub>AC</sub> <sup>1</sup> | 650                  | 1.1                                         | 0.31                                       |
| 2                             | 7012540.2      | ✓ | 50kA @ 700V <sub>AC</sub> <sup>1</sup> | 650                  | 1.4                                         | 0.64                                       |
| 2.5                           | 7012540.2.5    | ✓ | 50kA @ 600V <sub>AC</sub>              | 550                  | 1.4                                         | 1.2                                        |
| 3.15                          | 7012540.3.15   | ✓ | 50kA @ 600V <sub>AC</sub>              | 500                  | 1.6                                         | 2.0                                        |
| 4                             | 7012540.4      | ✓ | 50kA @ 600V <sub>AC</sub>              | 450                  | 1.8                                         | 5.0                                        |
| 5                             | 7012540.5      | ✓ | 50kA @ 500V <sub>AC</sub>              | 400                  | 2.0                                         | 10                                         |
| 6.3                           | 7012540.6.3    | ✓ | 50kA @ 600V <sub>AC</sub>              | 400                  | 4                                           | 3.0                                        |
| 8                             | 7012540.8      | ✓ | 50kA @ 600V <sub>AC</sub>              | 350                  | 4.5                                         | 6.5                                        |
| 10                            | 7012540.10     | ✓ | 50kA @ 600V <sub>AC</sub>              | 350                  | 5                                           | 12                                         |
| 12.5                          | 7012540.12.5   | ✓ | 50kA @ 500V <sub>AC</sub>              | 300                  | 7                                           | 18                                         |
| 16                            | 7012540.16     | ✓ | 50kA @ 500V <sub>AC</sub>              | 300                  | 9                                           | 31                                         |
| 20                            | 7012540.20     | ✓ | 50kA @ 500V <sub>AC</sub>              | 300                  | 11                                          | 46                                         |
| 25                            | 7012540.25     |   | 50kA @ 500V <sub>AC</sub>              | 230                  | 11                                          | 87                                         |

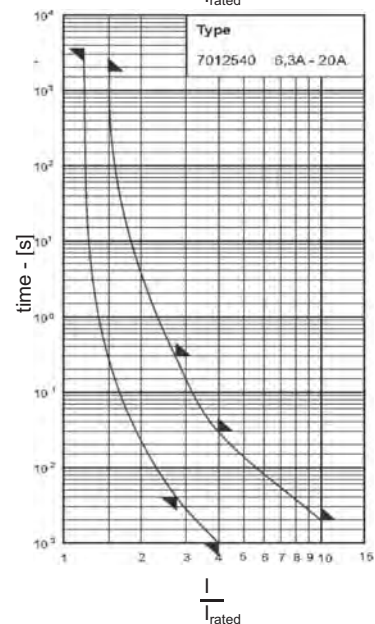
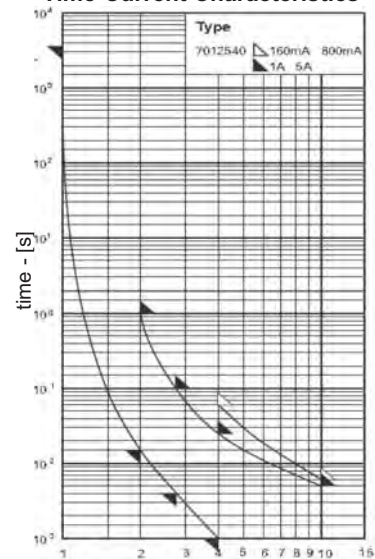
|   |                     |
|---|---------------------|
| 0 | Weight (kg per 100) |
|   | 0.24                |
|   | Units per Package   |
|   | 10                  |

<sup>1)</sup> 20kA @ 500V<sub>DC</sub>

For 6.3A and higher, consideration should be given to heat dissipation

IP - (1 000 pieces)  
e.g. 70 125 40.16IPDimensions  
[mm]

Time-Current Characteristics



| Rated Current | Fusing Time Limits |     |                   |     |                    |      |                 |      |                  |     |
|---------------|--------------------|-----|-------------------|-----|--------------------|------|-----------------|------|------------------|-----|
|               | 1I <sub>n</sub>    |     | 1.2I <sub>n</sub> |     | 2.75I <sub>n</sub> |      | 4I <sub>n</sub> |      | 10I <sub>n</sub> |     |
|               | Min                | Max | Min               | Max | Min                | Max  | Min             | Max  | Min              | Max |
| 160mA - 800mA | 1h                 | —   | —                 | —   | —                  | —    | —               | 60ms | —                | 6ms |
| 1A - 5A       | 1h                 | —   | —                 | —   | 4ms                | 150s | 1ms             | 25ms | —                | 5ms |
| 6.3A - 20A    | —                  | —   | 1h                | —   | 4ms                | 300s | 1ms             | 30ms | —                | 2ms |

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G



RoHS

Rated Voltage

[Un]  
1000V<sub>AC</sub>

Rated Breaking Test

Voltage  
1000V<sub>AC</sub> Capacity  
30kA

Class

aR  
(FF)

Standard(s)

6.3mmx32mm - Ceramic Tube w/Filler, Contacts - Brass, Nickel Plated

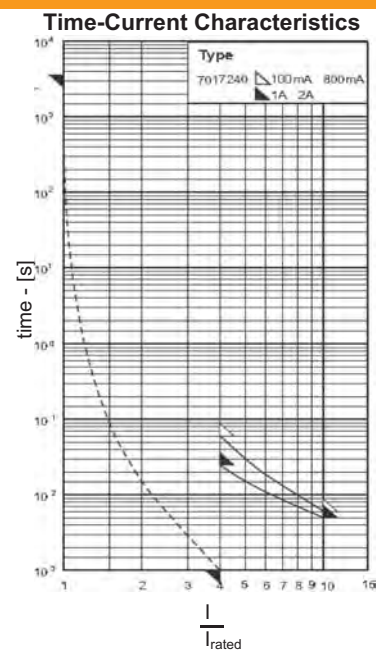
| Rated Current<br>$I_n$<br>[A] | Article Number |   | Rated Breaking Current<br>[A] | Voltage Drop<br>[mV] | Power Dissipation<br>@ 1.0 $I_n$<br>[W] | Pre-arcing<br>$I^2t$<br>[A <sup>2</sup> s] |
|-------------------------------|----------------|---|-------------------------------|----------------------|-----------------------------------------|--------------------------------------------|
| 0.100                         | 7017240.0.100  | ✓ | 30kA @ 1000V <sub>AC/DC</sub> | 2 500                | 0.3                                     | 0.0009                                     |
| 0.125                         | 7017240.0.125  | ✓ | 30kA @ 1000V <sub>AC/DC</sub> | 2 200                | 0.3                                     | 0.0017                                     |
| 0.160                         | 7017240.0.160  | ✓ | 30kA @ 1000V <sub>AC/DC</sub> | 2 000                | 0.4                                     | 0.004                                      |
| 0.200                         | 7017240.0.200  | ✓ | 30kA @ 1000V <sub>AC/DC</sub> | 900                  | 0.2                                     | 0.01                                       |
| 0.250                         | 7017240.0.250  | ✓ | 30kA @ 1000V <sub>AC/DC</sub> | 800                  | 0.2                                     | 0.02                                       |
| 0.315                         | 7017240.0.315  | ✓ | 30kA @ 1000V <sub>AC/DC</sub> | 700                  | 0.3                                     | 0.04                                       |
| 0.400                         | 7017240.0.400  | ✓ | 30kA @ 1000V <sub>AC/DC</sub> | 650                  | 0.3                                     | 0.07                                       |
| 0.500                         | 7017240.0.500  | ✓ | 30kA @ 1000V <sub>AC/DC</sub> | 650                  | 0.4                                     | 0.12                                       |
| 0.630                         | 7017240.0.630  | ✓ | 30kA @ 1000V <sub>AC/DC</sub> | 650                  | 0.5                                     | 0.15                                       |
| 0.800                         | 7017240.0.800  | ✓ | 30kA @ 1000V <sub>AC/DC</sub> | 600                  | 0.5                                     | 0.23                                       |
| 1                             | 7017240.1      | ✓ | 30kA @ 1000V <sub>AC/DC</sub> | 750                  | 0.8                                     | 0.32                                       |
| 1.6                           | 7017240.1.6    | ✓ | 30kA @ 1000V <sub>AC/DC</sub> | 650                  | 1.1                                     | 0.31                                       |
| 2                             | 7017240.2      | ✓ | 30kA @ 1000V <sub>DC</sub>    | 650                  | 1.4                                     | 0.64                                       |

Weight (kg per 100)

Units per Package

IP - (1 000 pieces)

e.g. 70 172 40.1.6IP

Dimensions  
[mm]

Ø 6.35 ± 0.1

31 ± 0.8

| Rated Current | Fusing Time Limits |     |           |     |            |     |         |      |          |     |
|---------------|--------------------|-----|-----------|-----|------------|-----|---------|------|----------|-----|
|               | 1 $I_n$            |     | 1.2 $I_n$ |     | 2.75 $I_n$ |     | 4 $I_n$ |      | 10 $I_n$ |     |
|               | Min                | Max | Min       | Max | Min        | Max | Min     | Max  | Min      | Max |
| 100mA - 800mA | 1h                 | —   | —         | —   | —          | —   | —       | 60ms | —        | 6ms |
| 1A - 2A       | 1h                 | —   | —         | —   | —          | —   | 1ms     | 25ms | —        | 6ms |

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G



RoHS

Rated Voltage

[Un]

400V<sub>AC</sub>

Rated Breaking Test

Voltage

400V<sub>AC</sub>

Capacity

120kA

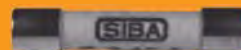
Class

gRL

Standard(s)

IEC 60269-4

VDE 0636 Part4



6.3mmx32mm - Ceramic Tube w/Filler, Contacts - Brass, Nickel Plated

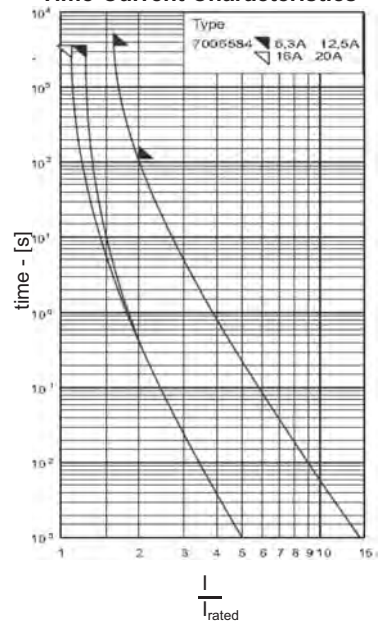
| Rated Current<br>$I_n$<br>[A] | Article Number | UL<br>rec | Rated Breaking<br>Current<br>[A] | Voltage<br>Drop<br>[mV] | Power<br>Dissipation<br>@ $1.0I_n$<br>[w] | Pre-arcing<br>$I^2t$<br>[A <sup>2</sup> s] | Total<br>$I^2t$<br>[A <sup>2</sup> s] |
|-------------------------------|----------------|-----------|----------------------------------|-------------------------|-------------------------------------------|--------------------------------------------|---------------------------------------|
| 6.3                           | 70065 4.6.3    | ✓         | 120kA @ 400V <sub>AC</sub>       | 190                     | 1.2                                       | 1.8                                        | 11                                    |
| 8                             | 7006584.8      | ✓         | 120kA @ 400V <sub>AC</sub>       | 190                     | 1.5                                       | 3.0                                        | 18                                    |
| 10                            | 7006584.10     | ✓         | 120kA @ 400V <sub>AC</sub>       | 180                     | 1.8                                       | 5.1                                        | 31                                    |
| 12.5                          | 7006584.12.5   | ✓         | 120kA @ 400V <sub>AC</sub>       | 150                     | 1.9                                       | 12                                         | 69                                    |
| 16                            | 7006584.16     | ✓         | 120kA @ 400V <sub>AC</sub>       | 150                     | 2.3                                       | 20                                         | 120                                   |
| 20                            | 7006584.20     | ✓         | 120kA @ 400V <sub>AC</sub>       | 160                     | 3.2                                       | 35                                         | 210                                   |

Weight (kg per 100)

Units per Package

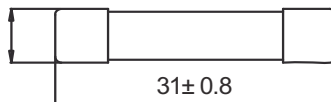
IP - (1 000 pieces)  
e.g. 70 065 84.12.5IP

Time-Current Characteristics



Dimensions  
[mm]

Ø 6.35 ± 0.1



| Rated Current | Fusing Time Limits |     |                    |     |                   |     |                   |      |     |     |
|---------------|--------------------|-----|--------------------|-----|-------------------|-----|-------------------|------|-----|-----|
|               | 1.1I <sub>n</sub>  |     | 1.25I <sub>n</sub> |     | 1.6I <sub>n</sub> |     | 2.0I <sub>n</sub> |      |     |     |
|               | Min                | Max | Min                | Max | Min               | Max | Min               | Max  | Min | Max |
| 6.3A - 12.5A  | —                  | —   | 1h                 | —   | —                 | 1h  | —                 | 120s | —   | —   |
| 16A - 20A     | 1h                 | —   | —                  | —   | —                 | 1h  | 1ms               | 120s | —   | —   |

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**G** **RoHS** **Rated Voltage** **[Un]** **250V<sub>AC</sub>** **Rated Breaking Test** **Voltage** **250V<sub>AC</sub>** **Capacity** **35A** **Class** **F** **Standard(s)** **IEC 60269-2/4**

