## General Information


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| Selection diagram | 581 |


## 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

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G

RoHS

## General Product Information

| Article Number | Page | RoHS | Dimensions [mm] | Rated Voltage | Charac-teristics | Rated Breaking Current | Standard or Description |
|---|---|---|---|---|---|---|---|
| 151000 | 582 | ◆ | 1.00 x 0.5 | $32V_{DC}$ | FF | 50A | UL 248-14 |
| 152000 | 583 | ◆ | 1.55 x 0.85 | $32V_{DC}$ | FF | 50A | UL 248-14, IEC 60127- 4 |
| 153000 | 584 | ◆ | 2.00 x 1.25 | $32V_{DC}$ | FF | 50A | UL 248-14, IEC 60127- 4 |
| 154000 | 585 | ◆ | 3.20 x 1.6 | $63V_{DC}$ | FF | 50A | UL 248-14, IEC 60127- 4 |
| 157000 | 586 | ◆ | 2.60 x 6.1 | $125V_{AC/DC}$ | F | $50A_{AC/DC}$ | UL 248-14, CSA C22.s No 248.14 |
| 158000 | 587 | ◆ | | $125V_{AC/DC}$ | T | $50A_{AC/DC}$ | UL 248-14, CSA C22.s No 248.14 |
| 160000 | 588 | ◆ | 4.5 x 8.0 | $250V_{AC}$ | T | 100A | IEC 60127 |
| 161000 | 589 | ◆ | 4.5 x 8.0 | $250V_{AC}$ | F | 100A | IEC 60127-4 |
| 160016 | 590 | ◆ | 4.5 x 16 | $305V_{AC}$ | T | 1.5kA | UL 248-14, IEC 60127-4/2 |
| 163016 | 591 | ◆ | 4.5 x 16 | $250V_{AC}$ | TT | 135A | IEC 60127-4 |
| 164000<br>164050 | 592 | ◆ | 8.4 x 7.6 | $250V_{AC}$ | F | $(35A / 10xI_{Rat})$ | IEC 60127-3/3, EN 60127-3/3, VDE 0820-3/3 |
| 164500<br>164550 | 593 | ◆ | 8.4 x 7.6 | $250V_{AC}$ | F | 50A | UL 248-14, CSA C22.s No 248.14 |
| 165000<br>165050 | 594 | ◆ | 8.4 x 7.6 | $250V_{AC}$ | M | $(35A / 10xI_{Rat})$ | IEC 60127-3 |
| 166000<br>166050 | 595 | ◆ | 8.4 x 7.6 | $250V_{AC}$ | T | $(35A / 10xI_{Rat})$ | IEC 60127-3/4, EN 60127-3/4, VDE 0820-3/4 |
| 166500<br>166550 | 596 | ◆ | 8.4 x 7.6 | $250V_{AC}$ | T | 50A | UL 248-14, CSA C22.s No 248.14 |
| 196000 | 597 | ◆ | 2.3 x 8 | $125V_{AC/DC}$ | F | $300A_{DC}/50A_{AC}$ | UL 248-14 |
| 70 001 40 | 598 | ◆ | 5 x 20 | $250V_{AC}$ | FF | 300kA/1.5kA | Special Type |
| 70 007 40 | 599 | ◆ | 5 x 20 | $400V_{AC}$ | FF | 10kA/300kA | Special Type |
| 70 180 40 | 600 | ◆ | 5 x 20 | $660V_{AC}$ | aR(FF) | $100kA_{AC/DC}$ | Special Type |
| 179020 | 601 | ◆ | 5 x 20 | $250V_{AC}$ | F | $(35A / 10xI_{Rat})$ | IEC 60127-2/2, EN 60127-2/2, VDE 0820-2/2 |
| 179021 | 602 | ◆ | 5 x 20 | $250V_{AC}$ | F | 1.5kA/1kA | IEC 60127-2/1, EN 60127-2/1, VDE 0820-2/1 |
| 171100 | 603 | ◆ | 5 x 20 | $250V_{AC}$ | F | 1kA/300A | DIN 41571-1 |
| 172000 | 604 | ◆ | 5 x 20 | $250V_{AC}$ | M | 80A | DIN 41571-2 |
| 172100 | | | | | | 1kA/300A | |
| 172200 | 605 | ◆ | 5 x 20 | $250V_{AC}$ | M | 1.5kA | DIN 41571-2 |
| 179120 | 606 | ◆ | 5 x 20 | $250V_{AC}$ | T | $(35A / 10xI_{Rat})$ | IEC 60127-2/3, EN 60127-2/3, VDE 0820-2/3 |
| 179150 | 607 | ◆ | 5 x 20 | $250V_{AC}$ | T | 150A | IEC 60127-2/6, EN 60127-2/6, VDE 0820-2/6 |
| 179200 | 608 | ◆ | 5 x 20 | $250V_{AC}/300V_{DC}$ | T | $1.5kA_{AC/DC}$ | IEC 60127-2/6, EN 60127-2/6, VDE 0820-2/6 |
| 179200SMD | 609 | ◆ | 5 x 20 | $250V_{AC}$ | T | 1.5kA | IEC 60127-2/5, EN 60127-2/5, VDE 0820-2/5 |
| 173100 | 610 | ◆ | 5 x 20 | $250V_{AC}$ | T | 300A | DIN 41571-3 |
| 179500 | 611 | ◆ | 5 x 20 | $250V_{AC}$ | T/D | 35A/100A | UL 248-14, CSA C22.s No 248.14 |
| 190000 | 612 | ◆ | 5 x 20 | $250V_{AC}$ | TT | $(35A / 10xI_{Rat})$ | Special Type |
| 171525 | 613 | ◆ | 5 x 25 | $250V_{AC}$ | F | 50A/80A | Special Type |
| 172525 | | | | | M | | |
| 7001908 | 614 | ◆ | 10 x 51 | $60V_{AC}$ | | 1.5kA | DIN 41572 |
| 171526 | 615 | ◆ | 5 x 25 | $250V_{AC}$ | F | 1.5kA | DIN 41576-1 |
| 172526 | 616 | ◆ | 5 x 25 | $250V_{AC}$ | M | 80A/1.5kA | DIN 41576-2 |
| 7008913 | 617 | ◆ | 5 x 25 | $450V_{AC}/250V_{DC}$ | F | $70kA_{AC}/10kA_{DC}$ | Lloyds Approved |
| 7001607 | 618 | ◆ | 5 x 25 | $250V_{AC}$ | 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 | 500$V_{AC}$ | F | 50A/80A | Special Type |
| 172530 | | | | | M | | |
| 7012540 | 620 | | 6.3 x 32 | 700$V_{AC}$/500$V_{AC}$ | FF | 80A/1.5kA | Special Type |
| 7017240 | 621 | | 6.3 x 32 | 1000$V_{AC/DC}$ | aR(FF) | 30k$A_{AC/DC}$ | Short circuit protection only |
| 7006584 | 622 | | 6.3 x 32 | 400$V_{AC}$ | gRL | 120kA | IEC 60269-4, VDE 0636 Tail 4 |
| 189000 | 623 | | 6.3 x 32 | 250$V_{AC}$ | F | (35A / 10x$I_{Rat}$) | IEC 60269-2/4 |
| 189020 | 624 | | 6.3 x 32 | 500$V_{AC}$/440$V_{DC}$ | F | 50kA/1.5kA | Special Type |
| 7009463 | 625 | | 6.3 x 32 | 600$V_{AC}$ | F | 50kA | Special Type |
| 189100 | 626 | | 6.3 x 32 | 250$V_{AC}$ | T | (35A / 10x$I_{Rat}$) | Special Type |
| 189140 | 627 | | 6.3 x 32 | 500$V_{AC}$ - 250$V_{AC}$ | T | 1.5kA/10kA | Special Type |
| 189500 | 628 | | 6.3 x 32 | 250$V_{AC}$/125$V_{AC}$ | T/D | 100A/10kA | |
| 7006526 | 629 | | 6.3 x 32 | 400$V_{DC}$ | gPV | 30kA | Following IEC 60269-4 |
| 183000 | 630 | | 8 x 40 | 500$V_{AC}$ | F | 80A/1.5kA | DIN 41686 |
| 184000 | 631 | | 8 x 50 | 1.2k$V_{AC}$ | M | 35A | DIN 41570 |
| 7103401 | | | 8 x 50 | 1.2k$V_{AC}$ | | | Fuse Base |
| 185000 | | | 8 x 85 | 3k$V_{AC}$ | F | 35A | DIN 41569 |
| 7103701 | | | 8 x 85 | 3k$V_{AC}$ | | | Fuse Base |
| 186000 | 632 | | 8 x 120 | 6k$V_{AC}$ | M/F | 35A | DIN 41683 |
| 7104001 | | | 8 x 120 | 6k$V_{AC}$ | | | Fuse Base |
| 187000 | | | 8 x 150 | 10k$V_{AC}$ | | 35A | DIN 41684 |
| 7104301 | | | 8 x 150 | 10k$V_{AC}$ | | | Fuse Base |
| 7011509 | 633 | | 10 x 85 | 3k$V_{AC}$ | F | | Company |
| 7011527 | | | 10 x 85 | 1.5k$V_{AC}$/1k$V_{DC}$ | T | | Company |
| 7011552 | | | 10 x 85 | 1.5k$V_{AC}$/1k$V_{DC}$ | F | | Company |
| 7012927 | | | 11 x 79 | 1k$V_{AC}$ | T | | Company |
| 7012952 | | | 11 x 79 | 1k$V_{AC}$ | F | | Company |
| 7017182 | | | 10 x 85 | 1k$V_{AC}$ | aM | | Company |
| 7002924 | | | 12 x 100 | 3k$V_{AC}$ | F | | Company |
| 7002927 | | | 12 x 100 | 3k$V_{AC}$ | T | | Company |
| 7003024 | | | 12 x 150 | 6k$V_{AC}$ | F | | Company |
| 7003124 | | | 12 x 200 | 10k$V_{AC}$ | F | | Company |
| 7103702 | 633 | | 10 x 85 | 3k$V_{AC}$ | | | Fuse Holder, 6.3A, 4W |
| 7102901 | 633 | | 12 x 100 | 3k$V_{AC}$ | | | Fuse Base, 6.3A, 4W |
| 7103001 | | | 12 x 150 | 6k$V_{AC}$ | | | Fuse Base, 4A 4W |
| 7103101 | | | 12 x 200 | 10k$V_{AC}$ | | | Fuse Base, 2A 4W |
| 166602 | 634 | | 8.4 x 7.6 | 250$V_{AC}$ | | | 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 | | | | | | | |
| 199429 | | | Ø 6.3mm | | | | Fuse Clips PCB for Ø 6.3mm, 10A |
| 199011 | 634 | | 5 x 20 | 250$V_{AC}$/300$V_{DC}$ | | | Fuse base SMD, 6.3A |
| 199012 | | | | | | | Fuse base cover |
| 199015 | 635 | | 5 x 20 | 250$V_{AC}$ | | | Fuse base PCB, 6.3A |
| 199015A | | | | | | | |
| 199016 | | | | | | | Fuse base cover |
| 199018 | 635 | | 5 x 20 | 250$V_{AC}$ | | | Fuse base PCB, 6.3a |
| 199019 | | | | | | | Fuse base cover |
| 199060 | 635 | | 5 x 20 | 250$V_{AC}$ | | | Fuse base PCB, 6.3a |

## G

RoHS

## General Product Information

| | | | | | | |
|---|---|---|---|---|---|---|
| 199030 | 636 | ◆ | 5 x 20 | $250V_{AC}$ | 6.3A | Fuse holder panel mount, screw cap, 2.8mm plug or solder |
| 199035 | | ◆ | 5 x 20 | $250V_{AC}$ | 6.3A | Fuse holder panel mount, screw cap, 2.8mm plug or solder |
| 199040 | | ◆ | 5 x 20 | $250V_{AC}$ | 6.3A | Fuse holder panel mount, screw cap, 2.8mm plug or solder |
| 199045 | | | 5 x 20 | $250V_{AC}$ | 6.3A | Fuse holder PCB vertical, bayonet cap |
| 199050 | | ◆ | 5 x 20 | $250V_{AC}$ | 6.3A | Fuse holder PCB horizontal, bayonet cap |
| 199055 | | ◆ | 5 x 20 | $250V_{AC}$ | 6.3A | Fuse holder panel mount, bayonet cap, solder |
| 199070 | 637 | ◆ | 5 x 20 | $250V_{AC}$ | 6.3A | Fuse holder panel mount, bayonet cap,4.8mm plug or solder |
| 199090 | | ◆ | 5 x 20 | $250V_{AC}$ | 6.3A VDE/10A UL | Fuse holder panel mount, bayonet cap, solder |
| 199080 | | ◆ | 5x20/6.3x32 | $250V_{AC}$ | 6.3A | Fuse holder inline |
| 199511 | 638 | ◆ | 5x20/6.3x32 | $250V_{AC}$ | 10A VDE/16A UL | Fuse base SMD |
| 199537 | | ◆ | 5x20/6.3x32 | $500V_{AC}/250V_{AC}$ | 10A VDE/16A UL | Fuse base PCB |
| 199530 | 639 | ◆ | 6.3x32 | $500V_{AC}/250V_{AC}$ | 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 | $500V_{AC}/250V_{AC}$ | 16A VDE/30A UL | Fuse holder PCB mount, w/o cap |
| 199552 | | | | | | Fuse carrier screw cap for fuse holder |
| 199555 | 640 | ◆ | 6.3x32 | $500V_{AC}/250V_{AC}$ | 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 | $250V_{AC}$ | 10A VDE/16A UL | Fuse holder PCB mount horizontal w/ bayonet carrier |
| 7100128 | 640 | ◆ | 6.3x32 | $250V_{AC}$ | 10A VDE/16A UL | Fuse holder PCB mount vertical w/ bayonet carrier |
| 7100129 | 641 | ◆ | 6.3x32 | $250V_{AC}$ | 10A VDE/16A UL | Fuse holder panel mount w/ bayonet carrier, solder |
| 199052 | 641 | ◆ | 6.3x32 | $250V_{AC}$ | 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 | $250V_{AC}$ | 10A max | Fuse base PCB |
| 7100114 | 643 | ◆ | 5x20/6.3x32 | $250V_{AC}$ | 10A VDE/16A UL | Fuse holder PCB horizontal mount w/ bayonet |
| 7100116 | | | 5x20/6.3x32 | $250V_{AC}$ | 10A VDE/16A UL | Fuse holder PCB vertical mount w/o bayonet |
| 7100123 | | ◆ | 5x20/6.3x32 | $250V_{AC}$ | 10A VDE/10A UL | Fuse holder panel mount w/ out carrier, solder |
| 7100124 | | | 5x20/6.3x32 | $250V_{AC}$ | 10A VDE/20A UL | Fuse holder panel mount w/o bayonet carrier, solder |
| 7200108 | | | 5x20 | | | Fuse carrier bayonet for 5x20 |
| 7200109 | | | 6.3x32 | | | Fuse carrier bayonet for 6.3x32 |