6.3mmx32mm - Glass Tube, Contacts - Brass, Nickel Plated

| Rated Current<br>$I_n$<br>[A] | Article Number | Rated Breaking Current<br>[A] | Voltage Drop<br>[mV] | Power Dissipation<br>@ $1.15I_n$<br>[W] | Pre-arcing<br>$I^2t$<br>[A <sup>2</sup> s] |
|-------------------------------|----------------|-------------------------------|----------------------|-----------------------------------------|--------------------------------------------|
| 0.050                         | 189000.0.050   | 35A @ 250V <sub>AC</sub>      | 9 600                | 0.7                                     | 0.0003                                     |
| 0.063                         | 189000.0.063   | 35A @ 250V <sub>AC</sub>      | 6 000                | 0.5                                     | 0.0005                                     |
| 0.080                         | 189000.0.080   | 35A @ 250V <sub>AC</sub>      | 5 000                | 0.6                                     | 0.001                                      |
| 0.100                         | 189000.0.100   | 35A @ 250V <sub>AC</sub>      | 4 500                | 0.7                                     | 0.0014                                     |
| 0.125                         | 189000.0.125   | 35A @ 250V <sub>AC</sub>      | 4 000                | 0.7                                     | 0.0034                                     |
| 0.160                         | 189000.0.160   | 35A @ 250V <sub>AC</sub>      | 3 500                | 0.8                                     | 0.007                                      |
| 0.200                         | 189000.0.200   | 35A @ 250V <sub>AC</sub>      | 650                  | 0.2                                     | 0.02                                       |
| 0.250                         | 189000.0.250   | 35A @ 250V <sub>AC</sub>      | 650                  | 0.3                                     | 0.04                                       |
| 0.315                         | 189000.0.315   | 35A @ 250V <sub>AC</sub>      | 600                  | 0.3                                     | 0.08                                       |
| 0.400                         | 189000.0.400   | 35A @ 250V <sub>AC</sub>      | 500                  | 0.3                                     | 0.15                                       |
| 0.500                         | 189000.0.500   | 35A @ 250V <sub>AC</sub>      | 450                  | 0.3                                     | 0.32                                       |
| 0.630                         | 189000.0.630   | 35A @ 250V <sub>AC</sub>      | 400                  | 0.4                                     | 0.26                                       |
| 0.800                         | 189000.0.800   | 35A @ 250V <sub>AC</sub>      | 350                  | 0.4                                     | 0.57                                       |
| 1                             | 189000.1       | 35A @ 250V <sub>AC</sub>      | 300                  | 0.5                                     | 1.1                                        |
| 1.25                          | 189000.1.25    | 35A @ 250V <sub>AC</sub>      | 300                  | 0.6                                     | 2                                          |
| 1.6                           | 189000.1.6     | 35A @ 250V <sub>AC</sub>      | 300                  | 0.7                                     | 3.3                                        |
| 2                             | 189000.2       | 35A @ 250V <sub>AC</sub>      | 250                  | 0.8                                     | 6.2                                        |
| 2.5                           | 189000.2.5     | 35A @ 250V <sub>AC</sub>      | 220                  | 0.9                                     | 13                                         |
| 3.15                          | 189000.3.15    | 35A @ 250V <sub>AC</sub>      | 200                  | 1.1                                     | 24                                         |
| 4                             | 189000.4       | 40A @ 250V <sub>AC</sub>      | 200                  | 1.3                                     | 40                                         |
| 5                             | 189000.5       | 50A @ 250V <sub>AC</sub>      | 180                  | 1.4                                     | 80                                         |
| 6.3                           | 189000.6.3     | 63A @ 250V <sub>AC</sub>      | 170                  | 1.6                                     | 150                                        |
| 8                             | 189000.8       | 80A @ 250V <sub>AC</sub>      | 160                  | 2.0                                     | 240                                        |
| 10                            | 189000.10      | 100A @ 250V <sub>AC</sub>     | 150                  | 2.3                                     | 500                                        |
| 12.5                          | 189000.12.5    | 125A @ 250V <sub>AC</sub>     | 140                  | 2.5                                     | 650                                        |
| 16                            | 189000.16      | 160A @ 250V <sub>AC</sub>     | 130                  | 2.8                                     | 1 250                                      |
| 20                            | 189000.20      | 200A @ 250V <sub>AC</sub>     | 130                  | 4.0                                     | 1 600                                      |

Weight (kg per 100)

For 6.3A and higher, consideration should be given to heat dissipation

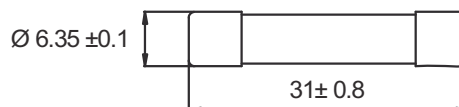
Units per Package

10

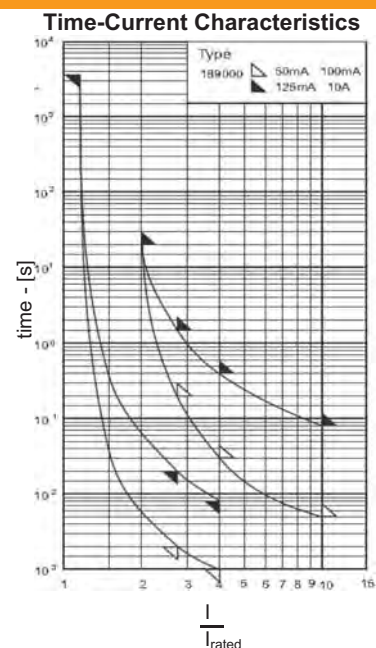
AK - with assembled leaded caps

IP - (1 000 pieces)

e.g. 189000.3.15IP


 Dimensions  
 [mm]


| Rated Current | Fusing Time Limits |     |                 |     |                    |       |                 |       |                  |      |
|---------------|--------------------|-----|-----------------|-----|--------------------|-------|-----------------|-------|------------------|------|
|               | 1.5I <sub>n</sub>  |     | 2I <sub>n</sub> |     | 2.75I <sub>n</sub> |       | 4I <sub>n</sub> |       | 10I <sub>n</sub> |      |
|               | Min                | Max | Min             | Max | Min                | Max   | Min             | Max   | Min              | Max  |
| 6.3A - 12.5A  | —                  | —   | —               | 20s | 2s                 | 200ms | 1ms             | 30s   | —                | 5ms  |
| 16A - 20A     | —                  | —   | —               | 20s | 20ms               | 1.5s  | 8ms             | 400ms | —                | 80ms |



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G



RoHS

Rated Voltage

[Un]

500V<sub>AC</sub>440V<sub>DC</sub>

Rated Breaking Test

Voltage

500V<sub>AC</sub>440V<sub>AC</sub>

Capacity

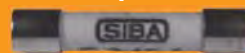
50kA

1.5kA

Class

F

Standard(s)



6.3mmx32mm - Ceramic Tube w/Filler, Contacts - Brass, Nickel Plated

| Rated Current<br>$I_n$<br>[A] | Article Number | UL<br>rec | Rated Breaking<br>Current<br>[A]        | Voltage<br>Drop<br>[mV] | Dissipation<br>@ $1.5I_n$<br>[W] | Pre-arcing<br>$I^2t$<br>[A <sup>2</sup> s] |
|-------------------------------|----------------|-----------|-----------------------------------------|-------------------------|----------------------------------|--------------------------------------------|
| 0.160                         | 189020.0.160   | ✓         | 50kA @ 500V <sub>AC</sub> <sup>1</sup>  | 7 000                   | 2.5                              | 0.0015                                     |
| 0.200                         | 189020.0.200   | ✓         | 50kA @ 500V <sub>AC</sub> <sup>1</sup>  | 6 500                   | 2.9                              | 0.0035                                     |
| 0.250                         | 189020.0.250   | ✓         | 50kA @ 500V <sub>AC</sub> <sup>1</sup>  | 6 000                   | 3.4                              | 0.0085                                     |
| 0.315                         | 189020.0.315   | ✓         | 50kA @ 500V <sub>AC</sub> <sup>1</sup>  | 1 000                   | 0.9                              | 0.036                                      |
| 0.400                         | 189020.0.400   | ✓         | 50kA @ 500V <sub>AC</sub> <sup>1</sup>  | 900                     | 1.0                              | 0.07                                       |
| 0.500                         | 189020.0.500   | ✓         | 50kA @ 500V <sub>AC</sub> <sup>1</sup>  | 850                     | 1.1                              | 0.19                                       |
| 0.630                         | 189020.0.630   | ✓         | 50kA @ 500V <sub>AC</sub> <sup>1</sup>  | 700                     | 1.3                              | 0.35                                       |
| 0.800                         | 189020.0.800   | ✓         | 50kA @ 500V <sub>AC</sub> <sup>1</sup>  | 600                     | 1.4                              | 0.49                                       |
| 1                             | 189020.1       | ✓         | 50kA @ 500V <sub>AC</sub> <sup>1</sup>  | 400                     | 1.2                              | 0.4                                        |
| 1.25                          | 189020.1.25    | ✓         | 50kA @ 500V <sub>AC</sub> <sup>1</sup>  | 300                     | 1.3                              | 0.8                                        |
| 1.6                           | 189020.1.6     | ✓         | 50kA @ 500V <sub>AC</sub> <sup>1</sup>  | 300                     | 1.4                              | 1.5                                        |
| 2                             | 189020.2       | ✓         | 50kA @ 500V <sub>AC</sub> <sup>1</sup>  | 280                     | 1.6                              | 2.5                                        |
| 2.5                           | 189020.2.5     | ✓         | 50kA @ 500V <sub>AC</sub> <sup>1</sup>  | 260                     | 1.8                              | 5                                          |
| 3.15                          | 189020.3.15    | ✓         | 50kA @ 500V <sub>AC</sub> <sup>1</sup>  | 240                     | 2.3                              | 9                                          |
| 4                             | 189020.4       | ✓         | 50kA @ 500V <sub>AC</sub> <sup>1</sup>  | 220                     | 2.6                              | 18                                         |
| 5                             | 189020.5       | ✓         | 50kA @ 500V <sub>AC</sub> <sup>1</sup>  | 190                     | 2.9                              | 40                                         |
| 6.3                           | 189020.6.3     | ✓         | 50kA @ 500V <sub>AC</sub> <sup>1</sup>  | 170                     | 3.2                              | 80                                         |
| 8                             | 189020.8       |           | 1.5kA @ 500V <sub>AC</sub> <sup>2</sup> | 160                     | 3.7                              | 150                                        |
| 10                            | 189020.10      |           | 1.5kA @ 500V <sub>AC</sub> <sup>2</sup> | 150                     | 4.0                              | 240                                        |
| 12.5                          | 189020.12.5    |           | 1.5kA @ 500V <sub>AC</sub> <sup>2</sup> | 140                     | 5.5                              | 500                                        |
| 16                            | 189020.16      |           | 1.5kA @ 500V <sub>AC</sub> <sup>2</sup> | 130                     | 6.5                              | 920                                        |
| 20                            | 189020.20      |           | 1.5kA @ 440V <sub>AC</sub> <sup>2</sup> | 110                     | 8.4                              | 1 500                                      |
| 25                            | 189020.25      |           | 1.5kA @ 440V <sub>AC</sub> <sup>2</sup> | 110                     | 11                               | 3 100                                      |

Weight (kg per 100)

<sup>1)</sup> cosφ = 0.3, 1.5kA @ 450V<sub>DC</sub>, resistive<sup>2)</sup> cosφ = 1, 1.5kA @ 125V<sub>DC</sub>

Units per Package

10

For 6.3A and higher, consideration should be given to heat dissipation

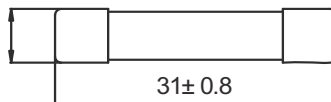
AK - with assembled leaded caps

IP - (1 000 pieces)

e.g. 189020.3.15AK

Dimensions  
[mm]

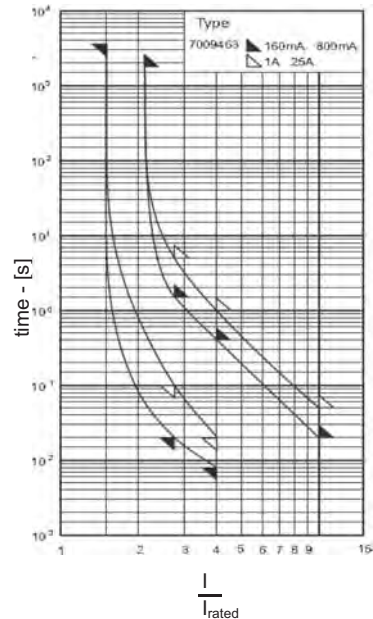
Ø 6.35 ± 0.1



SMD version available 1A - 5A

| Rated Current | Fusing Time Limits |     |                   |     |                    |      |                 |       |                  |      |
|---------------|--------------------|-----|-------------------|-----|--------------------|------|-----------------|-------|------------------|------|
|               | 1.5I <sub>n</sub>  |     | 2.1I <sub>n</sub> |     | 2.75I <sub>n</sub> |      | 4I <sub>n</sub> |       | 10I <sub>n</sub> |      |
|               | Min                | Max | Min               | Max | Min                | Max  | Min             | Max   | Min              | Max  |
| 160mA - 800mA | 1h                 | —   | —                 | 30m | 20s                | 1.5s | 8ms             | 400ms | —                | 20ms |
| 1A - 25A      | 1h                 | —   | —                 | 30m | 100ms              | 5s   | 20ms            | 1s    | —                | 50ms |

Time-Current Characteristics



G



Rated Voltage

 $[U_n]$   
 600V<sub>AC</sub>

Rated Breaking Test

 Voltage  
 Capacity  
 500V<sub>AC</sub> 50kA

Class

F

Standard(s)



6.3mmx32mm - Ceramic Tube w/Filler, Contacts - Brass, Nickel Plated

| Rated Current<br>$I_n$<br>[A] | Article Number | Rated Breaking Current<br>[A] | Voltage Drop<br>[mV] | Power Dissipation<br>@ 1.5 $I_n$<br>[w] | Pre-arcing<br>$I^2t$<br>[A <sup>2</sup> s] |
|-------------------------------|----------------|-------------------------------|----------------------|-----------------------------------------|--------------------------------------------|
| 0.200                         | 7009463.0.200  | 50kA @ 600V <sub>AC</sub>     | 6 500                | 2.9                                     | 0.0035                                     |
| 0.400                         | 7009463.0.400  | 50kA @ 600V <sub>AC</sub>     | 900                  | 1.0                                     | 0.07                                       |
| 0.500                         | 7009463.0.500  | 50kA @ 600V <sub>AC</sub>     | 800                  | 1.1                                     | 0.19                                       |
| 0.800                         | 7009463.0.800  | 50kA @ 600V <sub>AC</sub>     | 600                  | 1.4                                     | 0.49                                       |
| 1                             | 7009463.1      | 50kA @ 600V <sub>AC</sub>     | 400                  | 1.2                                     | 0.4                                        |
| 2                             | 7009463.2      | 50kA @ 600V <sub>AC</sub>     | 280                  | 1.6                                     | 2.5                                        |
| 3                             | 7009463.3      | 50kA @ 600V <sub>AC</sub>     | 260                  | 2.2                                     | 7.5                                        |
| 5                             | 7009463.5      | 50kA @ 600V <sub>AC</sub>     | 190                  | 2.9                                     | 40                                         |
| 7                             | 7009463.7      | 50kA @ 600V <sub>AC</sub>     | 150                  | 3.8                                     | 100                                        |
| 10                            | 7009463.10     | 50kA @ 600V <sub>AC</sub>     | 150                  | 4.0                                     | 240                                        |

Weight (kg per 100)

0.12

Units per Package

10

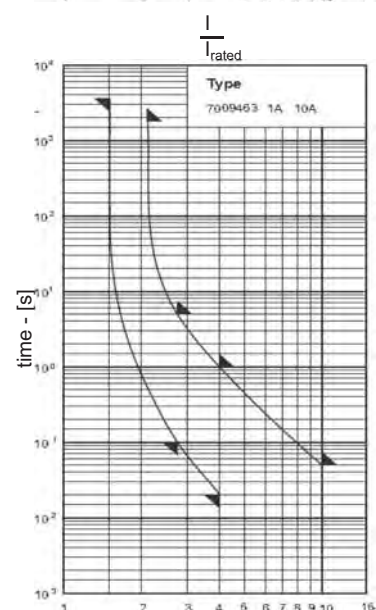
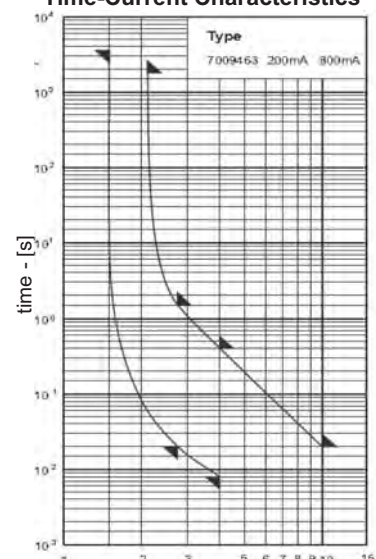
For 7A and higher, consideration should be given to heat dissipation

AK - with assembled leaded caps

IP - (1 000 pieces)

e.g. 70 094 63.10IP

Time-Current Characteristics

Dimensions  
[mm]

Ø 6.35 ± 0.1

31 ± 0.8

| Rated Current | Fusing Time Limits |     |           |     |            |      |         |       |          |      |
|---------------|--------------------|-----|-----------|-----|------------|------|---------|-------|----------|------|
|               | 1.5 $I_n$          |     | 2.1 $I_n$ |     | 2.75 $I_n$ |      | 4 $I_n$ |       | 10 $I_n$ |      |
|               | Min                | Max | Min       | Max | Min        | Max  | Min     | Max   | Min      | Max  |
| 200mA - 800mA | 1h                 | —   | —         | 30m | 20s        | 1.5s | 8ms     | 400ms | —        | 20ms |
| 1A - 10A      | 1h                 | —   | —         | 30m | 100ms      | 5s   | 20ms    | 1s    | —        | 50ms |

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G



Rated Voltage

 $[U_n]$   
 $250V_{AC}$ 

Rated Breaking Test

Voltage  
 $250V_{AC}$   
Capacity  
 $35A$ 

Class

T

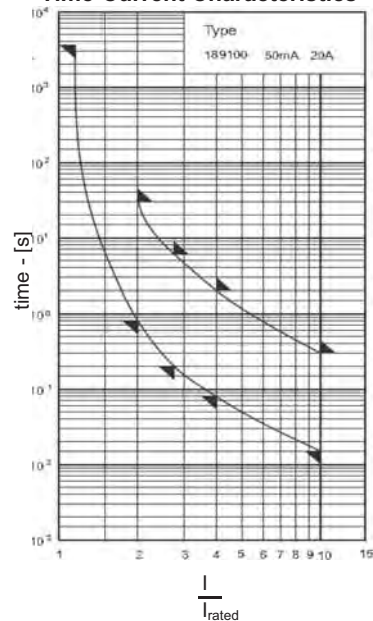
Standard(s)



6.3mmx32mm - Glass Tube, Contacts - Brass, Nickel Plated

| Rated Current<br>$I_n$<br>[A] | Article Number | Rated Breaking Current<br>[A] | Voltage Drop<br>[mV] | Power Dissipation<br>@ $1.5I_n$<br>[W] | Pre-arcing<br>$I^2t$<br>[A <sup>2</sup> s] |
|-------------------------------|----------------|-------------------------------|----------------------|----------------------------------------|--------------------------------------------|
| 0.050                         | 189100.0.050   | 35A @ $250V_{AC}$             | 3 000                | 0.3                                    | 0.035                                      |
| 0.063                         | 189100.0.063   | 35A @ $250V_{AC}$             | 2 500                | 0.3                                    | 0.04                                       |
| 0.080                         | 189100.0.080   | 35A @ $250V_{AC}$             | 2 000                | 0.3                                    | 0.08                                       |
| 0.100                         | 189100.0.100   | 35A @ $250V_{AC}$             | 1 500                | 0.3                                    | 0.17                                       |
| 0.125                         | 189100.0.125   | 35A @ $250V_{AC}$             | 1 200                | 0.3                                    | 0.26                                       |
| 0.160                         | 189100.0.160   | 35A @ $250V_{AC}$             | 1 100                | 0.4                                    | 0.44                                       |
| 0.200                         | 189100.0.200   | 35A @ $250V_{AC}$             | 1 100                | 0.4                                    | 0.6                                        |
| 0.250                         | 189100.0.250   | 35A @ $250V_{AC}$             | 900                  | 0.5                                    | 0.6                                        |
| 0.315                         | 189100.0.315   | 35A @ $250V_{AC}$             | 300                  | 0.2                                    | 0.35                                       |
| 0.400                         | 189100.0.400   | 35A @ $250V_{AC}$             | 300                  | 0.2                                    | 0.49                                       |
| 0.500                         | 189100.0.500   | 35A @ $250V_{AC}$             | 300                  | 0.3                                    | 0.9                                        |
| 0.630                         | 189100.0.630   | 35A @ $250V_{AC}$             | 300                  | 0.3                                    | 1.4                                        |
| 0.800                         | 189100.0.800   | 35A @ $250V_{AC}$             | 250                  | 0.4                                    | 3.2                                        |
| 1                             | 189100.1       | 35A @ $250V_{AC}$             | 250                  | 0.4                                    | 6.5                                        |
| 1.25                          | 189100.1.25    | 35A @ $250V_{AC}$             | 250                  | 0.4                                    | 5                                          |
| 1.6                           | 189100.1.6     | 35A @ $250V_{AC}$             | 200                  | 0.5                                    | 10                                         |
| 2                             | 189100.2       | 35A @ $250V_{AC}$             | 200                  | 0.6                                    | 16                                         |
| 2.5                           | 189100.2.5     | 35A @ $250V_{AC}$             | 220                  | 0.7                                    | 24                                         |
| 3.15                          | 189100.3.15    | 35A @ $250V_{AC}$             | 200                  | 0.8                                    | 42                                         |
| 4                             | 189100.4       | 40A @ $250V_{AC}$             | 200                  | 1.0                                    | 70                                         |
| 5                             | 189100.5       | 50A @ $250V_{AC}$             | 200                  | 1.3                                    | 130                                        |
| 6.3                           | 189100.6.3     | 63A @ $250V_{AC}$             | 200                  | 1.6                                    | 230                                        |
| 8                             | 189100.8       | 80A @ $250V_{AC}$             | 200                  | 2.0                                    | 370                                        |
| 10                            | 189100.10      | 100A @ $250V_{AC}$            | 150                  | 2.3                                    | 630                                        |
| 12.5                          | 189100.12.5    | 125A @ $250V_{AC}$            | 150                  | 2.8                                    | 820                                        |
| 15                            | 189100.15      | 150A @ $250V_{AC}$            | 150                  | 2.9                                    | 925                                        |
| 16                            | 189100.16      | 160A @ $250V_{AC}$            | 150                  | 3.0                                    | 1 200                                      |
| 20                            | 189100.20      | 200A @ $250V_{AC}$            | 150                  | 4.0                                    | 1 600                                      |

Time-Current Characteristics



Weight (kg per 100)

For 6.3A and higher, consideration should be given to heat dissipation

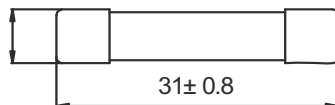
Units per Package

10

AK - with assembled leaded caps

IP - (1 000 pieces)

e.g. 189100.2IP

Dimensions  
[mm] $\varnothing 6.35 \pm 0.1$ 

31 ± 0.8

| Rated Current | Fusing Time Limits |     |                 |     |                    |     |                 |     |                  |       |
|---------------|--------------------|-----|-----------------|-----|--------------------|-----|-----------------|-----|------------------|-------|
|               | 1.5I <sub>n</sub>  |     | 2I <sub>n</sub> |     | 2.75I <sub>n</sub> |     | 4I <sub>n</sub> |     | 10I <sub>n</sub> |       |
|               | Min                | Max | Min             | Max | Min                | Max | Min             | Max | Min              | Max   |
| 500mA - 20A   | —                  | —   | 800ms           | 30s | 200ms              | 6s  | 80ms            | 2s  | 15ms             | 300ms |

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**G**   **Rated Voltage** **Rated Breaking Test** **Class** **Standard(s)**

**[Un]** **Voltage** **Capacity** **T**

**500V<sub>AC</sub> - 250V<sub>AC</sub>** **500V<sub>AC</sub>** **1.5kA** **189140**

**400V<sub>DC</sub>** **400V<sub>DC</sub>** **1.5kA** **H 500V 5A**

**6.3mmx32mm - Ceramic Tube w/Filler, Contacts - Brass, Nickel Plated**

| Rated Current<br>$I_n$<br>[A] | Article Number | UL<br>rec | Rated Breaking<br>Current<br>[A]        | Voltage<br>Drop<br>[mV] | Power<br>Dissipation<br>@ $1.5I_n$<br>[W] | Pre-arcing<br>$I^2t$<br>[A <sup>2</sup> s] |
|-------------------------------|----------------|-----------|-----------------------------------------|-------------------------|-------------------------------------------|--------------------------------------------|
| 0.100                         | 189140.0.100   | ✓         | 1.5kA @ 500V <sub>AC</sub> <sup>1</sup> | 3 600                   | 1.3                                       | 0.04                                       |
| 0.125                         | 189140.0.125   | ✓         | 1.5kA @ 500V <sub>AC</sub> <sup>1</sup> | 3 400                   | 1.4                                       | 0.06                                       |
| 0.160                         | 189140.0.160   | ✓         | 1.5kA @ 500V <sub>AC</sub> <sup>1</sup> | 3 000                   | 1.5                                       | 0.1                                        |
| 0.200                         | 189140.0.200   | ✓         | 1.5kA @ 500V <sub>AC</sub> <sup>1</sup> | 2 500                   | 1.6                                       | 0.18                                       |
| 0.250                         | 189140.0.250   | ✓         | 1.5kA @ 500V <sub>AC</sub> <sup>1</sup> | 2 000                   | 1.7                                       | 0.25                                       |
| 0.315                         | 189140.0.315   | ✓         | 1.5kA @ 500V <sub>AC</sub> <sup>1</sup> | 1 800                   | 1.8                                       | 0.45                                       |
| 0.400                         | 189140.0.400   | ✓         | 1.5kA @ 500V <sub>AC</sub> <sup>1</sup> | 1 600                   | 2.0                                       | 0.45                                       |
| 0.500                         | 189140.0.500   | ✓         | 1.5kA @ 500V <sub>AC</sub> <sup>1</sup> | 450                     | 0.6                                       | 0.35                                       |
| 0.630                         | 189140.0.630   | ✓         | 1.5kA @ 500V <sub>AC</sub> <sup>1</sup> | 400                     | 0.7                                       | 0.49                                       |
| 0.800                         | 189140.0.800   | ✓         | 1.5kA @ 500V <sub>AC</sub> <sup>1</sup> | 350                     | 0.8                                       | 0.9                                        |
| 1                             | 189140.1       | ✓         | 1.5kA @ 500V <sub>AC</sub> <sup>1</sup> | 350                     | 0.9                                       | 1.4                                        |
| 1.25                          | 189140.1.25    | ✓         | 1.5kA @ 500V <sub>AC</sub> <sup>1</sup> | 300                     | 1.0                                       | 3.2                                        |
| 1.6                           | 189140.1.6     | ✓         | 1.5kA @ 500V <sub>AC</sub> <sup>1</sup> | 200                     | 1.1                                       | 5.2                                        |
| 2                             | 189140.2       | ✓         | 1.5kA @ 500V <sub>AC</sub> <sup>1</sup> | 180                     | 1.2                                       | 10                                         |
| 2.5                           | 189140.2.5     | ✓         | 1.5kA @ 500V <sub>AC</sub> <sup>1</sup> | 160                     | 1.3                                       | 19                                         |
| 3.15                          | 189140.3.15    | ✓         | 1.5kA @ 500V <sub>AC</sub> <sup>2</sup> | 150                     | 1.4                                       | 37                                         |
| 4                             | 189140.4       | ✓         | 1.5kA @ 500V <sub>AC</sub> <sup>2</sup> | 140                     | 1.5                                       | 68                                         |
| 5                             | 189140.5       | ✓         | 1.5kA @ 500V <sub>AC</sub> <sup>2</sup> | 135                     | 2.2                                       | 80                                         |
| 6.3                           | 189140.6.3     | ✓         | 1.5kA @ 500V <sub>AC</sub> <sup>2</sup> | 110                     | 2.2                                       | 215                                        |
| 8                             | 189140.8       | ✓         | 1.5kA @ 500V <sub>AC</sub> <sup>2</sup> | 110                     | 2.6                                       | 370                                        |
| 10                            | 189140.10      | ✓         | 1.5kA @ 500V <sub>AC</sub> <sup>2</sup> | 100                     | 3.0                                       | 620                                        |
| 12.5                          | 189140.12.5    | ✓         | 1.5kA @ 500V <sub>AC</sub> <sup>3</sup> | 100                     | 3.5                                       | 1 300                                      |
| 16                            | 189140.16      | ✓         | 1.5kA @ 500V <sub>AC</sub> <sup>3</sup> | 100                     | 4                                         | 2 500                                      |
| 20                            | 189140.20      |           | 1.5kA @ 500V <sub>AC</sub> <sup>3</sup> | 100                     | 6                                         | 3 400                                      |
| 25                            | 189140.25      |           | 1.5kA @ 500V <sub>AC</sub> <sup>3</sup> | 100                     | 8                                         | 5 600                                      |
| 32                            | 189140.32      |           | 1.5kA @ 500V <sub>AC</sub> <sup>3</sup> | 80                      | 10                                        | 3 900                                      |