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# 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 th 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 Urat

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 electri circuit.

$$I_1 \geq I_p$$

### 3.4 Voltage Drop ΔU

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 Ir 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 Inf by the voltage drop ΔU 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 Ip) is not greater than 35 A or max. 10 Irat, 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 extinguis 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) |


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## 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

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

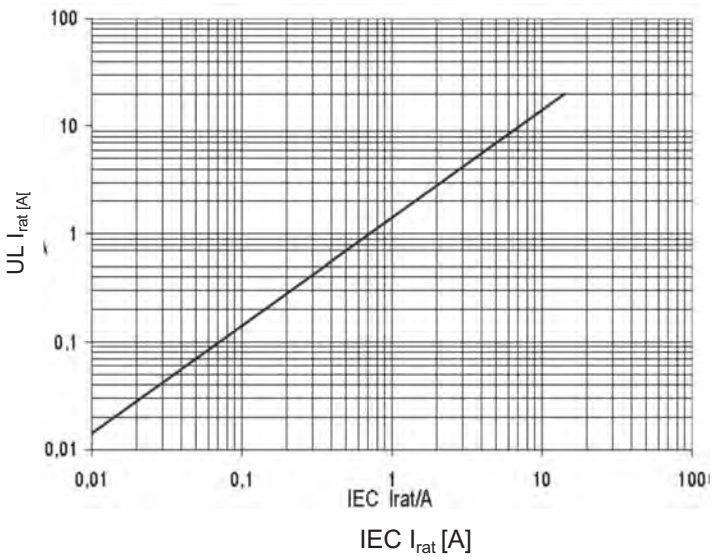


Figure 1

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

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

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

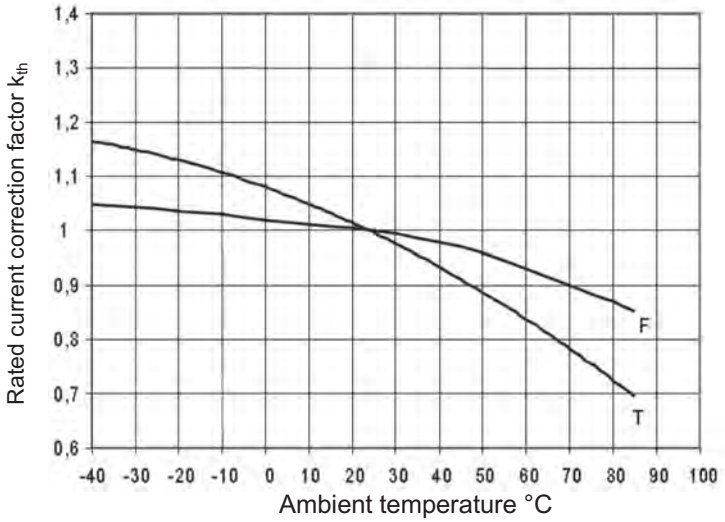


Figure 2

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


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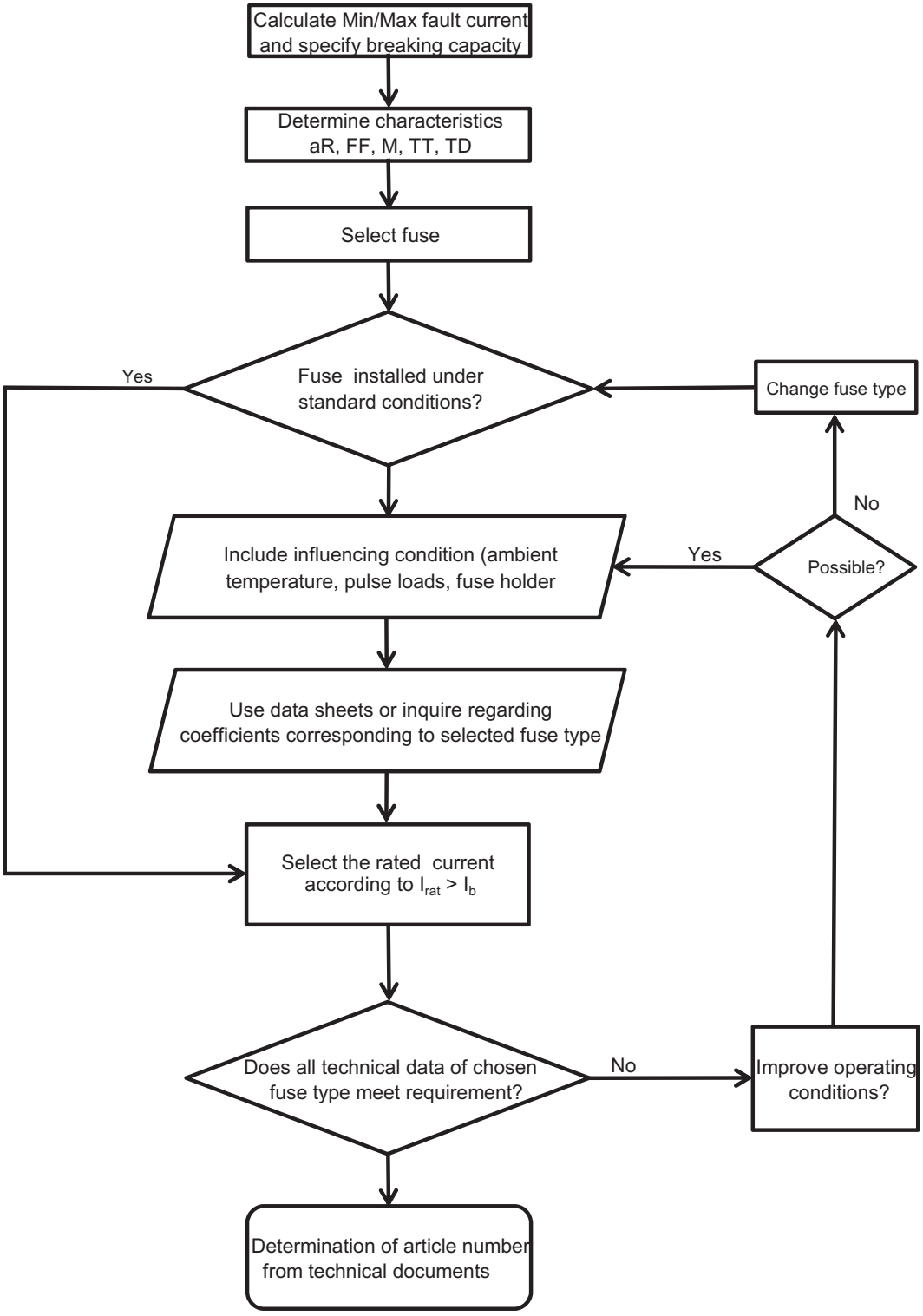
## 9 Selection diagram



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FUSES

## G

E167295

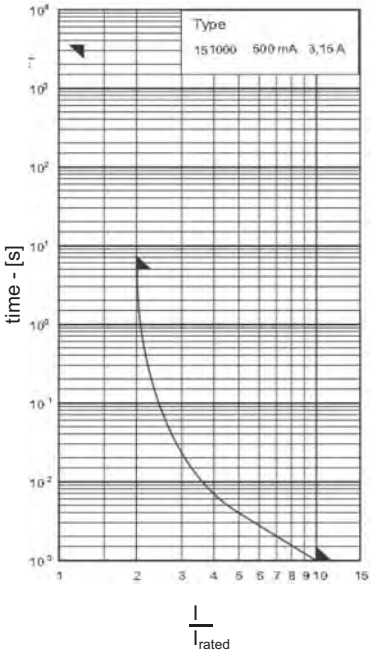
RoHS

| Rated Voltage [Un] | Rated Breaking Test Voltage | Rated Breaking Test Capacity | Class | Standard(s) |
|---|---|---|---|---|
| $32V_{DC}$ | $32V_{DC}$ | 50A | FF | UL 248-14<br>IEC 60068-2-6<br>IEC 60127-4 |

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

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

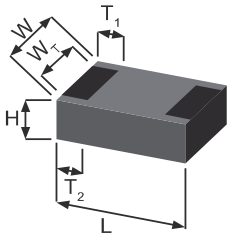
**Time-Current Characteristics**



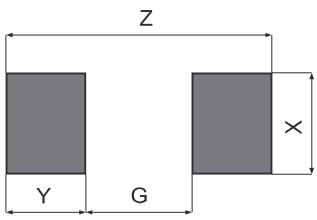

Tape reel ordering, add following suffix to article number

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

| | Fusing Time Limits | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Rated Current | $1.25I_n$ | | $2I_n$ | | $2.75I_n$ | | $4I_n$ | | $10I_n$ | |
| | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| 500mA - 3A | 1h | — | — | 1s | — | — | — | — | — | 1ms |




| | Dimensions [mm] |
|---|---|
| H | 0.32 ± 0.05 |
| L | 1.0 ± 0.05 |
| W | 0.5 ± 0.05 |
| $W_T$ | > 75% of W |
| $T_1$ | 0.2+0.1/-0.15 |
| $T_2$ | 0.2 ± 0.1 |




| Reflow | Solder Pad Dimensions [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

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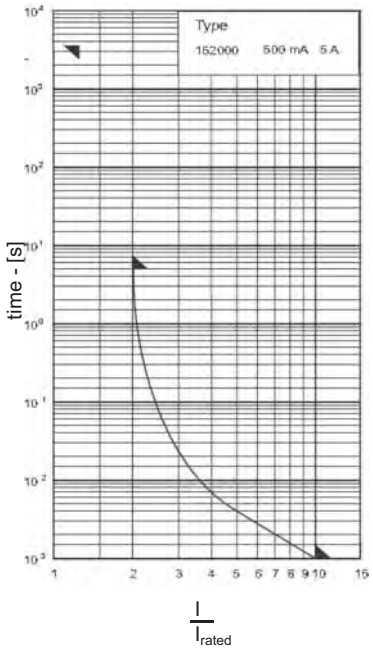
| GSS | Rated Voltage [Un] | Rated Breaking Test Voltage | Rated Breaking Test Capacity | Class | Standard(s) |
|---|---|---|---|---|---|
| E167295 | 32$V_{DC}$ | 32$V_{DC}$ | 50A | FF | UL 248-14<br>IEC 60068-2-6<br>IEC 60127-4 |

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

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

[1] 50A @ 50$V_{DC}$ with VDE approval

**Time-Current Characteristics**




Tape reel ordering, add following suffix to article number

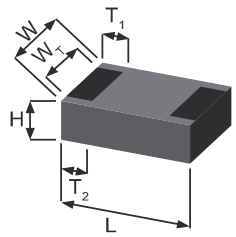
GT-1k (1 000 pieces on tape reel)

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

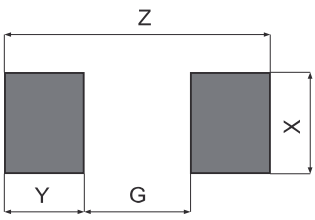
GT-20k (20 000 pieces on tape reel)

e.g. 152000.3.15GT-5k

| | Fusing Time Limits | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Rated Current | 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 |
| 500mA - 3A | 1h | — | — | 5s | — | — | — | — | — | 1ms |




| | Dimensions [mm] |
|---|---|
| H | 0.45+01/-0.05 |
| L | 1.55 ± 0.05 |
| W | 0.85 ± 0.1 |
| $W_T$ | > 75% of W |
| $T_1$ | 0.3+0.15/-0.2 |
| $T_2$ | 0.3+0.15/-0.2 |




| Reflow | Solder Pad Dimensions [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