Weight (kg per 100)

Units per Package

10

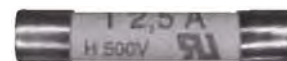
AK - with assembled leaded caps

IP - (1 000 pieces)

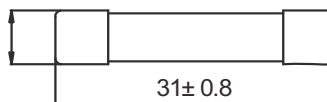
e.g. 189140.1.6IP

Dimensions

[mm]



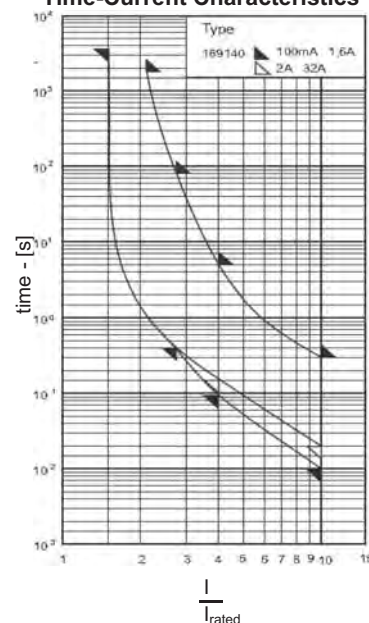
Ø 6.35 ± 0.1



SMD version also available 1A - 6.3A

| Rated Current | Fusing Time Limits |     |                 |     |                    |     |                 |     |                  |       |
|---------------|--------------------|-----|-----------------|-----|--------------------|-----|-----------------|-----|------------------|-------|
|               | 1.5I <sub>n</sub>  |     | 2I <sub>n</sub> |     | 2.75I <sub>n</sub> |     | 4I <sub>n</sub> |     | 10I <sub>n</sub> |       |
|               | Min                | Max | Min             | Max | Min                | Max | Min             | Max | Min              | Max   |
| 100mA - 1.6A  | 1h                 | —   | 30m             | —   | 400ms              | 80s | 95ms            | 5s  | 10ms             | 300ms |
| 2A - 32A      | 1h                 | —   | 30m             | —   | 400ms              | 80s | 150ms           | 5s  | 20ms             | 300ms |

Time-Current Characteristics



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G



Rated Voltage

[Un]

250V<sub>AC</sub>125V<sub>AC</sub>

Rated Breaking Test

Voltage

250V<sub>AC</sub>125V<sub>AC</sub>

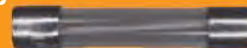
Capacity

100A

10kA

Class

T/D



Standard(s)

UL 248-14

CSA C22.s

No. 248-14

6.3mmx32mm - Glass Tube, Contacts - Brass, Nickel Plated

| Rated Current<br>$I_n$<br>[A] | Article Number | Rated Breaking Current<br>[A]          | Voltage Drop<br>[mV] | Power Dissipation<br>@ 1.0I <sub>n</sub><br>[mw] | Pre-arcing<br>$I^2t$<br>[A <sup>2</sup> s] |
|-------------------------------|----------------|----------------------------------------|----------------------|--------------------------------------------------|--------------------------------------------|
| 0.300                         | 189500.0.300   | 100A @ 250V <sub>AC</sub> <sup>1</sup> | 870                  | 0.26                                             | 1.5                                        |
| 0.375                         | 189500.0.375   | 100A @ 250V <sub>AC</sub> <sup>1</sup> | 840                  | 0.32                                             | 2.5                                        |
| 0.400                         | 189500.0.400   | 100A @ 250V <sub>AC</sub> <sup>1</sup> | 730                  | 0.29                                             | 2.5                                        |
| 0.500                         | 189500.0.500   | 100A @ 250V <sub>AC</sub> <sup>1</sup> | 660                  | 0.33                                             | 5.4                                        |
| 0.600                         | 189500.0.600   | 100A @ 250V <sub>AC</sub> <sup>1</sup> | 600                  | 0.36                                             | 3.1                                        |
| 0.700                         | 189500.0.700   | 100A @ 250V <sub>AC</sub> <sup>1</sup> | 580                  | 0.41                                             | 4.5                                        |
| 0.800                         | 189500.0.800   | 100A @ 250V <sub>AC</sub> <sup>1</sup> | 500                  | 0.40                                             | 6.4                                        |
| 1                             | 189500.1       | 100A @ 250V <sub>AC</sub> <sup>1</sup> | 450                  | 0.45                                             | 13                                         |
| 1.25                          | 189500.1.25    | 100A @ 250V <sub>AC</sub> <sup>1</sup> | 400                  | 0.50                                             | 19                                         |
| 1.5                           | 189500.1.5     | 100A @ 250V <sub>AC</sub> <sup>1</sup> | 370                  | 0.56                                             | 25                                         |
| 1.6                           | 189500.1.6     | 100A @ 250V <sub>AC</sub> <sup>1</sup> | 350                  | 0.56                                             | 32                                         |
| 2                             | 189500.2       | 100A @ 250V <sub>AC</sub> <sup>1</sup> | 330                  | 0.66                                             | 55                                         |
| 2.5                           | 189500.2.5     | 100A @ 250V <sub>AC</sub> <sup>1</sup> | 290                  | 0.73                                             | 90                                         |
| 2.8                           | 189500.2.8     | 100A @ 250V <sub>AC</sub> <sup>1</sup> | 270                  | 0.76                                             | 120                                        |
| 3                             | 189500.3       | 100A @ 250V <sub>AC</sub> <sup>1</sup> | 250                  | 0.75                                             | 160                                        |
| 3.2                           | 189500.3.2     | 100A @ 250V <sub>AC</sub> <sup>1</sup> | 220                  | 0.70                                             | 350                                        |
| 4                             | 189500.4       | 10kA @ 125V <sub>AC</sub> <sup>2</sup> | 200                  | 0.80                                             | 590                                        |
| 5                             | 189500.5       | 10kA @ 125V <sub>AC</sub> <sup>2</sup> | 200                  | 1.0                                              | 600                                        |
| 6.25                          | 189500.6.25    | 10kA @ 125V <sub>AC</sub> <sup>2</sup> | 200                  | 1.3                                              | 1 300                                      |

Weight (kg per 100) <sup>1)</sup> 10kA@125V<sub>AC</sub>, 100A@250V<sub>AC</sub> - cosφ = 0.7 - 0.8<sup>2)</sup> 10kA@125V<sub>AC</sub>, cosφ = 0.7 - 0.8

Units per Package

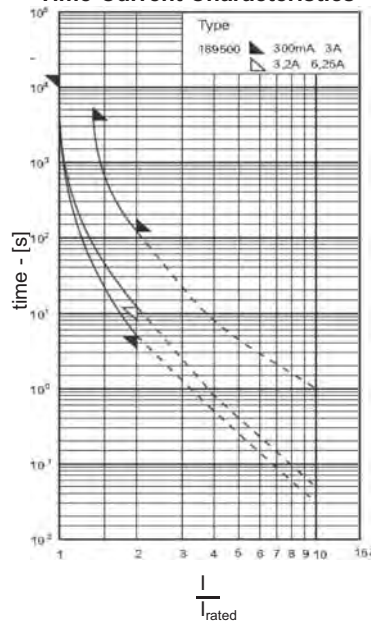
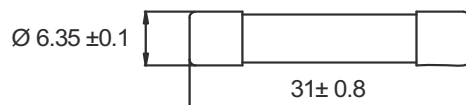
10

AK - with assembled leaded caps

IP - (1 000 pieces)

e.g. 189500.1.25IP

Time-Current Characteristics

Dimensions  
[mm]

| Rated Current | Fusing Time Limits |     |                    |     |                 |     |     |     |     |     |
|---------------|--------------------|-----|--------------------|-----|-----------------|-----|-----|-----|-----|-----|
|               | 1I <sub>n</sub>    |     | 1.35I <sub>n</sub> |     | 2I <sub>n</sub> |     |     |     |     |     |
|               | Min                | Max | Min                | Max | Min             | Max | Min | Max | Min | Max |
| 300mA - 3A    | 4h                 | —   | —                  | 1h  | 5s              | —   | —   | —   | —   | —   |
| 3.2A - 6.25A  | 4h                 | —   | —                  | 1h  | 12s             | —   | —   | —   | —   | —   |

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| G |  | Rated Voltage              | Rated Breaking Test           |                  | Class | Standard(s)              |
|---|--|----------------------------|-------------------------------|------------------|-------|--------------------------|
|   |  | [Un]<br>400V <sub>AC</sub> | Voltage<br>400V <sub>AC</sub> | Capacity<br>30kA | gPV   | Following<br>IEC 60269-4 |

6.3mmx32mm - Ceramic Tube w/Filler, Contacts - Brass, Nickel Plated

| Rated Current<br>$I_n$<br>[A] | Article Number | Rated Breaking Current<br>[A] | Voltage Drop<br>[mV] | Power Dissipation<br>@ 1.0 $I_n$<br>[W] | Pre-arcing<br>$I^2t$<br>[A <sup>2</sup> s] | Total<br>$I^2t$<br>[A <sup>2</sup> s] |
|-------------------------------|----------------|-------------------------------|----------------------|-----------------------------------------|--------------------------------------------|---------------------------------------|
| 1                             | 7006526.1      | 30kA @ 400V <sub>DC</sub>     | 600                  | 0.60                                    | 0.58                                       | 1.1                                   |
| 1.25                          | 7006526.1.25   | 30kA @ 400V <sub>DC</sub>     | 500                  | 0.63                                    | 1.1                                        | 2.2                                   |
| 1.6                           | 7006526.1.6    | 30kA @ 400V <sub>DC</sub>     | 375                  | 0.6                                     | 3.2                                        | 6.5                                   |
| 2                             | 7006526.2      | 30kA @ 400V <sub>DC</sub>     | 300                  | 0.6                                     | 7.1                                        | 15                                    |
| 2.5                           | 7006526.2.5    | 30kA @ 400V <sub>DC</sub>     | 270                  | 0.7                                     | 14                                         | 30                                    |
| 3.15                          | 7006526.3      | 30kA @ 400V <sub>DC</sub>     | 250                  | 0.8                                     | 11                                         | 22                                    |
| 4                             | 7006526.4      | 30kA @ 400V <sub>DC</sub>     | 220                  | 0.9                                     | 23                                         | 50                                    |
| 5                             | 7006526.5      | 30kA @ 400V <sub>DC</sub>     | 210                  | 1.1                                     | 42                                         | 85                                    |
| 6.3                           | 7006526.6.3    | 30kA @ 400V <sub>DC</sub>     | 200                  | 1.3                                     | 83                                         | 150                                   |
| 8                             | 7006526.8      | 30kA @ 400V <sub>DC</sub>     | 175                  | 1.4                                     | 150                                        | 300                                   |

Weight (kg per 100)

Units per Package

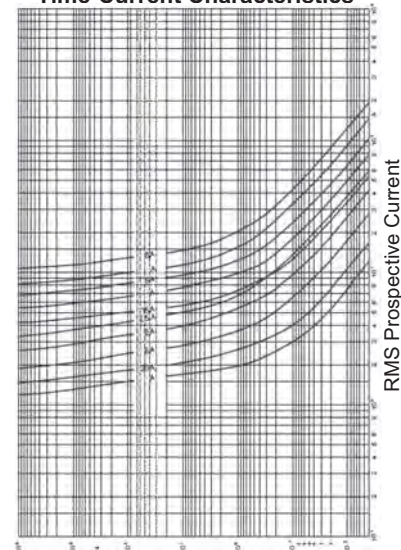
10

AK - with assembled leaded caps

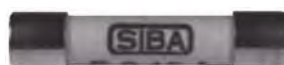
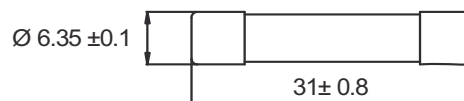
IP - (1 000 pieces)

e.g. 70 065 26.10IP

Time-Current Characteristics



Virtual pre-arcing time[s]

Dimensions  
[mm]

| Rated Current | Fusing Time Limits |     |            |     |     |     |     |     |     |     |
|---------------|--------------------|-----|------------|-----|-----|-----|-----|-----|-----|-----|
|               | 1.1 $I_n$          |     | 1.45 $I_n$ |     |     |     |     |     |     |     |
|               | Min                | Max | Min        | Max | Min | Max | Min | Max | Min | Max |
| 300mA - 8A    | 1h                 | —   | —          | 1h  | —   | —   | —   | —   | —   | —   |

G



Rated Voltage

[Un]

500V<sub>AC</sub>

Rated Breaking Test

Voltage

500V<sub>AC</sub>

Capacity

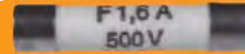
50A

Class

M/F

Standard(s)

DIN 41686

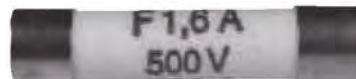


8mmx40mm - Glass Tube(M), Ceramic Tube(F), Contacts - Brass, Nickel Plated

| Rated Current<br>$I_n$<br>[A] | Article Number |  | Rated Breaking Current<br>[A] | Voltage Drop<br>[mV] | Power Dissipation<br>@ 1.0I <sub>n</sub><br>[W] | Pre-arcing<br>$I^2t$<br>[A <sup>2</sup> s] |  |
|-------------------------------|----------------|--|-------------------------------|----------------------|-------------------------------------------------|--------------------------------------------|--|
| M                             |                |  |                               |                      |                                                 |                                            |  |
| 0.032                         | 183000.0.032   |  | 80A @ 500V <sub>AC</sub>      | 2 300                | Data On Request                                 |                                            |  |
| 0.050                         | 183000.0.050   |  | 80A @ 500V <sub>AC</sub>      | 1 600                |                                                 |                                            |  |
| 0.063                         | 183000.0.063   |  | 80A @ 500V <sub>AC</sub>      | 1 300                |                                                 |                                            |  |
| 0.080                         | 183000.0.080   |  | 80A @ 500V <sub>AC</sub>      | 950                  |                                                 |                                            |  |
| 0.100                         | 183000.0.100   |  | 80A @ 500V <sub>AC</sub>      | 700                  |                                                 |                                            |  |
| F                             |                |  |                               |                      |                                                 |                                            |  |
| 0.125                         | 183000.0.125   |  | 1.5kA @ 500V <sub>AC</sub>    | 6 300                |                                                 |                                            |  |
| 0.160                         | 183000.0.160   |  | 1.5kA @ 500V <sub>AC</sub>    | 4 700                |                                                 |                                            |  |
| 0.200                         | 183000.0.200   |  | 1.5kA @ 500V <sub>AC</sub>    | 3 600                |                                                 |                                            |  |
| 0.250                         | 183000.0.250   |  | 1.5kA @ 500V <sub>AC</sub>    | 2 800                |                                                 |                                            |  |
| 0.315                         | 183000.0.315   |  | 1.5kA @ 500V <sub>AC</sub>    | 2 100                |                                                 |                                            |  |
| 0.400                         | 183000.0.400   |  | 1.5kA @ 500V <sub>AC</sub>    | 1 600                |                                                 |                                            |  |
| 0.500                         | 183000.0.500   |  | 1.5kA @ 500V <sub>AC</sub>    | 1 250                |                                                 |                                            |  |
| 0.630                         | 183000.0.630   |  | 1.5kA @ 500V <sub>AC</sub>    | 1 000                |                                                 |                                            |  |
| 0.800                         | 183000.0.800   |  | 1.5kA @ 500V <sub>AC</sub>    | 800                  |                                                 |                                            |  |
| 1                             | 183000.1       |  | 1.5kA @ 500V <sub>AC</sub>    | 620                  |                                                 |                                            |  |
| 1.25                          | 183000.1.25    |  | 1.5kA @ 500V <sub>AC</sub>    | 520                  |                                                 |                                            |  |
| 1.6                           | 183000.1.6     |  | 1.5kA @ 500V <sub>AC</sub>    | 450                  |                                                 |                                            |  |
| 2                             | 183000.2       |  | 1.5kA @ 500V <sub>AC</sub>    | 400                  |                                                 |                                            |  |
| 2.5                           | 183000.2.5     |  | 1.5kA @ 500V <sub>AC</sub>    | 370                  |                                                 |                                            |  |
| 3.15                          | 183000.3.15    |  | 1.5kA @ 500V <sub>AC</sub>    | 340                  |                                                 |                                            |  |
| 4                             | 183000.4       |  | 1.5kA @ 500V <sub>AC</sub>    | 320                  |                                                 |                                            |  |
| 5                             | 183000.5       |  | 1.5kA @ 500V <sub>AC</sub>    | 310                  |                                                 |                                            |  |
| 6.3                           | 183000.6.3     |  | 1.5kA @ 500V <sub>AC</sub>    | 300                  |                                                 |                                            |  |

Weight (kg per 100)

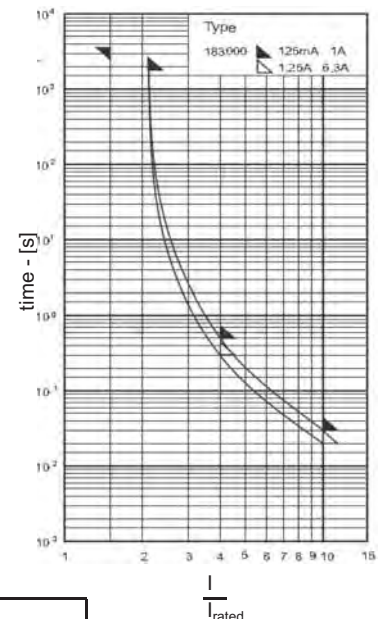
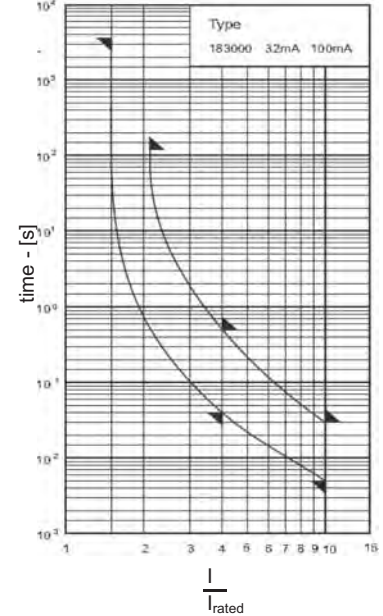
Units per Package

Dimensions  
[mm]

Ø 8.3 ± 0.3

40 ± 1

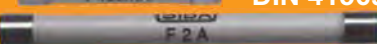
Time-Current Characteristics



| Rated Current | Fusing Time Limits |     |                   |     |                    |     |                 |       |                  |      |
|---------------|--------------------|-----|-------------------|-----|--------------------|-----|-----------------|-------|------------------|------|
|               | 1.5I <sub>n</sub>  |     | 2.1I <sub>n</sub> |     | 2.75I <sub>n</sub> |     | 4I <sub>n</sub> |       | 10I <sub>n</sub> |      |
|               | Min                | Max | Min               | Max | Min                | Max | Min             | Max   | Min              | Max  |
| 32mA - 100mA  | 1h                 | —   | —                 | 2m  | —                  | —   | 40ms            | 500ms | 5ms              | 30ms |
| 125mA - 1A    | 1h                 | —   | —                 | 30m | —                  | —   | —               | 400ms | —                | 30ms |
| 1.25A - 6.3A  | 1h                 | —   | —                 | 30m | —                  | —   | —               | 300ms | —                | 20ms |

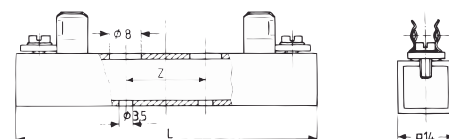
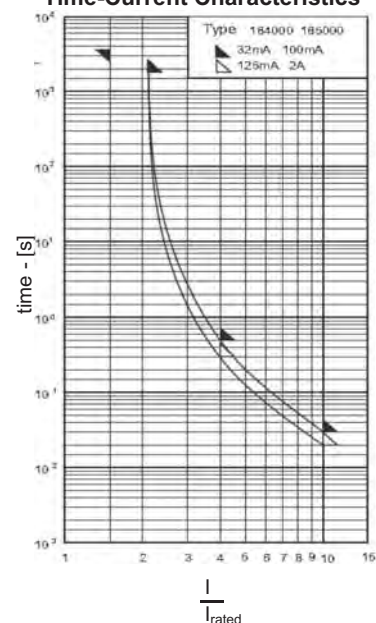
SIBA LLC

29 Fairfield Place  
West Caldwell, New Jersey 07006e-mail: info@sibafuse.com  
www.siba-fuses.us

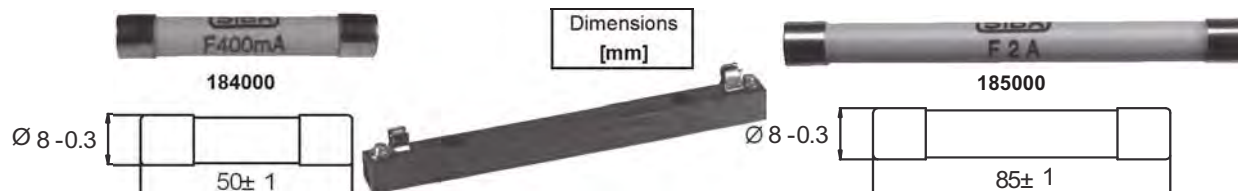
| G                                                                      | RoHS |  | Rated Voltage<br>[Un] | Rated Breaking Test<br>Voltage | Capacity | Class<br>M/F                                                                        | Standard(s) |
|------------------------------------------------------------------------|------|--|-----------------------|--------------------------------|----------|-------------------------------------------------------------------------------------|-------------|
|                                                                        |      |  | 1.2kV <sub>AC</sub>   | 1.2kV <sub>AC</sub>            | 35A      |  | DIN 41570   |
|                                                                        |      |  | 3kV <sub>AC</sub>     | 3kV <sub>AC</sub>              | 35A      |  | DIN 41569   |
| 8mmx50mm -<br>8mmx85mm - Ceramic Tube, Contacts - Brass, Nickel Plated |      |  |                       |                                |          |                                                                                     |             |

| Rated<br>Current<br>$I_n$<br>[A] |                     |   |                     |      | Rated<br>Breaking<br>Current<br>[A]                                                                                                            | Voltage<br>Drop | Voltage<br>Drop  |
|----------------------------------|---------------------|---|---------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------|
|                                  | Article Number      |   | Article Number      |      |                                                                                                                                                | Maximum         | Maximum          |
|                                  |                     | M |                     | [mV] |                                                                                                                                                | [mV]            |                  |
| 0.032                            | 184000.0.032        |   | 185000.0.032        |      | <b>184000</b><br><b>35A</b><br><b>@</b><br><b>1.2kV<sub>AC</sub></b><br><br><b>185000</b><br><b>35A</b><br><b>@</b><br><b>3kV<sub>AC</sub></b> | 2 300           | 4 500            |
| 0.050                            | 184000.0.050        |   | 185000.0.050        |      |                                                                                                                                                | 1 900           | 3 000            |
| 0.063                            | 184000.0.063        |   | 185000.0.063        |      |                                                                                                                                                | 1 700           | 2 400            |
| 0.080                            | 184000.0.080        |   | 185000.0.080        |      |                                                                                                                                                | 1 500           | 1 900            |
| 0.100                            | 184000.0.100        |   | 185000.0.100        |      |                                                                                                                                                | 1 300           | 1 500            |
|                                  | F                   |   |                     |      |                                                                                                                                                |                 |                  |
| 0.125                            | 184000.0.125        |   | 185000.0.125        |      |                                                                                                                                                | 9 500           | 17 500           |
| 0.160                            | 184000.0.160        |   | 185000.0.160        |      |                                                                                                                                                | 8 000           | 14 000           |
| 0.200                            | 184000.0.200        |   | 185000.0.200        |      |                                                                                                                                                | 7 000           | 12 000           |
| 0.250                            | 184000.0.250        |   | 185000.0.250        |      |                                                                                                                                                | 6 000           | 10 500           |
| 0.315                            | 184000.0.315        |   | 185000.0.315        |      |                                                                                                                                                | 5 000           | 9 000            |
| 0.400                            | 184000.0.400        |   | 185000.0.400        |      |                                                                                                                                                | 2 000           | 3 500            |
| 0.500                            | 184000.0.500        |   | 185000.0.500        |      |                                                                                                                                                | 950             | 1 600            |
| 0.630                            | 184000.0.630        |   | 185000.0.630        |      |                                                                                                                                                | 860             | 1 500            |
| 0.800                            | 184000.0.800        |   | 185000.0.800        |      |                                                                                                                                                | 760             | 1 300            |
| 1                                | 184000.1            |   | 185000.1            |      |                                                                                                                                                | 640             | 1 200            |
| 1.25                             | 184000.1.25         |   | 185000.1.25         |      |                                                                                                                                                | 540             | 1 000            |
| 1.6                              | 184000.1.6          |   | 185000.1.6          |      |                                                                                                                                                | 500             | 900              |
| 2                                | 184000.2            |   | 185000.2            |      |                                                                                                                                                | 460             | 800              |
| 2.5                              | 184000.2.5          |   | 185000.2.5          |      |                                                                                                                                                | On Request      |                  |
| 3.15                             | 184000.3.15         |   | 185000.3.15         |      |                                                                                                                                                |                 |                  |
| 4                                | 184000.4            |   | 185000.4            |      |                                                                                                                                                |                 |                  |
| 5                                | 184000.5            |   |                     |      |                                                                                                                                                |                 |                  |
| 6.3                              | 184000.6.3          |   |                     |      |                                                                                                                                                |                 |                  |
|                                  | Weight (kg per 100) |   | Weight (kg per 100) |      |                                                                                                                                                |                 |                  |
|                                  |                     |   |                     |      |                                                                                                                                                |                 |                  |
|                                  | Units per Package   |   | Units per Package   |      | Fuse Base<br>Article No.                                                                                                                       | Fuse            | Rated<br>Voltage |
|                                  |                     |   |                     |      |                                                                                                                                                |                 |                  |

Time-Current Characteristics



| Fuse Base<br>Article No. | Fuse   | Rated Voltage | Dimensions<br>[mm] |    | Rated Current | Rated Power |
|--------------------------|--------|---------------|--------------------|----|---------------|-------------|
|                          |        |               | L                  | Z  | A             | W           |
| 71 034 01                | 184000 | 1.2kV         | 75                 | 20 | 6.3           | 4           |
| 71 037 01                | 185000 | 3kV           | 110                | 20 | 4             | 4           |



|        | Rated Current | Fusing Time Limits |     |                   |     |                    |     |                 |       |                  |      |
|--------|---------------|--------------------|-----|-------------------|-----|--------------------|-----|-----------------|-------|------------------|------|
|        |               | 1.5I <sub>n</sub>  |     | 2.1I <sub>n</sub> |     | 2.75I <sub>n</sub> |     | 4I <sub>n</sub> |       | 10I <sub>n</sub> |      |
|        |               | Min                | Max | Min               | Max | Min                | Max | Min             | Max   | Min              | Max  |
|        | 32mA - 100mA  | 1h                 | —   | —                 | 30m | —                  | —   | —               | 500ms | —                | 30ms |
| 184000 | 125mA - 6.3A  | 1h                 | —   | —                 | 30m | —                  | —   | —               | 300ms | —                | 20ms |
| 185000 | 125mA - 4A    | 1h                 | —   | —                 | 30m | —                  | —   | —               | 300ms | —                | 20ms |