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FUSES

## G

E167295

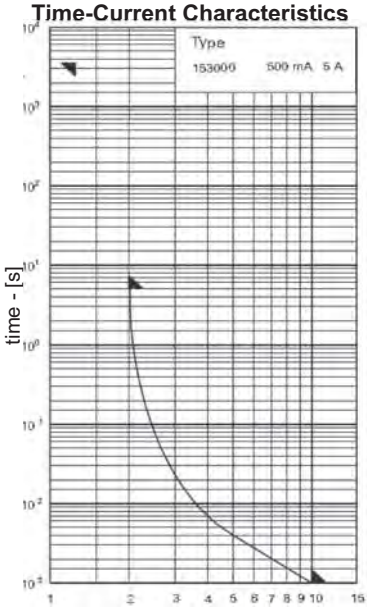
RoHS

| Rated Voltage [Un] | Rated Breaking Test Voltage | Rated Breaking Test Capacity | Class | Standard(s) |
|---|---|---|---|---|
| $32V_{DC}$ | $32V_{DC}$ | 50A | FF | UL 248-14<br>IEC 60068-2-6<br>IEC 60127-4 |

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

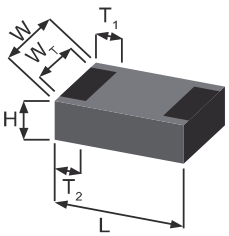
| Rated Current $I_n$ [A] | Article Number | UL rec | Rated Breaking Current [A] | Voltage Drop [mV] | Cold Resistance [mΩ] | Pre-arcing $I^2t$ @ $10I_n$ [$A^2s$] | Approvals | Marking |
|---|---|---|---|---|---|---|---|---|
| 0.500 | 153000.0.500 | ✓ | 50A @ $32V_{DC}$ | 374 | 570 | 0.0009 | | F |
|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

**Time-Current Characteristics**

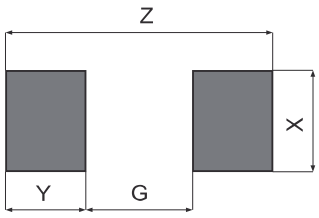



Tape reel ordering, add following suffix to article number
GT-1k (1 000 pieces on tape reel)
GT-5k (5 000 pieces on tape reel)
GT-20k (20 000 pieces on tape reel)
e.g. 153000.1.750GT-5k

| | Fusing Time Limits | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Rated Current | $1.25I_n$ | | $2I_n$ | | $2.75I_n$ | | $4I_n$ | | $10I_n$ | |
| | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| 500mA - 3A | 1h | — | — | 5s | — | — | — | — | — | 1ms |




| | Dimensions [mm] |
|---|---|
| H | 0.45+01/-0.05 |
| L | 2.0 ± 0.1 |
| W | 1.25 ± 0.15 |
| $W_T$ | > 75% of W |
| $T_1$ | 0.4+0.1/-0.2 |
| $T_2$ | 0.4+0.1/-0.2 |




| Reflow | Solder Pad Dimensions [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

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| G | Rated Voltage [Un] | Rated Breaking Test Voltage | Rated Breaking Test Capacity | Class | Standard(s) |
|---|---|---|---|---|---|
| E167295 RoHS | 32V$_{DC}$ | 32V$_{DC}$ | 50A | FF | UL 248-14<br>IEC 60068-2-6<br>IEC 60127-4 |

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

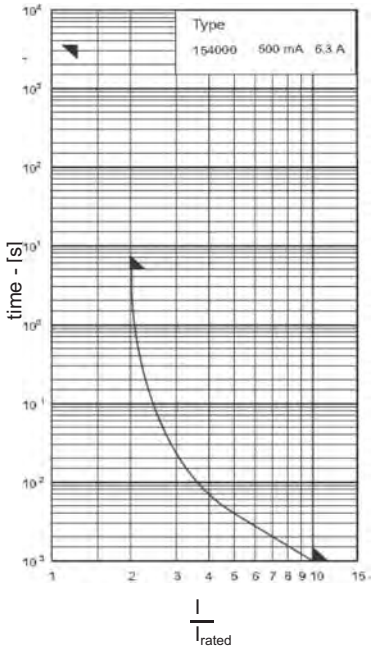
| Rated Current $I_n$ [A] | Article Number | UL rec | Rated Breaking Current [A] | Voltage Drop [mV] | Cold Resistance [mΩ] | Pre-arcing $I^2t$ @ 10$I_n$ [A$^2$s] | Approvals V - VDE | Marking |
|---|---|---|---|---|---|---|---|---|
| 0.250 | 154000.0.250 | * | [1] | 310 | 880 | 0.0001 | | |
| 0.375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

* UL listed

[1] 50A @ 63V$_{DC}$, 100A @ 125V$_{AC}$

[2] 50A @50V$_{DC}$ with VDE approval

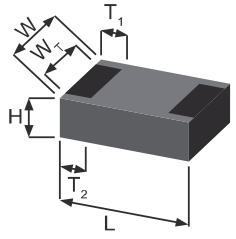
**Time-Current Characteristics**



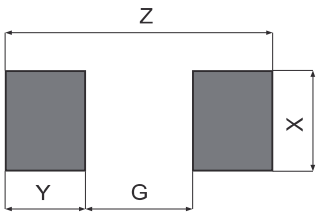

Tape reel ordering, add following suffix to article number

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. 154000.6.3GT-5k

| Rated Current | Fusing Time Limits | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1$I_n$ | | 1.25$I_n$ | | 2$I_n$ | | 3$I_n$ | | 10$I_n$ | |
| | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| 250mA - 375mA | 1h | – | – | – | – | 5s | – | 200ms | – | – |
| 500mA - 5A | 1h | – | – | – | – | 5s | – | – | – | 1ms |




| | Dimensions [mm] |
|---|---|
| H | 0.55 ± 0.1 |
| L | 3.2+0.1/-0.2 |
| W | 1.6 ± 0.15 |
| W$_T$ | > 75% of W |
| T$_1$ | 0.5 ± 0.25 |
| T$_2$ | 0.3 ± 0.25 |




| Reflow | Solder Pad Dimensions [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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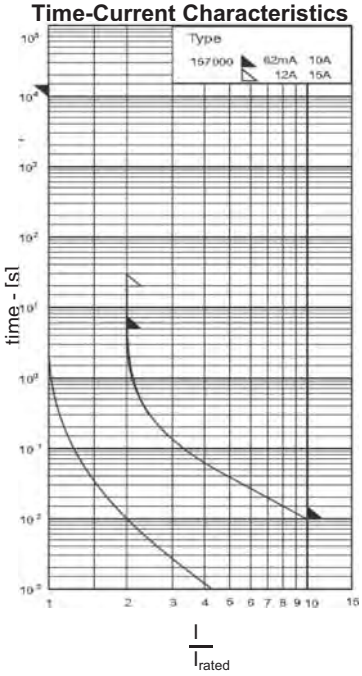
SIBA
FUSES

| GSS | Rated Voltage [Un] | Rated Breaking Test Voltage | Rated Breaking Test Capacity | Class | Standard(s) |
|---|---|---|---|---|---|
| E167295 RoHS | $125/65V_{AC/DC}$ | $125V_{AC/DC}$ | 50A | F | UL 248-14 |
| | | $65V_{AC/DC}$ | 50A | | CSA C22.s - No 248.14 |

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

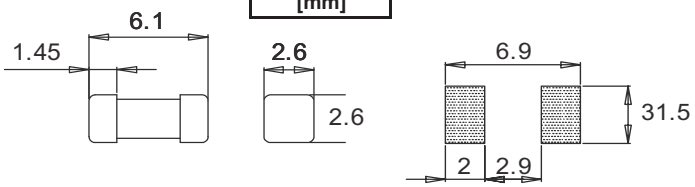
| Rated Current $I_n$ [A] | Article Number | UL rec | Rated Breaking Current [A] | Voltage Drop [mV] | Cold Resistance [mΩ] | Pre-arcing $I^2t$ @ $10I_n$ [$A^2s$] | Approvals | Marking |
|---|---|---|---|---|---|---|---|---|
| 0.062 | 157000.0.062 | ✓ | 50A @ $125V_{AC/DC}$ | 600 | 5 500 | 0.00019 | | |
| 0.080 | 157000.0.080 | ✓ | 50A @ $125V_{AC/DC}$ | 550 | 4 050 | 0.00033 | | |
| 0.100 | 157000.0.100 | ✓ | 50A @ $125V_{AC/DC}$ | 350 | 2 000 | 0.0014 | | |
| 0.125 | 157000.0.125 | ✓ | 50A @ $125V_{AC/DC}$ | 240 | 1 500 | 0.0028 | | |
| 0.160 | 157000.0.160 | ✓ | 50A @ $125V_{AC/DC}$ | 350 | 1 400 | 0.0031 | | |
| 0.200 | 157000.0.200 | ✓ | 50A @ $125V_{AC/DC}$ | 250 | 800 | 0.0066 | | |
| 0.250 | 157000.0.250 | ✓ | 50A @ $125V_{AC/DC}$ | 230 | 600 | 0.011 | | |
| 0.315 | 157000.0.315 | ✓ | 50A @ $125V_{AC/DC}$ | 210 | 420 | 0.023 | | |
| 0.375 | 157000.0.375 | ✓ | 50A @ $125V_{AC/DC}$ | 180 | 300 | 0.043 | | |
| 0.400 | 157000.0.400 | ✓ | 50A @ $125V_{AC/DC}$ | 180 | 290 | 0.048 | | |
| 0.500 | 157000.0.500 | ✓ | 50A @ $125V_{AC/DC}$ | 180 | 230 | 0.073 | | |
| 0.630 | 157000.0.630 | ✓ | 50A @ $125V_{AC/DC}$ | 180 | 190 | 0.12 | | |
| 0.750 | 157000.0.750 | ✓ | 50A @ $125V_{AC/DC}$ | 170 | 160 | 0.18 | | |
| 0.800 | 157000.0.800 | ✓ | 50A @ $125V_{AC/DC}$ | 160 | 130 | 0.26 | | |
| 1 | 157000.1 | ✓ | 50A @ $125V_{AC/DC}$ | 150 | 100 | 0.45 | | |
| 1.25 | 157000.1.25 | ✓ | 50A @ $125V_{AC/DC}$ | 150 | 78 | 0.68 | | |
| 1.5 | 157000.1.5 | ✓ | 50A @ $125V_{AC/DC}$ | 150 | 63 | 0.85 | | |
| 1.6 | 157000.1.6 | ✓ | 50A @ $125V_{AC/DC}$ | 140 | 58 | 1.05 | | |
| 2 | 157000.2 | ✓ | 50A @ $125V_{AC/DC}$ | 100 | 37 | 0.57 | | |
| 2.5 | 157000.2.5 | ✓ | 50A @ $125V_{AC/DC}$ | 100 | 28 | 1.1 | | |
| 3 | 157000.3 | ✓ | 50A @ $125V_{AC/DC}$ | 100 | 23 | 1.5 | | |
| 3.15 | 157000.3.15 | ✓ | 50A @ $125V_{AC/DC}$ | 100 | 21 | 1.9 | | |
| 3.5 | 157000.3.5 | ✓ | 50A @ $125V_{AC/DC}$ | 100 | 19 | 2.5 | | |
| 4 | 157000.4 | ✓ | 50A @ $125V_{AC/DC}$ | 100 | 16 | 3.3 | | |
| 5 | 157000.5 | ✓ | 50A @ $125V_{AC/DC}$ | 90 | 12.5 | 6.2 | | |
| 6.3 | 157000.6.3 | ✓ | 50A @ $125V_{AC/DC}$ | 90 | 10 | 9.1 | | |
| 7 | 157000.7 | ✓ | 50A @ $125V_{AC/DC}$ | 90 | 8.6 | 11 | | |
| 10 | 157000.10 | ✓ | 50A @ $125V_{AC/DC}$ | 90 | 5.9 | 27 | | |
| 12 | 157000.12 | ✓ | 50A @ $125V_{AC/DC}$ | 90 | 4.9 | 45 | | |
| 15 | 157000.15 | ✓ | 50A @ $125V_{AC/DC}$ | 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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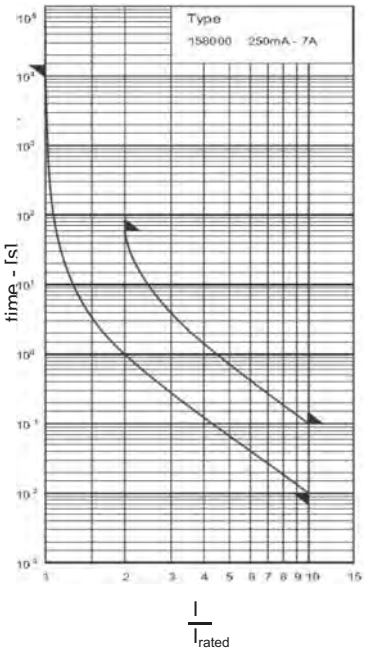
| G | Rated Voltage [Un] | Rated Breaking Test Voltage | Rated Breaking Test Capacity | Class | Standard(s) |
|---|---|---|---|---|---|
| c UL us E167295 RoHS | 125V$_{AC/DC}$ | 125V$_{AC/DC}$ | 50A | T | UL 248-14<br>CSA C22.s - No 248.14 |

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

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

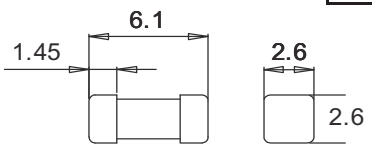
[1] 50A @ 125V$_{AC}$ and 50A with UL recognition

**Time-Current Characteristics**

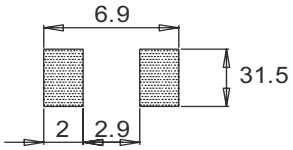



Tape reel ordering, add following suffix to article number
GT - (1 000 pieces on tape reel)
e.g. 158000.2.5GT

Dimensions [mm]




Recommended Pad Layout




| Rated Current | Fusing Time Limits | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1$I_n$ | | 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 | 4h | — | — | 60s | — | 5s | — | — | 10ms | 100ms |

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

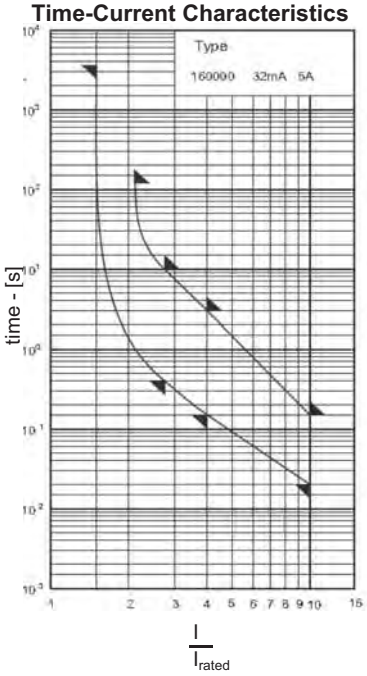
| G | Rated Voltage [Un] | Rated Breaking Test Voltage | Rated Breaking Test Capacity | Class | Standard(s) |
|---|---|---|---|---|---|
| cULus E167295 RoHS | 250V$_{AC}$ | 250V$_{AC}$ | 100A | T | IEC 60127 |

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

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

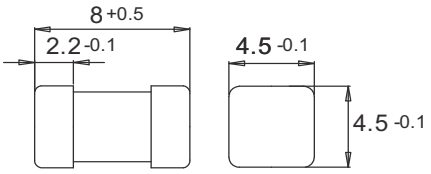
IEC 32mA - 250mA, 100A @ 125V$_{DC}$
IEC 315mA - 5A, 100A @ 60V$_{DC}$

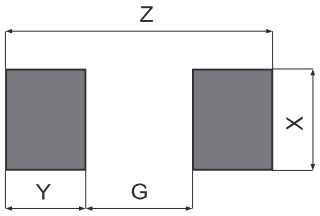
**Time-Current Characteristics**




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 Dimensions [mm] | | wave |
|---|---|---|---|
| 3.6 | G | | 3.6 |
| 5.6 | X | | 6.8 |
| 2.7 | Y | | 4.2 |
| 9.0 | Z | | 12.0 |

| | Fusing Time Limits | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Rated Current | 1$I_n$ | | 2$I_n$ | | 2.75$I_n$ | | 4$I_n$ | | 10$I_n$ | |
| | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| 32mA - 5A | 1h | — | — | 2m | 400ms | 10ms | 150ms | 3s | 20ms | 150ms |

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



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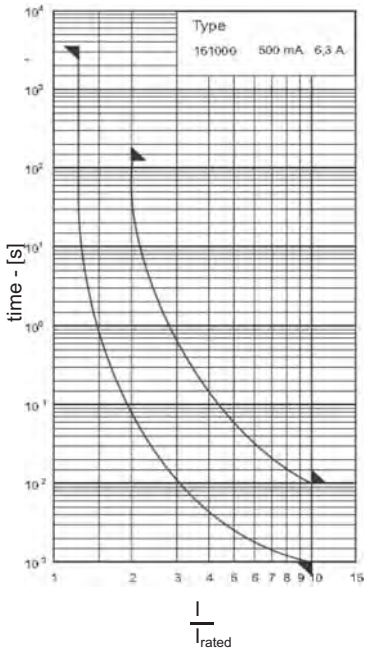
| G | Rated Voltage [Un] | Rated Breaking Test Voltage | Rated Breaking Test Capacity | Class | Standard(s) |
|---|---|---|---|---|---|
| RoHS | 250V$_{AC}$ | 250V$_{AC}$ | 100A | F | IEC 60127-4 |

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

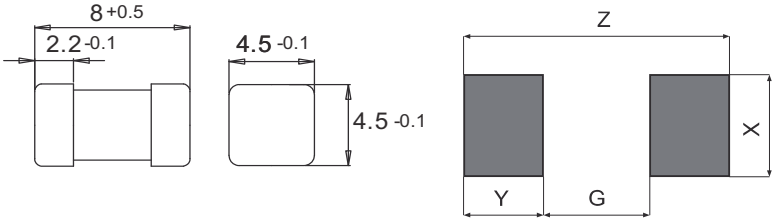
| Rated Current $I_n$ [A] | Article Number | | Rated Breaking Current [A] | Voltage Drop [mV] | Power Dissipation @ 1.25$I_n$ [mW] | Pre-arcing $I^2t$ [A$^2$s] | Approvals | Marking |
|---|---|---|---|---|---|---|---|---|
| 0.500 | 161000.0.500 | | 100A @ 250V$_{AC}$ | 200 | 300 | 0.076 | | |
| 0.630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

**Time-Current Characteristics**




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 [mm] | wave |
|---|---|---|
| 3.6 | G | 3.6 |
| 5.6 | X | 6.8 |
| 2.7 | Y | 4.2 |
| 9.0 | Z | 12.0 |

| | Fusing Time Limits | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Rated Current | 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 |
| 500mA - 6.3A | 1h | — | — | 120s | — | — | — | — | 1ms | 0ms |

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

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## G

E167295

RoHS

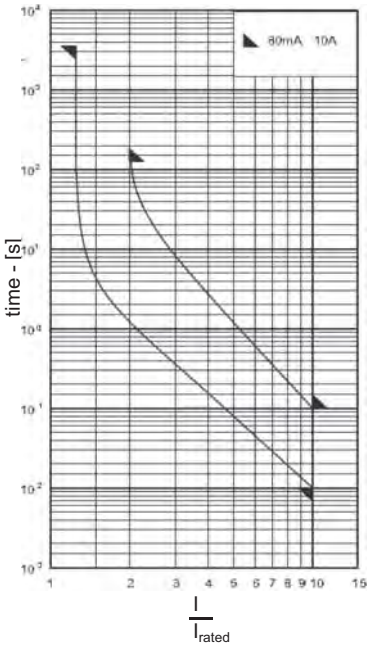
| Rated Voltage [Un] | Rated Breaking Test Voltage | Rated Breaking Test Capacity | Class | Standard(s) |
|---|---|---|---|---|
| 250V$_{AC}$ | 250V$_{AC}$ | 100A | T | UL 248-14<br>IEC 60127-4/2 |

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

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

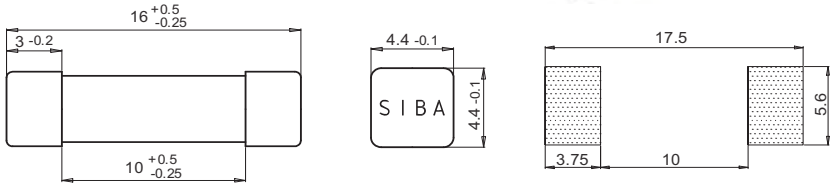
[1] 1.5kA @ 250V$_{DC}$

**Time-Current Characteristics**




Tape reel ordering, add following suffix to article number
GT - (1 500 pieces on tape reel)
e.g. 160016.1.25GT

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

RoHS

**Rated Voltage [Un]** 250V$_{AC}$

**Rated Breaking Test** Voltage 250V$_{AC}$ Capacity 35A

**Class** TT

**Standard(s)** IEC 60127-4

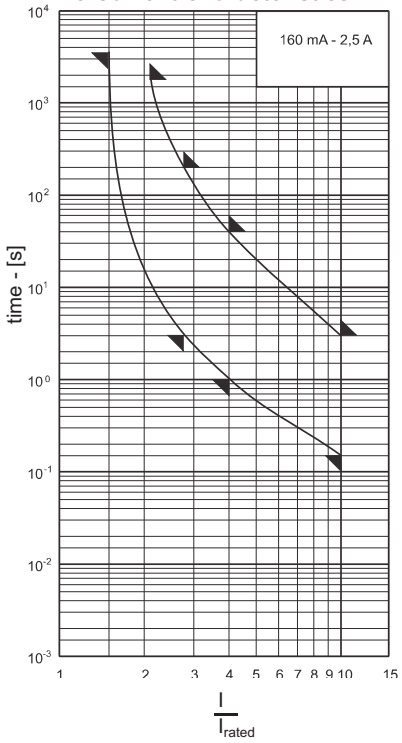
4.5mmx16mm - Ceramic Tube w/Filler, Contacts - Copper Alloy - Silver Plated

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

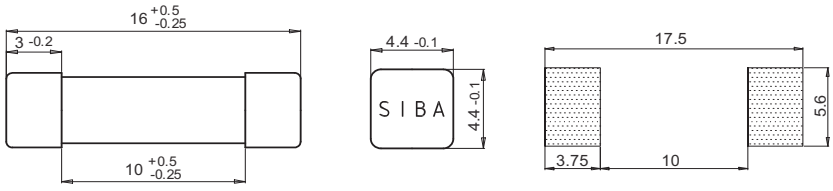
* Data on request

Tape reel ordering, add following suffix to article number
GT - (1 500 pieces on tape reel)
e.g. 163016.1.25GT

**Time-Current Characteristics**




Dimensions [mm]




Recommended Pad Layout

| | Fusing Time Limits | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Rated Current | 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 |
| 160mA - 2.5A | 1h | — | 30m | — | 3s | 200s | 1s | 40s | 150ms | 3s |

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

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## G

E167295

| Rated Voltage [Un] | Rated Breaking Test Voltage | Rated Breaking Test Capacity | Class | Standard(s) |
|---|---|---|---|---|
| 250V$_{AC}$ | 250V$_{AC}$ | 35A | F | IEC 60127-3/3<br>EN 60127-3/3<br>VDE 0820-3/3 |

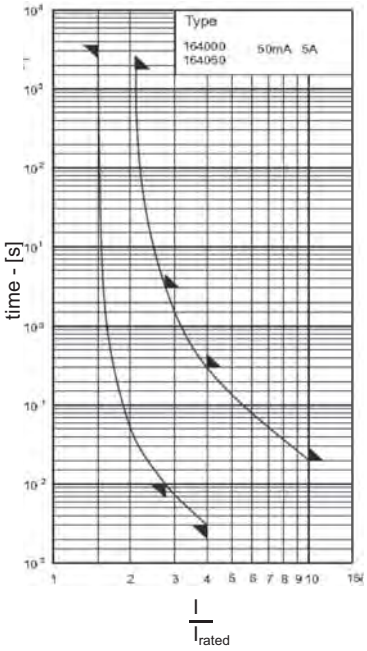
8.4mmx7.6mm - Thermoplastic, Temperature Resistant, Self Extinguishing

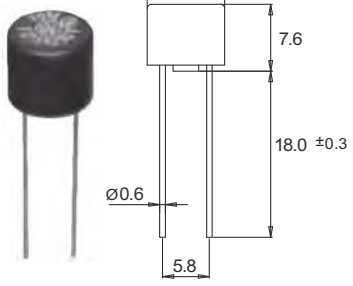
| Rated Current $I_n$ [A] | x=0, Long Leeds x=5, Short Leeds Article Number | UL rec | Rated Breaking Current [A] | Voltage Drop [mV] | Power Dissipation @ 1.5$I_n$ [mW] | Pre-arcing $I^2t$ [A$^2$s] | Approvals S - Semko | Marking |
|---|---|---|---|---|---|---|---|---|
| 0.050 | 1640X0.0.050 | ✓ | 35A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

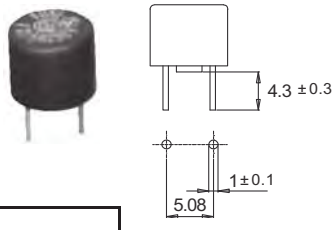
X=0 - Long leads
X=5 - Short leads

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 1.5$I_n$ Min | 1.5$I_n$ Max | 2.1$I_n$ Min | 2.1$I_n$ Max | 2.75$I_n$ Min | 2.75$I_n$ Max | 4$I_n$ Min | 4$I_n$ Max | 10$I_n$ Min | 10$I_n$ Max |
|---|---|---|---|---|---|---|---|---|---|---|
| 50mA - 6.3A | 1h | — | 30m | — | 10ms | 3s | 3ms | 300ms | — | 20ms |

Dimensions [mm]

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## G

E167295

RoHS

| Rated Voltage [Un] | Rated Breaking Test Voltage | Rated Breaking Test Capacity | Class | Standard(s) |
|---|---|---|---|---|
| 250V$_{AC}$ | 250V$_{AC}$ | 50A | F | UL 248-14<br>IEC 60127-4/2 |

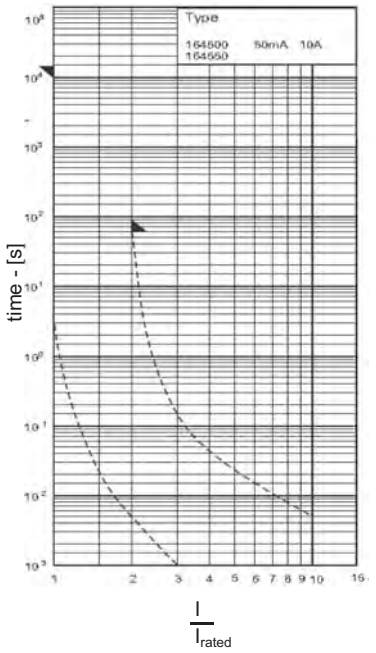
8.4mmx7.6mm - Thermoplastic, Temperature Resistant, Self Extinguishing