SIBA LLC

 29 Fairfield Place  
 West Caldwell, New Jersey 07006

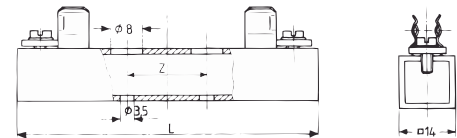
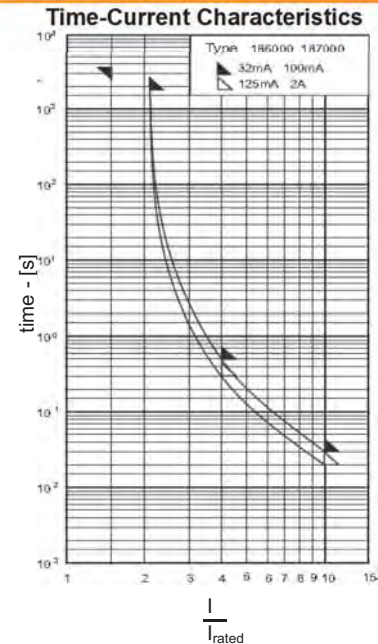
 Phone 1-973-575-7422  
 Fax 1-973-575-5858

 e-mail: info@sibafuse.com  
 www.siba-fuses.us

| G                                                                     | Rated Voltage<br>[Un]<br>6kV <sub>AC</sub><br>10kV <sub>AC</sub> | Rated Breaking Test<br>Voltage<br>6kV <sub>AC</sub><br>10kV <sub>AC</sub> | Capacity<br>35A<br>35A | Class<br>M/F | Standard(s)<br>DIN 41683<br>DIN 41684 |
|-----------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------|--------------|---------------------------------------|
| <div>RoHS</div>                                                       |                                                                  |                                                                           |                        |              |                                       |
| 8mmx120mm - 8mmx150mm - Ceramic Tube, Contacts - Brass, Nickel Plated |                                                                  |                                                                           |                        |              |                                       |

| Rated Current<br>$I_n$<br>[A] | Article Number | Article Number | Rated Breaking Current<br>[A]            | Voltage Drop<br>Maximum<br>[mV] | Voltage Drop<br>Maximum<br>[mV] |
|-------------------------------|----------------|----------------|------------------------------------------|---------------------------------|---------------------------------|
|                               | M              |                |                                          | 186000                          | 187000                          |
| 0.032                         | 186000.0.032   | 187000.0.032   | 186000<br>35A<br>@<br>6kV <sub>AC</sub>  | 6 000                           | 14 000                          |
| 0.050                         | 186000.0.050   | 187000.0.050   |                                          | 4 400                           | 8 500                           |
| 0.063                         | 186000.0.063   | 187000.0.063   |                                          | 3 800                           | 6 500                           |
| 0.080                         | 186000.0.080   | 187000.0.080   |                                          | 3 200                           | 5 000                           |
| 0.100                         | 186000.0.100   | 187000.0.100   |                                          | 2 900                           | 4 000                           |
|                               | F              |                |                                          |                                 |                                 |
| 0.125                         | 186000.0.125   | 187000.0.125   | 186000<br>35A<br>@<br>6kV <sub>AC</sub>  | 22 000                          | 27 000                          |
| 0.160                         | 186000.0.160   | 187000.0.160   |                                          | 19 000                          | 24 000                          |
| 0.200                         | 186000.0.200   | 187000.0.200   |                                          | 16 000                          | 21 000                          |
| 0.250                         | 186000.0.250   | 187000.0.250   |                                          | 14 000                          | 18 500                          |
| 0.315                         | 186000.0.315   | 187000.0.315   |                                          | 12 000                          | 17 000                          |
| 0.400                         | 186000.0.400   | 187000.0.400   | 187000<br>35A<br>@<br>10kV <sub>AC</sub> | 5 000                           | 6 000                           |
| 0.500                         | 186000.0.500   | 187000.0.500   |                                          | 2 300                           | 2 900                           |
| 0.630                         | 186000.0.630   | 187000.0.630   |                                          | 2 000                           | 2 700                           |
| 0.800                         | 186000.0.800   | 187000.0.800   |                                          | 1 900                           | 2 400                           |
| 1                             | 186000.1       | 187000.1       |                                          | 1 800                           | 2 100                           |
| 1.25                          | 186000.1.25    | 187000.1.25    | On Request                               | 1 400                           | 1 800                           |
| 1.6                           | 186000.1.6     | 187000.1.6     |                                          | 1 300                           | 1 600                           |
| 2                             | 186000.2       | 187000.2       |                                          | 1 100                           | 1 400                           |
| 2.5                           | 186000.2.5     |                |                                          |                                 |                                 |
| 3.15                          | 186000.3.15    |                |                                          |                                 |                                 |
| 4                             | 186000.4       |                |                                          |                                 |                                 |

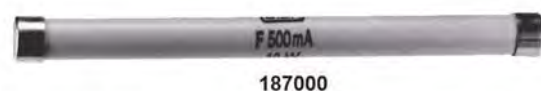
|                     |                     |
|---------------------|---------------------|
| Weight (kg per 100) | Weight (kg per 100) |
| Units per Package   | Units per Package   |



| Fuse Base Article No. | Fuse   | Rated Voltage | Dimensions [mm] |     | Rated Current | Rated Power |
|-----------------------|--------|---------------|-----------------|-----|---------------|-------------|
|                       |        |               | L               | Z   | A             | W           |
| 71 040 01             | 186000 | 6kV           | 145             | 80  | 4             | 4           |
| 71 043 01             | 187000 | 10kV          | 175             | 100 | 2             | 4           |



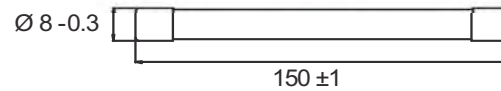
186000

Dimensions  
[mm]

187000



120 ± 1

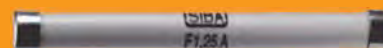


150 ± 1

|        | Rated Current | Fusing Time Limits |     |                   |     |                    |     |                 |       |                  |      |
|--------|---------------|--------------------|-----|-------------------|-----|--------------------|-----|-----------------|-------|------------------|------|
|        |               | 1.5I <sub>n</sub>  |     | 2.1I <sub>n</sub> |     | 2.75I <sub>n</sub> |     | 4I <sub>n</sub> |       | 10I <sub>n</sub> |      |
|        |               | Min                | Max | Min               | Max | Min                | Max | Min             | Max   | Min              | Max  |
|        | 32mA - 100mA  | 1h                 | —   | —                 | 30m | —                  | —   | —               | 500ms | —                | 30ms |
| 186000 | 125mA - 6.3A  | 1h                 | —   | —                 | 30m | —                  | —   | —               | 300ms | —                | 20ms |
| 187000 | 125mA - 4A    | 1h                 | —   | —                 | 30m | —                  | —   | —               | 300ms | —                | 20ms |

G


**Miniature G High Voltage Fuses**

 Standard(s)  
 Company


Ceramic Tube w/Filler, Contacts - Copper Alloy, Silver Plated

| Article Number | Voltage Rating                         | Dimensions | Current Ratings | Class | Breaking Capacity                       |
|----------------|----------------------------------------|------------|-----------------|-------|-----------------------------------------|
| 7011509        | 3kV <sub>AC</sub>                      | 10mmx85mm  | 0.125A - 4A     | F     | 150A                                    |
| 7011527        | 1.5kV <sub>AC</sub> /1kV <sub>DC</sub> | 10mmx85mm  | 0.63A - 12.5A   | T     | /10kA <sub>DC</sub>                     |
| 7011552        | 1.5kV <sub>AC</sub> /1kV <sub>DC</sub> | 10mmx85mm  | 1A - 20A        | F     | 1.5kA <sub>AC</sub> /300A <sub>DC</sub> |
| 7012927        | 1kV <sub>AC</sub>                      | 11mmx79mm  | 2A - 16A        | T     | 15kA                                    |
| 7012952        | 1kV <sub>AC</sub>                      | 11mmx79mm  | 1A - 12A        | F     | 15kA                                    |
| 7017182        | 1kV <sub>AC</sub>                      | 10mmx85mm  | 2A - 16A        | aM    | 25kA                                    |
| 7002924        | 3kV <sub>AC</sub>                      | 12mmx100mm | 0.5A - 10A      | F     | 300A                                    |
| 7002927        | 3kV <sub>AC</sub>                      | 12mmx100mm | 2.5A - 6.3A     | T     | 300A                                    |
| 7003024        | 6kV <sub>AC</sub>                      | 12mmx150mm | 0.5A - 4A       | F     | 300A                                    |
| 7003124        | 10kV <sub>AC</sub>                     | 12mmx200mm | 0.5A - 2A       | F     | 300A                                    |



71 037 02

| Fuse Holder    |                |                 |           |             |
|----------------|----------------|-----------------|-----------|-------------|
| Article Number | Voltage Rating | Current Ratings | Fuse Size | Rated Power |
| 7103702        | 3kV            | 6.3A            | 10mmx85mm | 4W          |



71 029 01

71 030 01

71 031 01

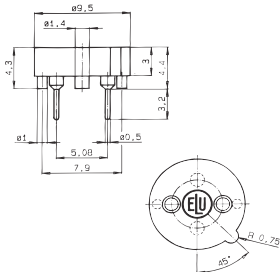
| Fuse Base      |                |                 |            |             |
|----------------|----------------|-----------------|------------|-------------|
| Article Number | Voltage Rating | Current Ratings | Fuse Size  | Rated Power |
| 7102901        | 3kV            | 6.3A            | 12mmx100mm | 4W          |
| 7103001        | 6kV            | 4A              | 12mmx150mm | 4W          |
| 7103101        | 10kV           | 2A              | 12mmx200mm | 4W          |

The logo of the German Society for Quality Management (DGQ) is a blue square containing a white capital letter 'G'.



## Fuse Holders for Sub-miniature Fuses 8.4mm x 7.6mm with short leads

166602

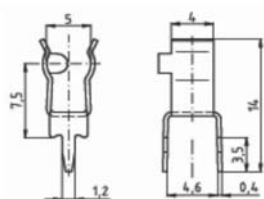


rated current  
mounting  
pin distance  
hole

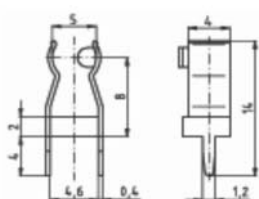
6.3 A  
printed circuit board  
5.08 mm  
Ø 1 mm



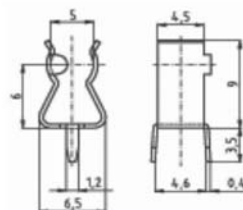
### Fuse clips for miniature Fuse Links with 5mm & 6.3mm cap Ø



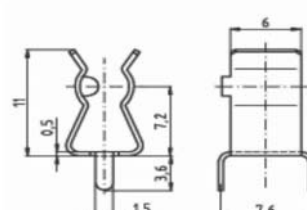
199073



199207



199487



199429

For Ø 5 mm

For or Ø 6.3 mm

rated current

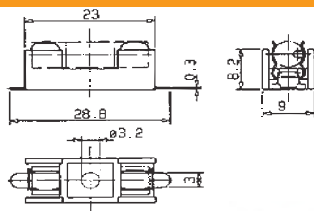
6.3A, Ø 5 mm  
10A, Ø 6.3 mm  
printed circuit board  
brass, tinned  
solderable



mounting  
material  
connections



### Fuse Holders (Fuse Blocks) for miniature Fuse Links 5mm x 20mm

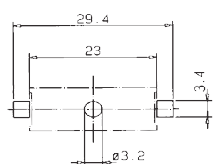


rated voltage  
rated current  
rated power  
mounting  
connections  
approvals VDE

250 V<sub>AC</sub>, 300V<sub>DC</sub>  
6,3 A  
1,6 W  
printed circuit board, screw or rivet  
solder



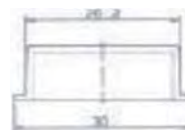
Cover



199011



### PCB mounting pattern

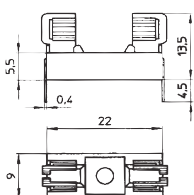


199012

G

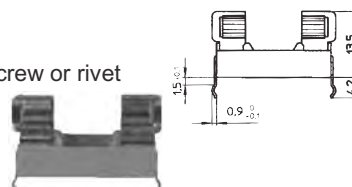


RoHS

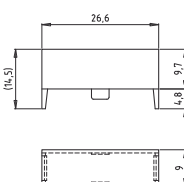
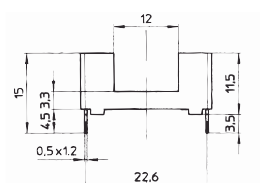

**Fuse Holders (Fuse Blocks) for miniature Fuse Links 5mm x 20mm**
**199015**

approvals UL(rec), VDE

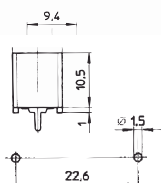
rated voltage 250 V<sub>AC</sub>  
 rated current 6,3 A  
 rated power 1,6 W  
 mounting printed circuit board, screw or rivet  
 pin distance 22.5 mm  
 hole Ø 1.5 mm  
 connections solder  
 cover 199016 thermoplastic. transparent

**199015A**

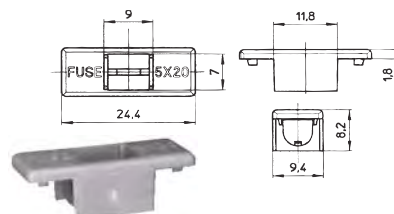
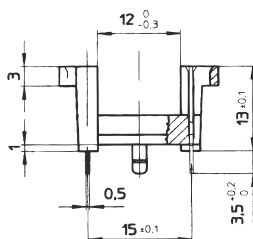
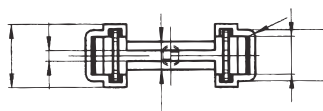
approvals UL(rec), VDE

**199016**

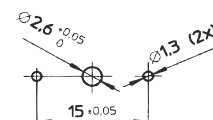
rated voltage 250 V<sub>AC</sub>  
 rated current 6,3 A  
 rated power 1,6 W  
 mounting printed circuit board  
 pin distance 22.5 mm  
 hole Ø 1.5 mm  
 connections solder  
 cover 199016 thermoplastic. Green

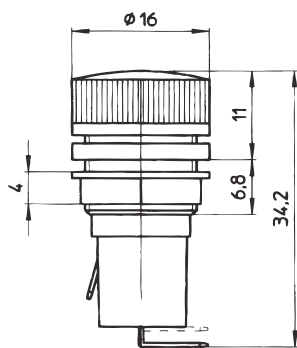
**199018**

approvals UL(rec), VDE

**199019****199060**

rated voltage 250 V<sub>AC</sub>  
 rated current 6,3 A  
 rated power 1,6 W  
 mounting printed circuit board  
 pin distance 15 mm  
 hole Ø 1.3 mm / 2.6mm  
 connections solder



**199030**

approvals UL(rec), VDE

mounting panel

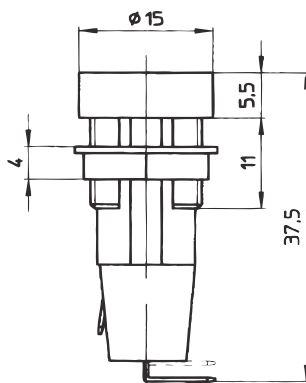
hole 13mm

locating lug

locknut SW14

fuse carrier screw cap

connections 2.8mm plug connector or solderable

**199035**

approvals UL(rec), VDE

mounting panel

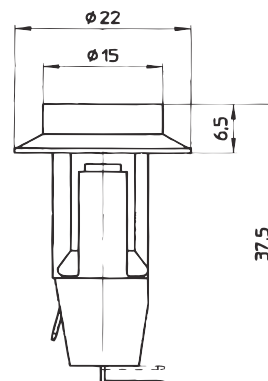
hole 12.7mm

locating lug

locknut SW14

fuse carrier screw cap

connections 2.8mm plug connector or solderable

**199040**

approvals UL(rec), VDE

mounting panel

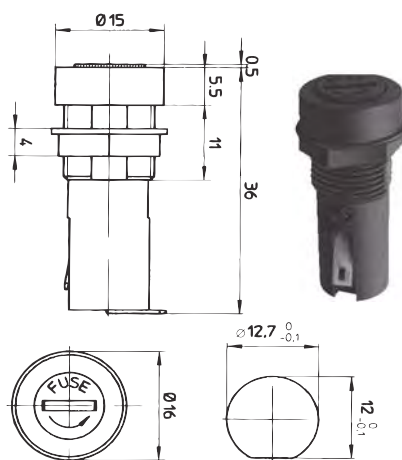
hole 12.7mm

locating lug

locknut SW14

fuse carrier screw cap

connections 2.8mm plug connector or solderable

**199055**

mounting panel

hole 12.7mm

locating lug

locknut SW14

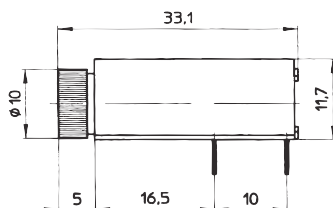
fuse carrier bayonet cap

connections solder

approvals UL(rec), VDE



|                     |       |
|---------------------|-------|
| rated voltage       | 250 V |
| rated current       | 6.3 A |
| rated power         | 2.5 W |
| dielectric strength | 3 kV  |
| protection standard | IP 40 |
| shock safe category | PC2   |

**199050**

mounting PCB

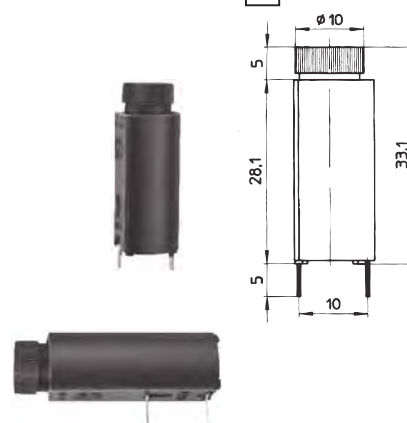
pin distance 10mm

via hole Ø 1.3 +0.1 mm

fuse carrier bayonet cap

connections solder

approvals UL(rec), VDE

**199045**

mounting PCB

pin distance 10mm

via hole Ø 1.3 +0.1 mm

fuse carrier bayonet cap

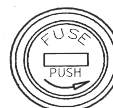
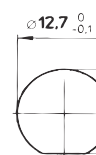
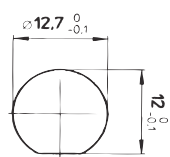
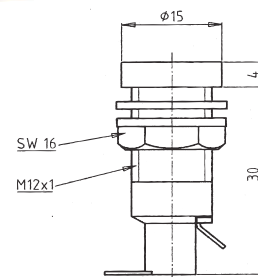
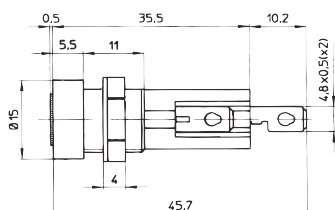
connections solder

approvals UL(rec), VDE





## Fuse Holders (Fuse Blocks) for miniature Fuse Links 5mm x 20mm



199070

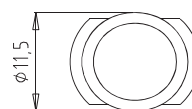
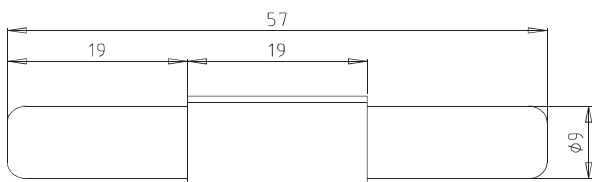
199090

|                        |                      |
|------------------------|----------------------|
| rated voltage          | 250 V                |
| rated current          | 6.3 VDE / 10A UL/CSA |
| rated power            | 2.5 W                |
| dielectric strength    | 3 kV                 |
| protection standard    | IP 40                |
| shock safe category    | PC2                  |
| mounting               | panel                |
| hole                   | 12.7mm               |
| locating lug           |                      |
| locknut                | SW14                 |
| fuse carrier           | bayonet cap          |
| connections            | 4.8mm plug connector |
| approvals UL(rec), VDE |                      |

|                                              |                      |
|----------------------------------------------|----------------------|
| rated voltage                                | 250 V                |
| rated current                                | 6.3 VDE / 10A UL/CSA |
| rated power                                  |                      |
| dielectric strength                          | 3 kV                 |
| protection standard                          | IP 40                |
| shock safe category                          | PC2                  |
| mounting                                     | panel                |
| hole                                         | 12.7mm               |
| locating lug                                 |                      |
| locknut                                      | SW16                 |
| fuse carrier                                 | bayonet cap          |
| connections                                  | solder               |
| approvals UL(rec) CSA (10A), VDE SEMK0(6.3A) |                      |



### In Line Fuse Holders for miniature Fuse Links 5mm x 20mm



199080



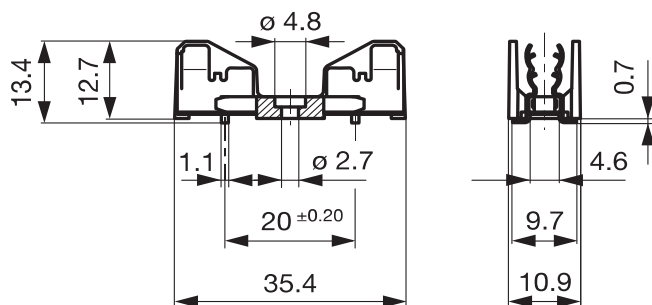
|               |                     |
|---------------|---------------------|
| rated voltage | 250 V               |
| rated current | 6                   |
| rated power   | 1.6 W               |
| mounting      | in line fuse holder |
| locking       | bayonet type        |
| connections   | solderable          |

**SIBA LLC**

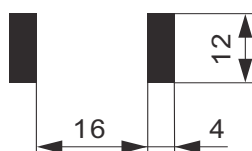
29 Fairfield Place  
West Caldwell, New Jersey 07006

Phone 1-973-575-7422  
Fax 1-973-575-5858

e-mail: [info@sibafuse.com](mailto:info@sibafuse.com)  
[www.siba-fuses.us](http://www.siba-fuses.us)

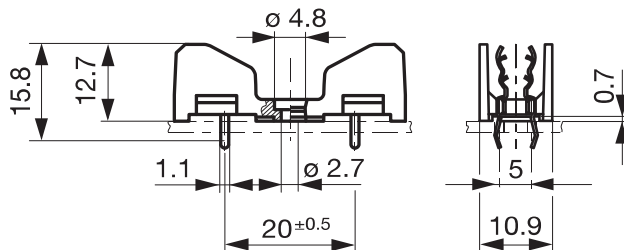


Solder Pad

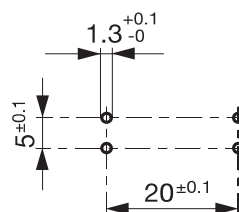


199511

|                     |                                             |
|---------------------|---------------------------------------------|
| rated voltage       | 500V (VDE) / 600V <sub>AC/DC</sub> (UL/CSA) |
| rated current       | 10A (VDE) / 16A (UL/CSA)                    |
| rated power         | 4 W                                         |
| dielectric strength | 3 kV                                        |
| mounting            | surface mount                               |
| fixing              | rivet or screw                              |
| connections         | solder                                      |
| approvals           | UL(rec), VDE                                |



Drill Pattern



199537

|                     |                                             |
|---------------------|---------------------------------------------|
| rated voltage       | 500V (VDE) / 600V <sub>AC/DC</sub> (UL/CSA) |
| rated current       | 10A (VDE) / 16A (UL/CSA)                    |
| rated power         | 4 W                                         |
| dielectric strength | 3 kV                                        |
| mounting            | PCB                                         |
| fixing              | rivet or screw                              |
| connections         | solder                                      |
| approvals           | UL(rec), VDE                                |

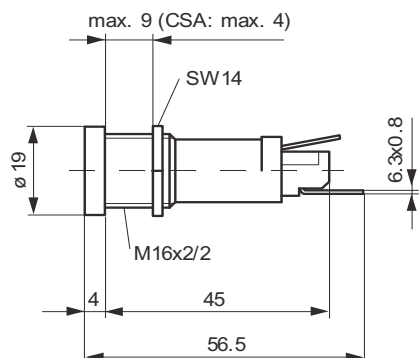
G



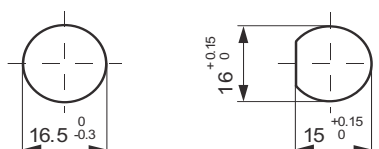
RoHS



Fuse Holders (Fuse Blocks) for miniature Fuse Links 6.3mm x 32mm



Hole Pattern



199531



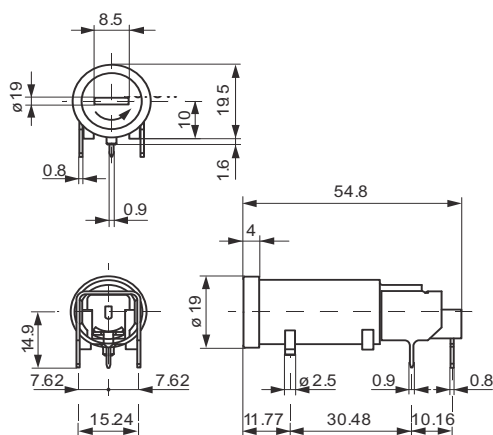
199530

rated voltage  
 rated current  
 rated power  
 dielectric strength  
 protection standard  
 shock safe category  
 mounting  
 hole  
 locating lug  
 locknut  
 fuse carrier  
 connections

500V (VDE) / 600V<sub>AC/DC</sub> (UL/CSA)  
 10A (VDE) / 20A (UL/CSA)  
 4 W @ 10A  
 3 kV  
 IP 40  
 PC2  
 panel  
 16.5mm

Approvals UL(rec), VDE

bayonet cap  
 6.3x0.8mm plug connector



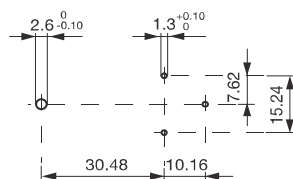
rated voltage  
 rated current  
 rated power  
 dielectric strength  
 protection standard  
 shock safe category  
 mounting  
 fuse carrier  
 connections

500V (VDE) / 600V<sub>AC/DC</sub> (UL/CSA)  
 16A (VDE) / 30A (UL/CSA)  
 4 W @ 16A  
 3 kV  
 IP 40  
 PC2  
 PCB  
 screw cap  
 solderable THT



199550

approvals UL(rec), VDE



199552

SIBA LLC

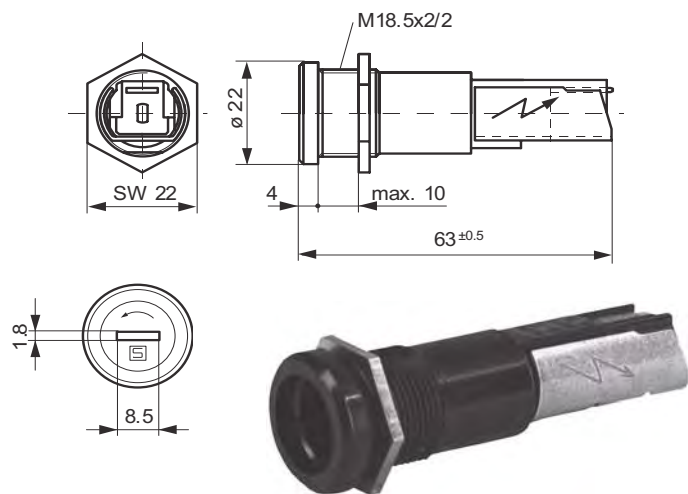
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 Fax 1-973-575-5858

 e-mail: info@sibafuse.com  
 www.siba-fuses.us



## Fuse Holders (Fuse Blocks) for miniature Fuse Links 6.3mm x 32mm



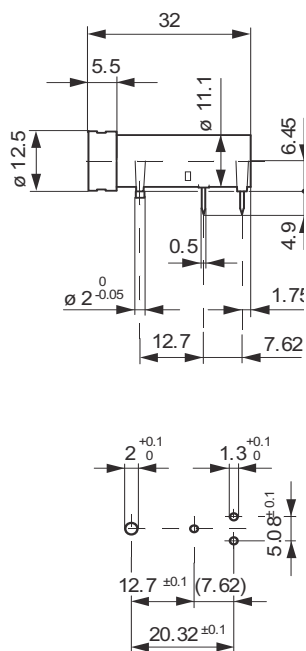
199555

approvals UL(rec), VDE

|                     |                                             |
|---------------------|---------------------------------------------|
| rated voltage       | 500V (VDE) / 600V <sub>AC/DC</sub> (UL/CSA) |
| rated current       | 16A (VDE) / 30A (UL/CSA)                    |
| rated power         | 4 W @ 16A                                   |
| dielectric strength | 3 kV                                        |
| protection standard | IP 40                                       |
| shock safe category | PC2                                         |
| mounting            | panel                                       |
| fixing              | nut                                         |
| fuse carrier        | screw cap                                   |
| connections         | 6.3x0.8mm plug connector                    |