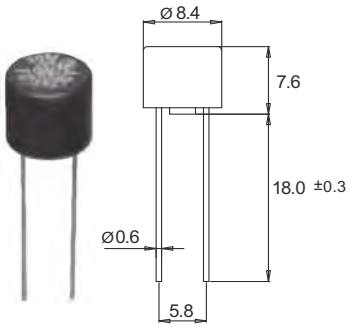
| Rated Current $I_n$ [A] | x=0, Long Leeds x=5, Short Leeds<br>Article Number | UL | Rated Breaking Current [A] | Voltage Drop [mV] | Power Dissipation @ 1.0$I_n$ [mW] | Pre-arcing $I^2t$ [$A^2s$] | Approvals | Marking |
|---|---|---|---|---|---|---|---|---|
| 0.050 | 1645X0.0.050 | ✓ | 50A @ 250V$_{AC}$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

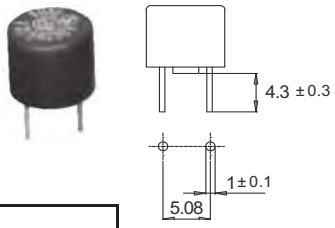
X=0 - Long leads
X=5 - Short leads

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 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1$I_n$ | | 1.35$I_n$ | | 1.50$I_n$ | | 2.00$I_n$ | | | |
| | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| 50mA - 6.3A | 4h | — | — | — | — | — | — | 60s | — | — |

Dimensions [mm]

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## G

RoHS

| Rated Voltage [Un] | Rated Breaking Test Voltage | Rated Breaking Test Capacity | Class | Standard(s) |
|---|---|---|---|---|
| 250V$_{AC}$ | 250V$_{AC}$ | 35A | M | IEC 60127-3 |

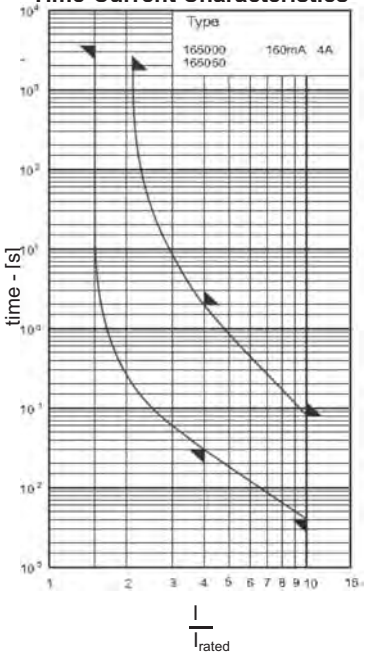
8.4mmx7.6mm - Thermoplastic, Temperature Resistant, Self Extinguishing

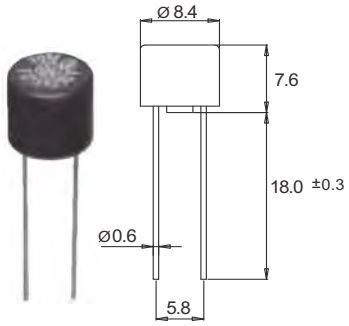
| Rated Current $I_n$ [A] | x=0, Long Leeds x=5, Short Leeds Article Number | UL rec | Rated Breaking Current [A] | Voltage Drop [mV] | Power Dissipation @ 1.5$I_n$ [mW] | Pre-arcing $I^2t$ [$A^2s$] | Approvals | Marking |
|---|---|---|---|---|---|---|---|---|
| 0.160 | 1650X0.0.160 | | 35A @ 250V$_{AC}$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

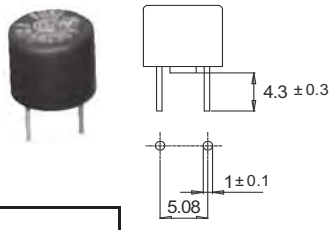
X=0 - Long leads
X=5 - Short leads

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

**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 |
| 50mA - 6.3A | 1h | — | — | 30m | — | — | 30ms | 2s | 4ms | 80ms |

Dimensions [mm]

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## G

E167295

RoHS

| Rated Voltage [Un] | Rated Breaking Test Voltage | Rated Breaking Test Capacity | Class | Standard(s) |
|---|---|---|---|---|
| 250V$_{AC}$ | 250V$_{AC}$ | 35A | T | IEC 60127-43/4<br>EN 60127-43/4<br>VDE 0820 - 3/4 |

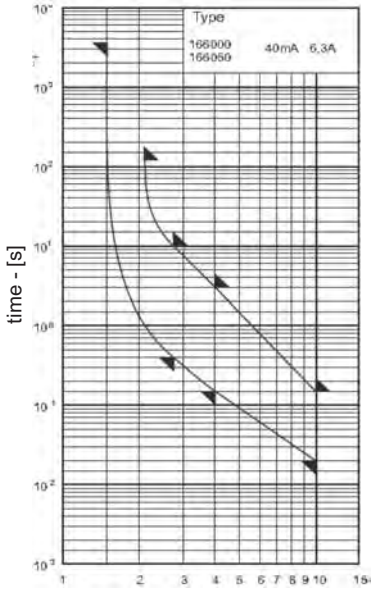
8.4mmx7.6mm - Thermoplastic, Temperature Resistant, Self Extinguishing

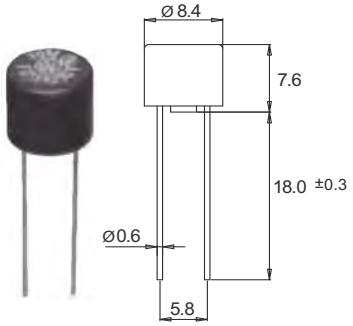
| Rated Current $I_n$ [A] | x=0, Long Leeds x=5, Short Leeds Article Number | UL rec | Rated Breaking Current [A] | Voltage Drop [mV] | Power Dissipation @ 1.5$I_n$ [mW] | Pre-arcing $I^2t$ [A$^2$s] | Approvals S - Semko V - VDE | Marking |
|---|---|---|---|---|---|---|---|---|
| 0.040 | 1660X0.0.040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

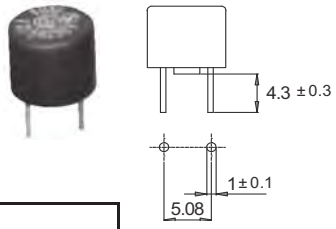
X=0 - Long leads
X=5 - Short leads

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

**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 |
| 50mA - 6.3A | 1h | — | — | 2m | 400ms | 10s | 150ms | 3s | 20ms | 150ms |

Dimensions [mm]

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## G

E167295

RoHS

| Rated Voltage [Un] | Rated Breaking Test Voltage | Rated Breaking Test Capacity | Class | Standard(s) |
|---|---|---|---|---|
| 250V$_{AC}$ | 250V$_{AC}$ | 50A | T | UL 248-14<br>CSA C22.s<br>No 248.14 |

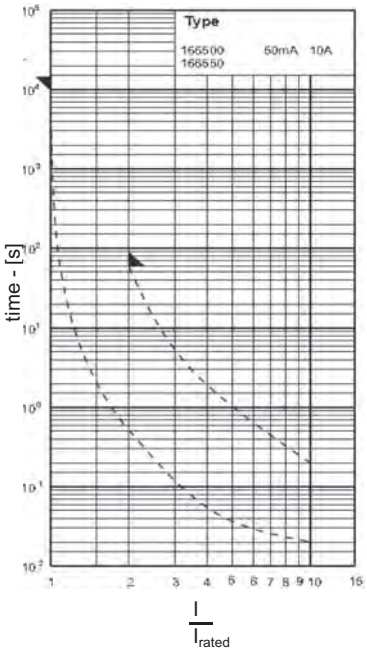
8.4mmx7.6mm - Thermoplastic, Temperature Resistant, Self Extinguishing

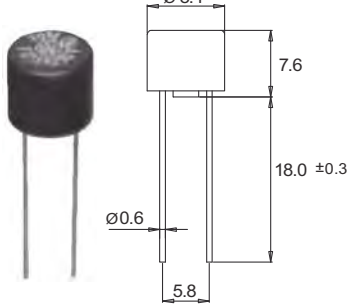
| Rated Current $I_n$ [A] | x=0, Long Leeds x=5, Short Leeds Article Number | UL | Rated Breaking Current [A] | Voltage Drop [mV] | Power Dissipation @ 1.5$I_n$ [mW] | Pre-arcing $I^2t$ [A$^2$s] | Approvals S - Semko | Marking |
|---|---|---|---|---|---|---|---|---|
| 0.050 | 1665X0.0.050 | ✓ | 50A @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

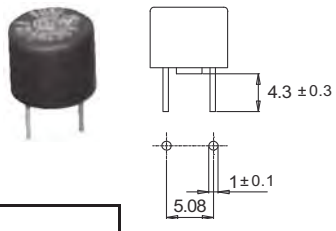
X=0 - Long leads
X=5 - Short leads

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**




| | Fusing Time Limits | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Rated Current | 1$I_n$ | | 1.35$I_n$ | | 1.50$I_n$ | | 2.00$I_n$ | | | |
| | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| 50mA - 10A | 4h | — | — | — | — | — | — | 60s | — | — |

Dimensions [mm]



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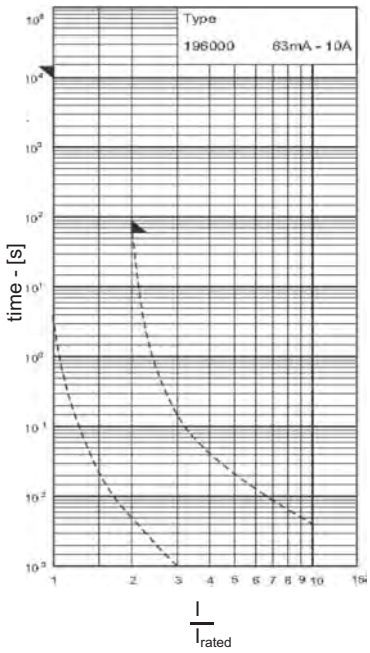
| G | Rated Voltage [Un] | Rated Breaking Test Voltage | Rated Breaking Test Capacity | Class | Standard(s) |
|---|---|---|---|---|---|
| c UL us E167295 RoHS | 250V$_{AC}$ | 250V$_{AC}$ | 50A | F | UL 248-14 |

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

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

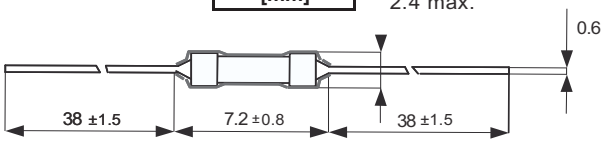
[1] UL recognition only

**Time-Current Characteristics**



Tape reel ordering, add following suffix to article number
GT - (5 000 pieces on tape reel)
e.g. 196000.10GT

Dimensions [mm]




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

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## G

| Rated Voltage [Un] | Rated Breaking Test Voltage | Rated Breaking Test Capacity | Class | Standard(s) |
|---|---|---|---|---|
| $250V_{AC}$ | $250V_{AC}$ | 50A | FF | |

E180276

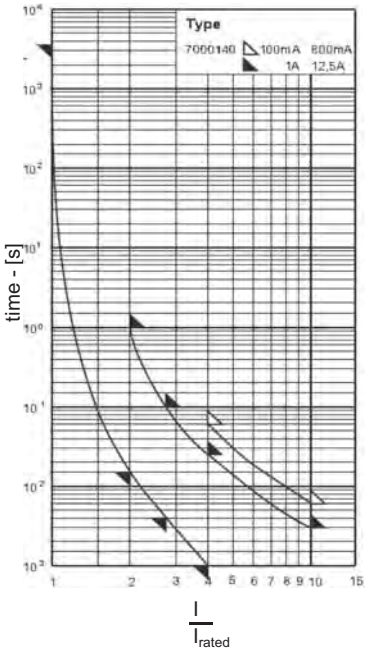
5mmx20mm - Ceramic Tube w/Filler, Contacts - Brass, Nickel Plated

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

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

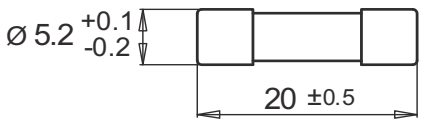
**For 6.3A and higher, consideration should be given to heat dissipation**

**Time-Current Characteristics**




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

Dimensions [mm]




| | Fusing Time Limits | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Rated Current | $1I_n$ | | $2I_n$ | | $2.75I_n$ | | $4I_n$ | | $10I_n$ | |
| | 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

E180276

RoHS

| Rated Voltage [Un] | Rated Breaking Test Voltage | Rated Breaking Test Capacity | Class | Standard(s) |
|---|---|---|---|---|
| $400V_{AC}$ | $400V_{AC}$ | 10kA | FF | |

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

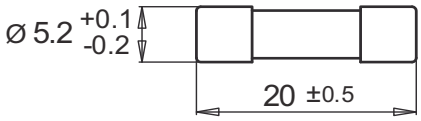
| Rated Current $I_n$ [A] | Article Number | UL rec | Rated Breaking Current [A] | Voltage Drop [mV] | Power Dissipation @ 1.0$I_n$ [mW] | Pre-arcing $I^2t$ [$A^2s$] | Approvals |
|---|---|---|---|---|---|---|---|
| 0.100 | 7000740.0.100 | | 10kA @ $400V_{AC}$ | 4 000 | 0.4 | 0.0016 | |
| 0.125 | 7000740.0.125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