199552



7100127

approvals UL(rec), VDE

rated voltage  
rated current  
rated power  
dielectric strength  
protection standard  
shock safe category  
mounting  
pin distance  
via hole  
fuse carrier  
connections

 $250V_{AC}$ 

10A (VDE) / 16A (UL/CSA)

2.5 W @ 10A

3 kV

IP 40

PC2

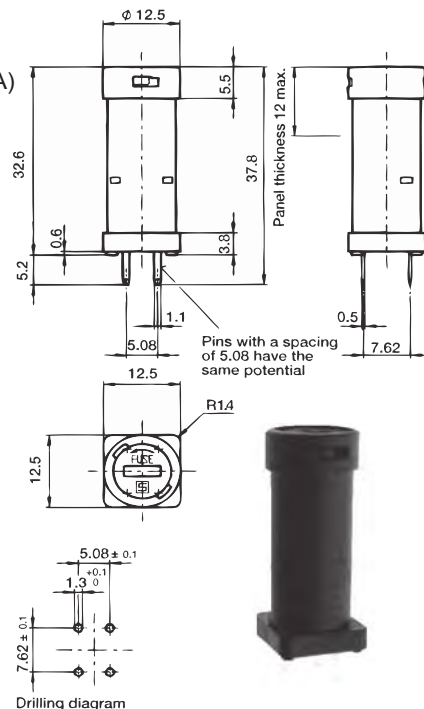
PCB

7.62x5.08mm

Ø 1.3 +0.1 mm

bayonet cap

solder



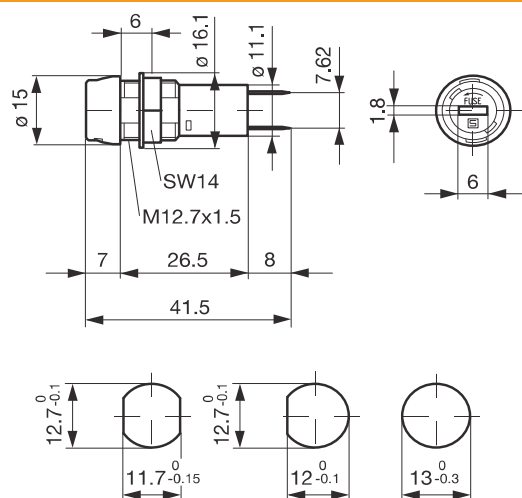
7100128

approvals UL(rec), VDE

G



RoHS

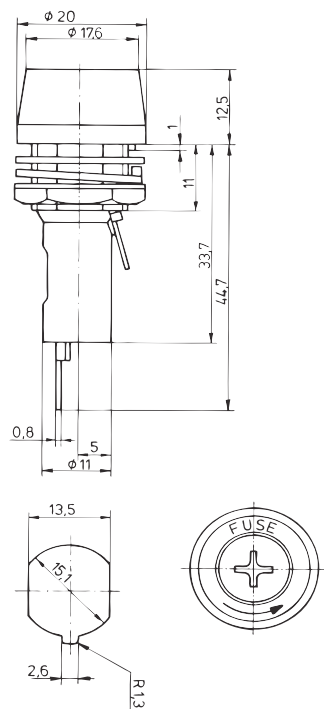

**Fuse Holders (Fuse Blocks) for miniature Fuse Links 5mm x 20mm**


|                       |                     |
|-----------------------|---------------------|
| rated voltage         | 250 V <sub>AC</sub> |
| rated current         | 10 VDE / 16A UL/CSA |
| rated power           | 2.5 W @ 10A         |
| dielectric strength   | 3 kV                |
| protection standard   | IP 40               |
| shock safe category   | PC2                 |
| mounting              | panel               |
| hole                  | 13mm                |
| distortion protection |                     |
| locknut               | M12.7x1.5           |
| fuse carrier          | bayonet cap         |
| connections           | solder              |

7100129

approvals UL(rec), VDE

RoHS

**Fuse Holders (Fuse Blocks) for miniature Fuse Links 6.3mm x 32mm**


199052



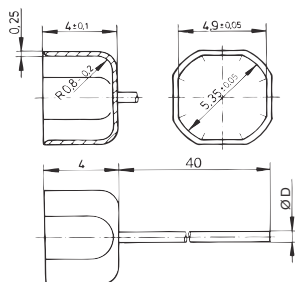
|                     |             |
|---------------------|-------------|
| rated voltage       | 250 V       |
| rated current       | 20A         |
| rated power         |             |
| dielectric strength | 3 kV        |
| protection standard | IP 40       |
| shock safe category |             |
| mounting            | panel       |
| hole                | 15.1mm      |
| locating lug        |             |
| locknut             | SW18        |
| fuse carrier        | bayonet cap |
| connections         | solder      |

G

RoHS

Press on leads for miniature Fuse Links 5mm x 20mm and 6.3mm x 32mm

Ø 5mm



Ø 5mm

204000 Max 6.3A D=0.65mm

204001 Max 10A D=0.8mm

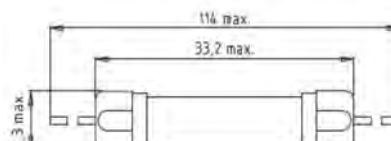
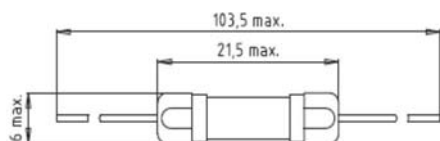
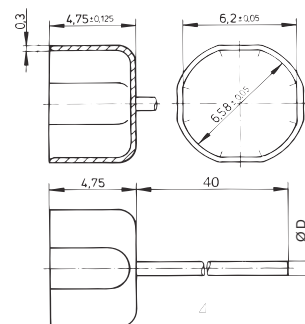
204002 Max 16A D=1mm

Ø 6.3mm

204100 Max 12.5A D=0.8mm

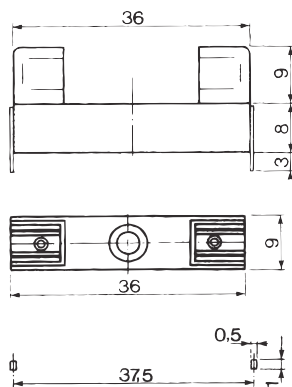
204101 Max 20A D=1mm

Ø 6.3mm



RoHS

Fuse Holders (Fuse Blocks) for miniature Fuse Links 6.3x32mm



199022

|                     |             |
|---------------------|-------------|
| rated voltage       | 250 V       |
| rated current       | 10A         |
| mounting            | panel       |
| dielectric strength | 3 kV        |
| protection standard | IP 40       |
| shock safe category |             |
| mounting            | panel       |
| hole                | 0.5x1mm     |
| locating lug        |             |
| locknut             | SW18        |
| fuse carrier        | bayonet cap |
| connections         | solder      |

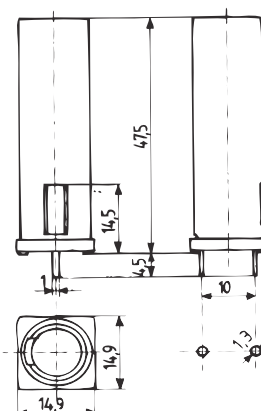
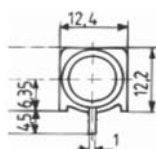
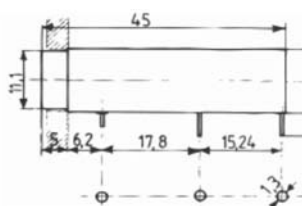


G



RoHS

Fuse Holders (Fuse Blocks) for miniature Fuse Links 5mm x 20mm or 6.3mm x 32mm

**7100114**

approvals UL(rec), VDE, CSA  
 rated voltage 250V<sub>AC</sub>  
 rated current 10A (VDE) / 16A (UL/CSA)  
 rated power 2.5 W @ 10A(5x20mm)  
 rated power 3.2 W @ 10A(6.3x32mm)  
 dielectric strength 3 kV  
 protection standard IP 40  
 shock safe category PC2  
 mounting PCB  
 pin distance 15.24mm  
 via hole Ø 1.3 +0.1 mm  
 fuse carrier bayonet cap  
 connections solder

**7100116**

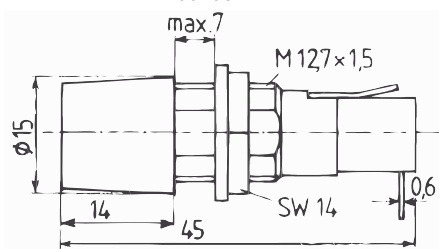
approvals UL(rec), VDE, CSA

rated voltage 250V<sub>AC</sub>  
 rated current 10A (VDE) / 16A (UL/CSA)  
 rated power 2.5 W @ 10A(5x20mm)  
 rated power 3.2 W @ 10A(6.3x32mm)  
 dielectric strength 3 kV  
 protection standard IP 40  
 shock safe category PC2  
 mounting PCB  
 pin distance 10mm  
 via hole Ø 1.3 +0.1 mm  
 fuse carrier bayonet cap  
 connections solder

5x20mm



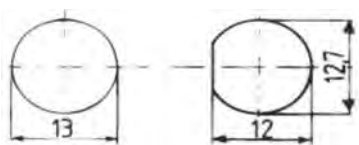
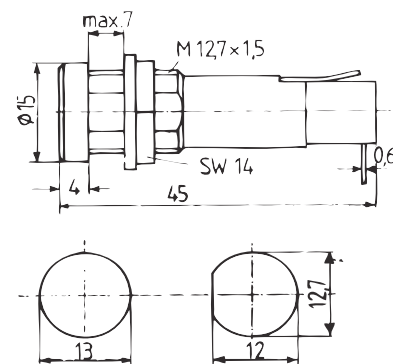
6.3x32

**7200108****7200109**

rated voltage 250V  
 rated current 10A (VDE) / 20A (UL)  
 rated power 4 W @ 10A  
 dielectric strength 3 kV  
 protection standard IP 40  
 shock safe category PC2  
 mounting panel  
 hole 13mm  
 locating lug  
 locknut  
 fuse carrier bayonet cap  
 connections solder

250V  
 10A (VDE) / 20A (UL)  
 4 W @ 10A  
 3 kV  
 IP 40  
 PC2  
 panel  
 13mm

M12.7x1.5  
 bayonet cap  
 solder

**7100123**

approvals UL(rec) 20A, VDE 10A

**7100124**

approvals UL(rec), VDE, CSA

**SIBA LLC**

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 West Caldwell, New Jersey 07006

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 Fax 1-973-575-5858

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## SIBA Cross Reference

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| 158000     | 7016975 | 587  | 184000   | 70 034 09 | 631  | 7000134    | 179020    | 601  | 7005437 | 196000   | 597  |
| 160000     | 7017373 | 588  | 185000   | 70 035 09 | 631  | 7000135    | 179120    | 606  | 7005960 | 189000   | 623  |
| 164000     | 7016072 | 592  | 185000   | 70 037 09 | 631  | 7000140    | 70 001 40 | 598  | 7005961 | 189100   | 626  |
| 164050     | 7015972 | 592  | 186000   | 70 038 10 | 632  | 7000176    | 179500    | 611  | 7005976 | 189500   | 628  |
| 164500     | 7016371 | 593  | 186000   | 70 040 10 | 632  | 7000179    | 179150    | 607  | 7006563 | 189020   | 624  |
| 164550     | 7016271 | 593  | 187000   | 70 041 10 | 632  | 7000181    | 190000    | 612  | 7006565 | 189140   | 627  |
| 165000     | 7016002 | 594  | 187000   | 70 043 10 | 632  | 7000202    | 172525    | 613  | 7008913 | 7008913  | 617  |
| 165050     | 7015902 | 594  | 189000   | 70 059 60 | 623  | 7000234    | 171525    | 563  | 7012540 | 7012540  | 620  |
| 166000     | 7016073 | 595  | 189020   | 70 065 63 | 624  | 7000302    | 172530    | 619  | 7014311 | 183000   | 630  |
| 166050     | 7015973 | 595  | 189100   | 70 059 61 | 626  | 7000334    | 171530    | 619  | 7015902 | 165050   | 594  |
| 166500     | 7016376 | 596  | 189140   | 70 065 65 | 629  | 7000401    | 171100    | 603  | 7015972 | 164050   | 592  |
| 166550     | 7016276 | 596  | 189500   | 70 059 76 | 628  | 7000402    | 172100    | 604  | 7015973 | 166050   | 595  |
| 166602     | 7115801 | 634  | 190000   | 70 001 81 | 612  | 7000403    | 173100    | 610  | 7016002 | 165000   | 594  |
| 171100     | 7000401 | 603  | 196000   | 70 054 37 | 597  | 7000502    | 172525    | 613  | 7016072 | 164000   | 592  |
| 171525     | 7000234 | 603  | 199073   | 74 001 02 | 634  | 7000602    | 172530    | 619  | 7016073 | 166000   | 595  |
| 171526     | 7001004 | 615  | 199207   | 74 001 03 | 634  | 7000702    | 172200    | 605  | 7016102 | 165000GT | 594  |
| 171530     | 7000334 | 619  | 204000   | 73 001 01 | 642  | 7000733    | 179021    | 602  | 7016172 | 164000GT | 592  |
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