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

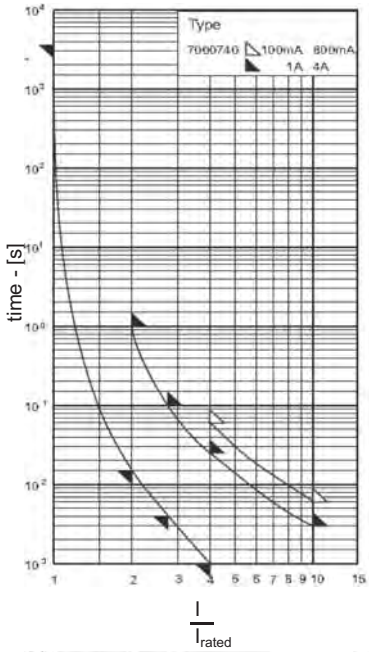
For 6.3A and higher, consideration should be given to heat dissipation

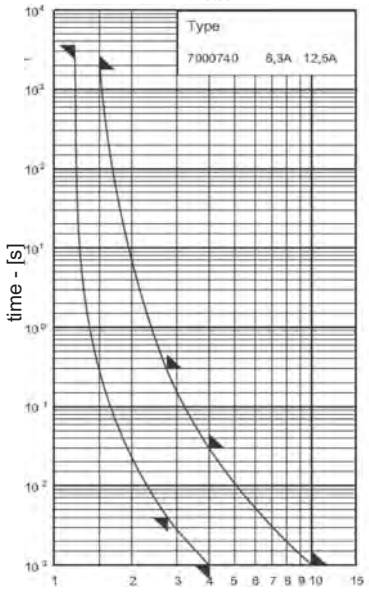
IP - (1 000 pieces)
e.g. 70 007 40.1.25IP

Dimensions [mm]




**Time-Current Characteristics**




| Rated Current | Fusing Time Limits | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1$I_n$ | | 2$I_n$ | | 2.75$I_n$ | | 4$I_n$ | | 10$I_n$ | |
| | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| 100mA - 800A | 1h | — | — | — | — | — | — | 60ms | — | 6ms |
| 1A - 4A | 1h | — | — | 1s | 4ms | 100ms | 1ms | 25ms | — | 3ms |
| Rated Current | 1.2$I_n$ | | 2$I_n$ | | 2.75$I_n$ | | 4$I_n$ | | 10$I_n$ | |
| 1A - 4A | 1h | — | — | 30m | 4ms | 300ms | 1ms | 30ms | — | 1ms |

## G

RoHS

**Rated Voltage [Un]** 660V$_{AC/DC}$

**Rated Breaking Test Voltage** 660V$_{AC/DC}$

**Rated Breaking Test Capacity** 100kA

**Class** aR{FF}

**Standard(s)**

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

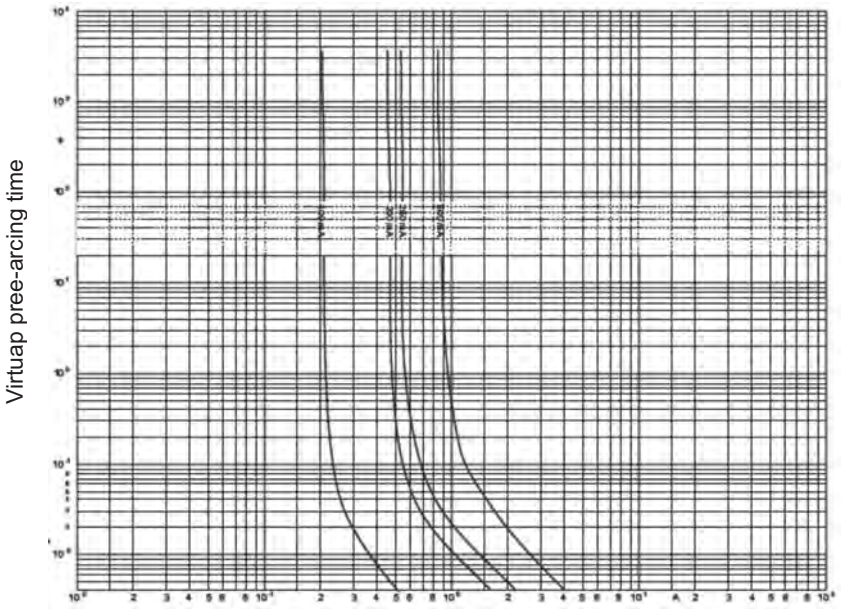
Short Circuit Protection Only

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

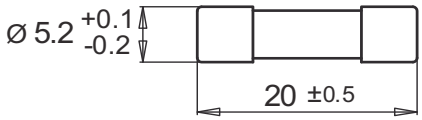
| Weight (kg per 100) |
|---|
| 0.14 |
| Units per Package |
| 10 |

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

**Time-Current Characteristics**



Dimensions [mm]




| | Fusing Time Limits | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Rated Current | 1$I_n$ | | 2$I_n$ | | 2.75$I_n$ | | 4$I_n$ | | 10$I_n$ | |
| | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| 100mA - 500A | 1h | – | – | – | – | – | – | 60ms | – | 6ms |



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## G

E167295

RoHS

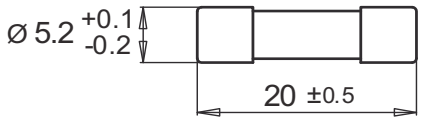
| Rated Voltage [Un] | Rated Breaking Test Voltage | Rated Breaking Test Capacity | Class | Standard(s) |
|---|---|---|---|---|
| 250V$_{AC}$ | 250V$_{AC}$ | 1.5kA | F | IEC 60127-2/2<br>EN 60127-2/2<br>VDE 0820 - 2/2 |

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

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

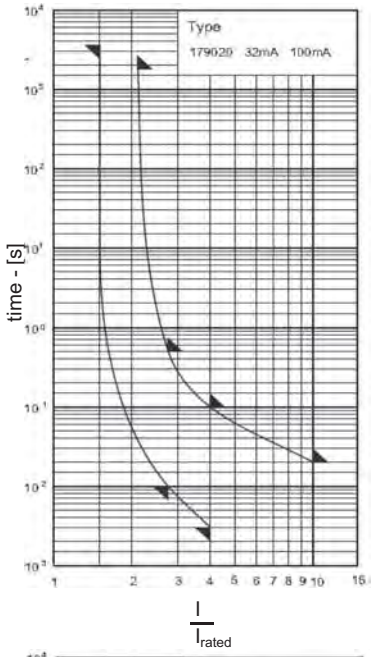
| Weight (kg per 100) |
|---|
| 0.14 |
| **Units per Package** |
| 10 |

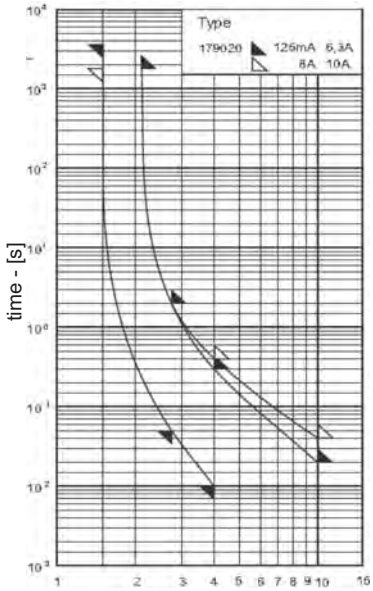
Dimensions [mm]




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 |

SIBA
FUSES

## G

E167295

| Rated Voltage [Un] | Rated Breaking Test Voltage | Rated Breaking Test Capacity | Class | Standard(s) |
|---|---|---|---|---|
| 250V$_{AC}$ | 250V$_{AC}$ | 1.5kA | F | IEC 60127-2/1<br>EN 60127-2/1<br>VDE 0820 - 2/1 |

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

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

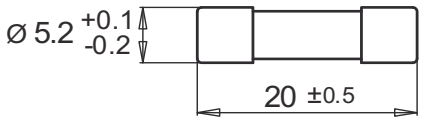
| Weight (kg per 100) |
|---|
| 0.14 |

| Units per Package |
|---|
| 10 |

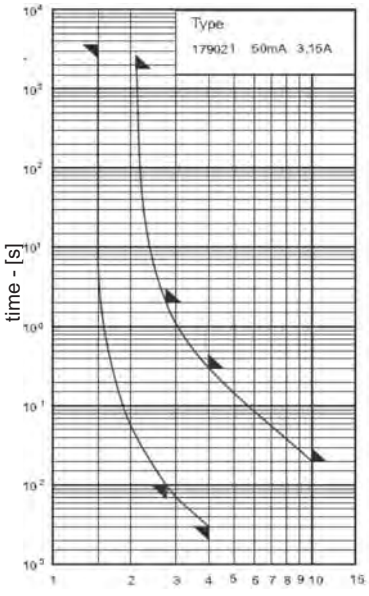
[1] cosφ = 0.7 - 0.8

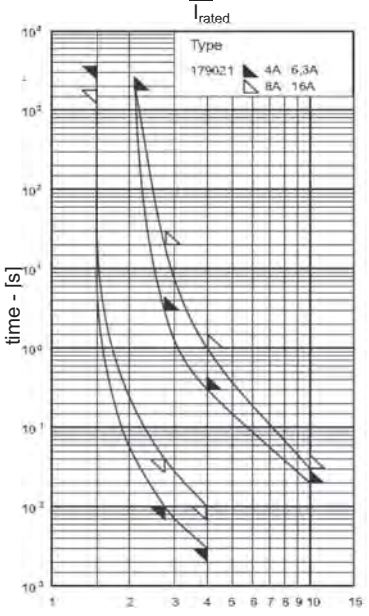
FC - 1 000 pieces with color code
AK - with assembled leaded caps
IP - (1 000 pieces)
e.g. 179021.2.5IP

Dimensions [mm]




**Time-Current Characteristics**




| Rated Current | Fusing Time Limits | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1.5$I_n$ | | 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 | 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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## G

RoHS

| Rated Voltage [Un] | Rated Breaking Test Voltage | Rated Breaking Test Capacity | Class | Standard(s) |
|---|---|---|---|---|
| 250V$_{AC}$ | 250V$_{AC}$ | 1.5kA | F | DIN 41571-1 |

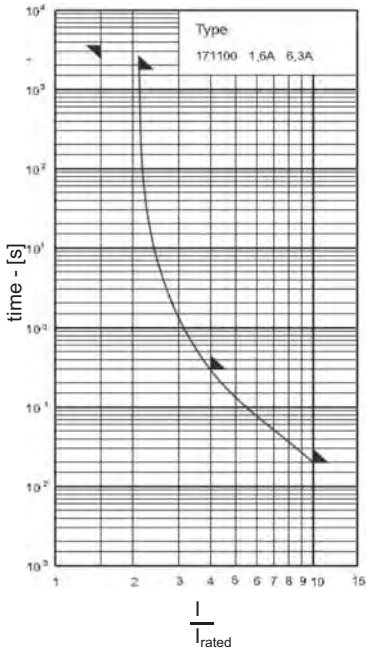
5mmx20mm - Glass Tube w/Filler, Contacts - Brass, Nickel Plated

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

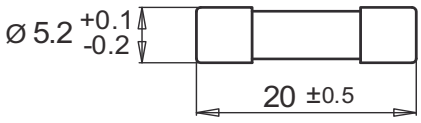
| Weight (kg per 100) |
|---|
| 0.14 |
| Units per Package |
| 10 |

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

**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 - 6.3A | 1h | — | — | 30m | — | — | — | 300ms | — | 20ms |

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## G

RoHS

| Rated Voltage [Un] | Rated Breaking Test Voltage | Rated Breaking Test Capacity | Class | Standard(s) |
|---|---|---|---|---|
| $250V_{AC}$ | $250V_{AC}$ | 80A / 1kA / 300A | M | DIN 41571-2 |

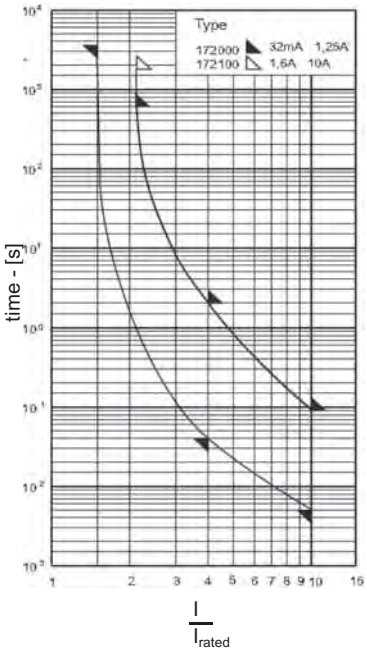
5mmx20mm - Ceramic Tube w/Filler, Contacts - Brass, Nickel Plated

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

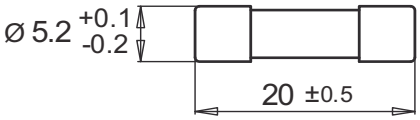
| Weight (kg per 100) |
|---|
| 0.14 |
| Units per Package |
| 10 |

IP - (1 000 pieces)
e.g. 172100.3.15IP

**Time-Current Characteristics**




Dimensions [mm]




| Rated Current | Fusing Time Limits | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | $1.5I_n$ | | $2.1I_n$ | | $2.75I_n$ | | $4I_n$ | | $10I_n$ | |
| | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| 32mA - 1.2.5A | 1h | – | – | 10m | – | – | 40ms | 2s | 5ms | 90ms |
| 1.6A - 10A | 1h | – | – | 30m | – | – | 40ms | 2s | 5ms | 20ms |

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## G

RoHS

| Rated Voltage [Un] | Rated Breaking Test Voltage | Rated Breaking Test Capacity | Class | Standard(s) |
|---|---|---|---|---|
| $250V_{AC}$ | $250V_{AC}$ | 1.5kA | M | DIN 41571-2 |

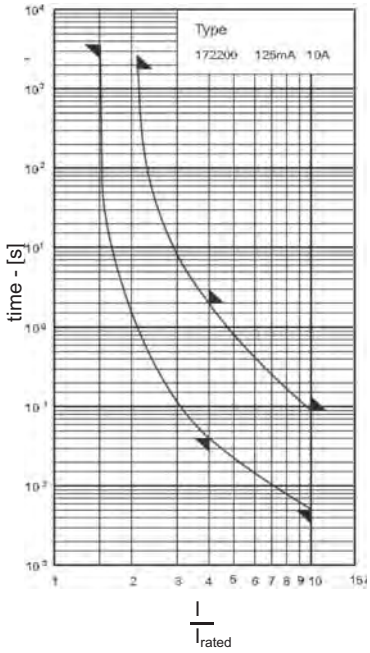
5mmx20mm - Ceramic Tube w/Filler, Contacts - Brass, Nickel Plated

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

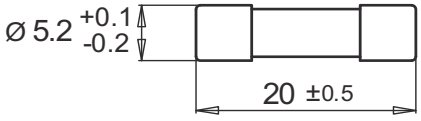
| Weight (kg per 100) |
|---|
| 0.14 |
| Units per Package |
| 10 |

IP - (1 000 pieces)
e.g. 172200.10IP

**Time-Current Characteristics**



Dimensions [mm]




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

SIBA
FUSES

## G

E167295

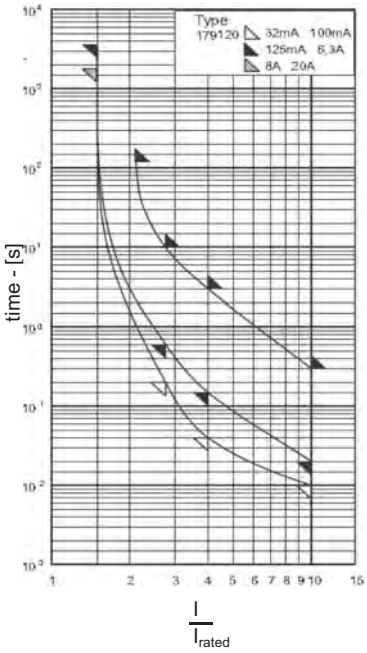
RoHS

| Rated Voltage [Un] | Rated Breaking Test Voltage | Rated Breaking Test Capacity | Class | Standard(s) |
|---|---|---|---|---|
| 250V$_{AC}$ | 250V$_{AC}$ | 35A / 10I$_{rat}$ | T | IEC 60127-2/3<br>EN 60127-2/3<br>VDE 0820 - 2/3 |

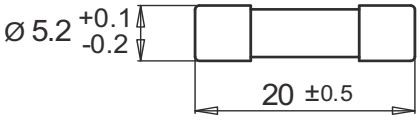
5mmx20mm - Glass Tube, Contacts - Brass, Nickel Plated

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

**Time-Current Characteristics**




| 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$_n$ | | 2.1I$_n$ | | 2.75I$_n$ | | 4I$_n$ | | 10I$_n$ | |
| | 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 - 20A | 30m | – | – | 2m | 600ms | 10s | 150ms | 3s | 20ms | 300ms |



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## G

RoHS

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

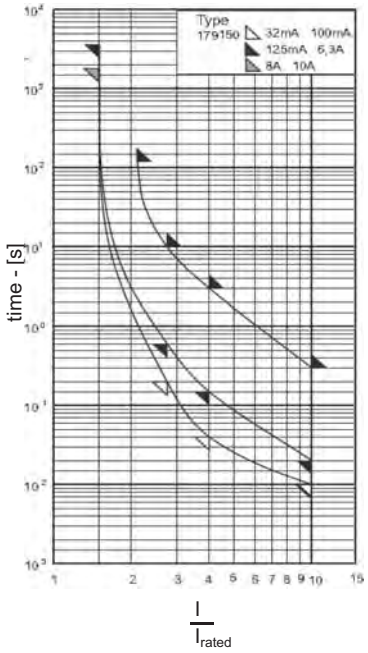
5mmx20mm - Glass Tube, Contacts - Brass, Nickel Plated

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

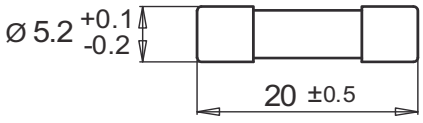
| Weight (kg per 100) |
|---|
| 0.14 |
| Units per Package |
| 10 |

IP - (1 000 pieces)
e.g. 179150.0.63IP

**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 |
| 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 |

## G

E167295

| Rated Voltage [Un] | Rated Breaking Test Voltage | Rated Breaking Test Capacity | Class | Standard(s) |
|---|---|---|---|---|
| 250V$_{AC}$ | 250V$_{AC}$ | 1.5kA | T | IEC 60127-2/5<br>EN 60127-2/5<br>VDE 0820 - 2/5 |

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

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

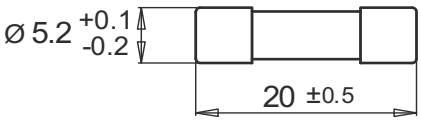
| Weight (kg per 100) [3] |
|---|
| 0.14 |
| Units per Package |
| 10 |

[3] UL Rec. 1.5kA@300V$_{DC}$, L/R = Res - 1A - 10A

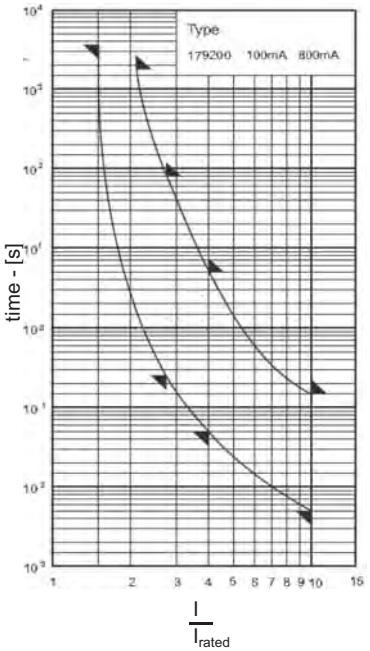
[1] cosφ = 0.7 - 0.8

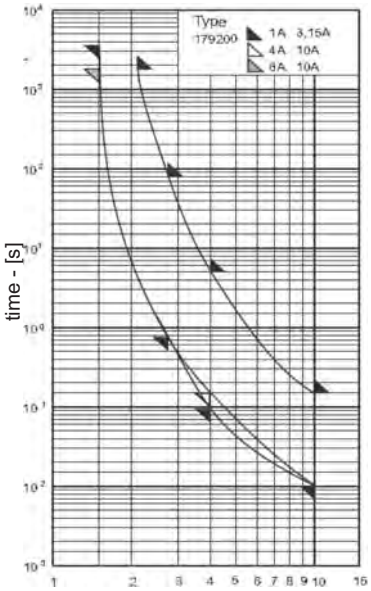
FC - 1 000 pieces with color code
AK - with assembled leaded caps
IP - (1 000 pieces)
e.g. 179200.3.15IP

Dimensions [mm]




**Time-Current Characteristics**




| Rated Current | Fusing Time Limits | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1.5$I_n$ | | 2.1$I_n$ | | 2.75$I_n$ | | 4$I_n$ | | 10$I_n$ | |
| | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| 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

E167295

RoHS

| Rated Voltage [Un] | Rated Breaking Test Voltage | Rated Breaking Test Capacity | Class | Standard(s) |
|---|---|---|---|---|
| 250V$_{AC}$ | 250V$_{AC}$ | 35A | T | IEC 60127-2/5<br>EN 60127-2/5<br>VDE 0820 - 2/5 |

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

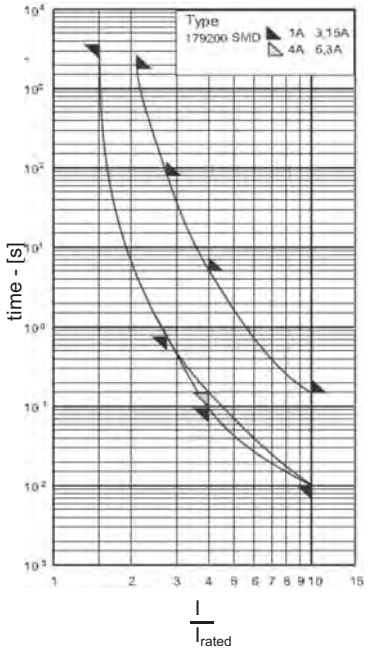
| Rated Current $I_n$ [A] | Article Number | *UL* rec | Rated Breaking Current [A] | Voltage Drop [mV] | Power Dissipation @ 1.5$I_n$ [W] | Pre-arcing $I^2t$ [A$^2$s] |
|---|---|---|---|---|---|---|
| 1 | 179200.1SMD | ✓ | 1.5kA @ 250V$_{AC}$ [1] | 250 | 0.8 | 1.5 |
| 1.25 | 179200.1.25SMD | ✓ | 1.5kA @ 250V$_{AC}$ [1] | 200 | 0.8 | 3.1 |
| 1.6 | 179200.1.6SMD | ✓ | 1.5kA @ 250V$_{AC}$ [1] | 150 | 0.8 | 6.1 |
| 2 | 179200.2SMD | ✓ | 1.5kA @ 250V$_{AC}$ [1] | 130 | 0.8 | 5.2 |
| 2.5 | 179200.2.5SMD | ✓ | 1.5kA @ 250V$_{AC}$ [1] | 110 | 0.9 | 10 |
| 3.15 | 179200.3.15SMD | ✓ | 1.5kA @ 250V$_{AC}$ [1] | 100 | 1.0 | 20 |
| 4 | 179200.4SMD | ✓ | 1.5kA @ 250V$_{AC}$ [1] | 90 | 1.1 | 37 |
| 5 | 179200.5SMD | ✓ | 1.5kA @ 250V$_{AC}$ [1] | 90 | 1.3 | 72 |
| 6.3 | 179200.6.3SMD | ✓ | 1.5kA @ 250V$_{AC}$ [1] | 90 | 1.6 | 130 |

Weight (kg per 100)

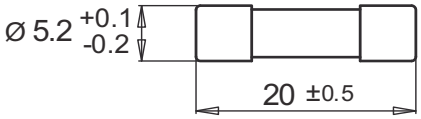
Units per Package

[1] cosφ = 0.7 - 0.8

**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 |

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FUSES

**G** | RoHS | **Rated Voltage [Un]** $250V_{AC}$ | **Rated Breaking Test** Voltage $250V_{AC}$, Capacity 300A | **Class** T | **Standard(s)** DIN 41571-3

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

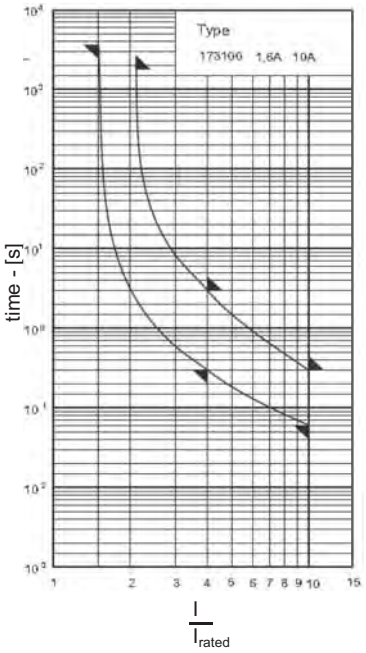
| Rated Current $I_n$ [A] | Article Number | | Rated Breaking Current [A] | Voltage Drop [mV] | Power Dissipation @ $1.5I_n$ [W] | Pre-arcing $I^2t$ [$A^2s$] | Approvals |
|---|---|---|---|---|---|---|---|
| 1.6 | 173100.1.6 | | 300A @ 250Vac | 300[1] | 0.8 | 16 | |
| 2 | 173100.2 | | 300A @ 250Vac | 190[1] | 0.9 | 26 | |
| 2.5 | 173100.2.5 | | 300A @ 250Vac | 180[1] | 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 @ $250V_{AC}$ | 100 | 2.8 | 1 150 | |
| 15 | 173100.15 | | 300A @ 250Vac | 80 | 3.3 | 1 800 | |
| 16 | 173100.16 | | 300A @ $250V_{AC}$ | 80 | 3.8 | 1 800 | |

[1] Maximum according to EN 60127-2/5

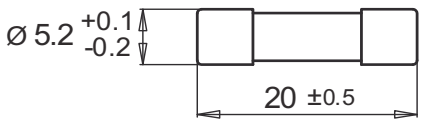
| Weight (kg per 100) |
|---|
| 0.13 |
| **Units per Package** |
| 100 |

IP - (1 000 pieces)
e.g. 173100.1.6IP

**Time-Current Characteristics**



Dimensions [mm]




| Rated Current | Fusing Time Limits | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | $1.5I_n$ | | $2.1I_n$ | | $2.75I_n$ | | $4I_n$ | | $10I_n$ | |
| | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| 1.6A - 16A | 1h | — | — | 30m | — | — | 300ms | 3s | 60ms | 300ms |

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## G

E167295

RoHS

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

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

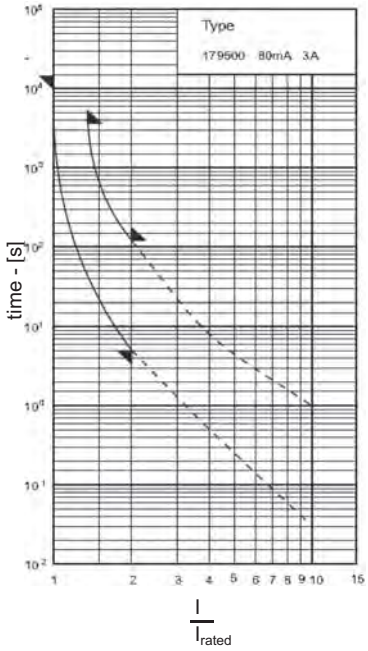
| Rated Current $I_n$ [A] | Article Number | UL | Rated Breaking Current [A] | Voltage Drop [mV] | Power Dissipation @ 1.0$I_n$ [W] | Pre-arcing $I^2t$ [$A^2s$] | Approvals |
|---|---|---|---|---|---|---|---|
| 0.080 | 179500.0.080 | ✓ | 35A @ 250$V_{AC}$ [1] | 2 800 | 0.3 | 0.024 | |
| 0.100 | 179500.0.100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

| Weight (kg per 100) |
|---|
| 0.1 |
| Units per Package |
| 10 |

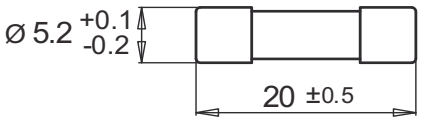
IP - (1 000 pieces)
e.g. 179500.1.6IP

[1] 10kA@125$V_{AC}$, 35A@250$V_{AC}$ - cosφ = 0.7 -0.8
[2] 10kA@125$VA_{AC}$, 100A@250$V_{AC}$ - cosφ = 0.7 -0.8

**Time-Current Characteristics**



Dimensions [mm]




| Rated Current | Fusing Time Limits | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1.0$I_n$ | | 1.35$I_n$ | | 2.0$I_n$ | | | | | |
| | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| 80mA - 3A | 4h | — | — | 1h | 5s | 120s | — | — | — | — |

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## G

RoHS

| Rated Voltage [Un] | Rated Breaking Test Voltage | Rated Breaking Test Capacity | Class | Standard(s) |
|---|---|---|---|---|
| $250V_{AC}$ | $250V_{AC}$ | 35A /10 $I_{rat}$ | TT | |

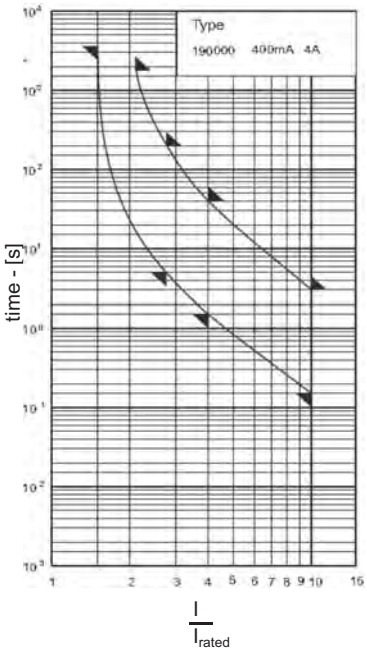
5mmx20mm - Glass Tube, Contacts - Brass, Nickel Plated

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

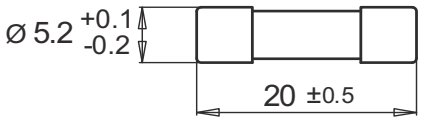
| Weight (kg per 100) |
|---|
| 0.1 |
| Units per Package |
| 10 |

IP - (1 000 pieces)
e.g. 190000.2IP

**Time-Current Characteristics**



Dimensions [mm]




| | Fusing Time Limits | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Rated Current | 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 |
| 400mA - 4A | 1h | — | — | 30m | 5s | 200s | 1.5s | 40s | 150ms | 3s |



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## G

RoHS

| Rated Voltage [Un] | Rated Breaking Test Voltage | Rated Breaking Test Capacity | Class | Standard(s) |
|---|---|---|---|---|
| $250V_{AC}$ | $250V_{AC}$ | 50A / 80A | F & M | |

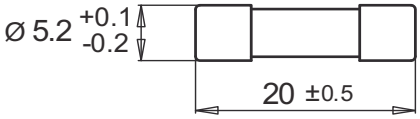
5mmx25mm - Glass Tube w/Filler, Contacts - Brass, Nickel Plated

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

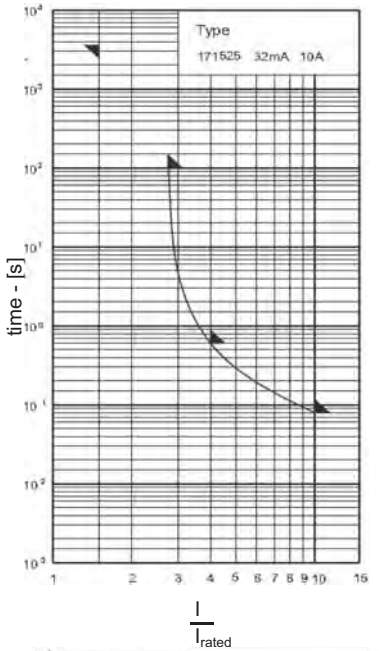
| Weight (kg per 100) | |
|---|---|
| 0.12 | 0.15 |

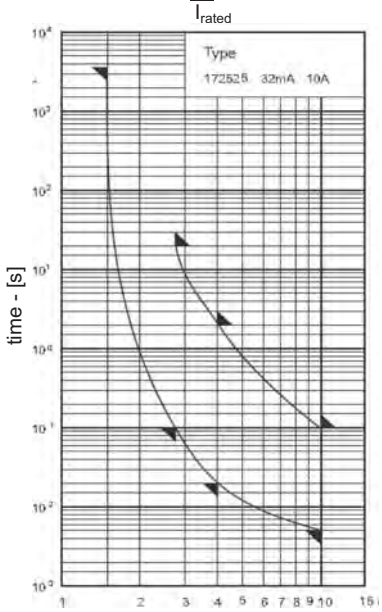
| Units per Package |
|---|
| 10 |

Dimensions [mm]




**Time-Current Characteristics**




| | Rated Current | Fusing Time Limits | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | $1.5I_n$ | | $2.1I_n$ | | $2.75I_n$ | | $4I_n$ | | $10I_n$ | |
| | | 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

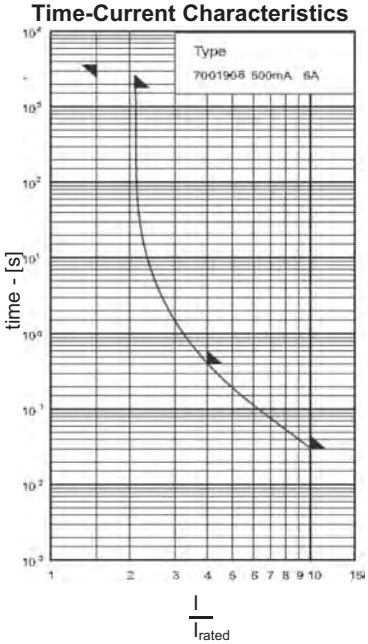
RoHS

| Rated Voltage [Un] | Rated Breaking Test Voltage | Rated Breaking Test Capacity | Class | Standard(s) |
|---|---|---|---|---|
| 60V$_{AC}$ | 60V$_{AC}$ | 1.5kA | | DIN 41572 |

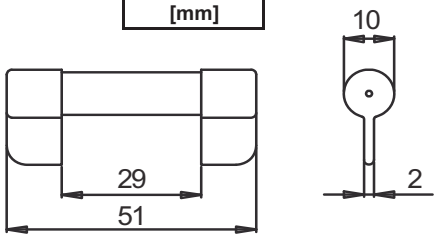
10mmx51mm - Glass Tube, Contacts - Brass, Nickel Plated

| Rated Current $I_n$ [A] | Article Number | | Rated Breaking Current [A] | Voltage Drop [mV] | Power Dissipation [W] | Pre-arcing $I^2t$ [$A^2s$] | 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 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 1.5$I_n$ | | 2.1$I_n$ | | 2.75$I_n$ | | 5$I_n$ | | 10$I_n$ | |
| | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| 500mA - 6A | 1h | — | — | 30m | — | 100s | — | 400ms | — | 30ms |

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## G

RoHS

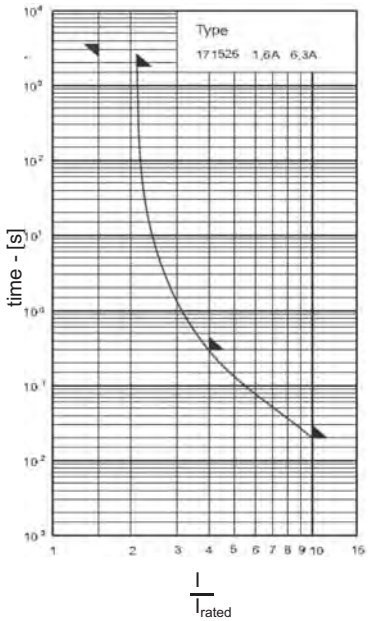
| Rated Voltage [Un] | Rated Breaking Test Voltage | Rated Breaking Test Capacity | Class | Standard(s) |
|---|---|---|---|---|
| 250V$_{AC}$ | 250V$_{AC}$ | 1.5kA | F | DIN 41576-1 |

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

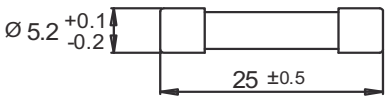
| Rated Current $I_n$ [A] | Article Number | Rated Breaking Current [A] | Voltage Drop [mV] | Power Dissipation @ 1.5$I_n$ [W] | Pre-arcing $I^2t$ [$A^2s$] | Color Code |
|---|---|---|---|---|---|---|
| 1.6 | 171526.1.6 | 1.5kA @ 250V$_{AC}$ | 640 | 0.9 | 2.3 | Orange |
| 2 | 171526.2 | 1.5kA @ 250V$_{AC}$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

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## G

RoHS

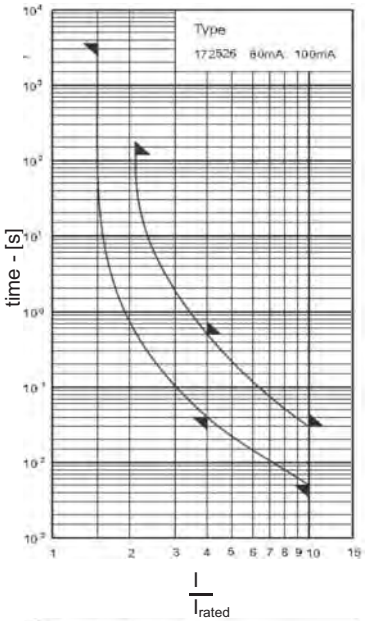
| Rated Voltage [Un] | Rated Breaking Test Voltage | Rated Breaking Test Capacity | Class | Standard(s) |
|---|---|---|---|---|
| $250V_{AC}$ | $250V_{AC}$ | 80A / 1.5kA | M | DIN 41576-2 |

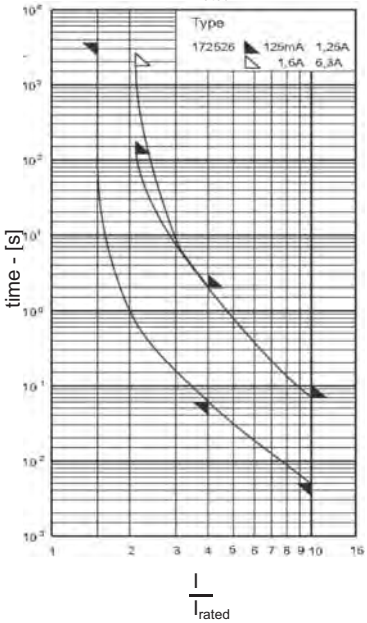
5mmx25mm - Ceramic Tube w/Filler, Contacts - Brass, Nickel Plated

| Rated Current $I_n$ [A] | Article Number | | Rated Breaking Current [A] | Voltage Drop [mV] | Power Dissipation @ $1.5I_n$ [W] | Pre-arcing $I^2t$ [$A^2s$] | Color Code |
|---|---|---|---|---|---|---|---|
| | **without filler** | | | | | | |
| 0.050 | 172526.0.050 | | 80A @ $250V_{AC}$ | 520 | 0.1 | 0.005 | White |
| 0.063 | 172526.0.063 | | 80A @ $250V_{AC}$ | 520 | 0.1 | 0.007 | Green |
| 0.080 | 172526.0.080 | | 80A @ $250V_{AC}$ | 520 | 0.1 | 0.009 | Grey |
| 0.100 | 172526.0.100 | | 80A @ $250V_{AC}$ | 500 | 0.1 | 0.022 | Red |
| 0.125 | 172526.0.125 | | 80A @ $250V_{AC}$ | 500 | 0.1 | 0.041 | Violet |
| 0.160 | 172526.0.160 | | 80A @ $250V_{AC}$ | 400 | 0.1 | 0.1 | Orange |
| 0.200 | 172526.0.200 | | 80A @ $250V_{AC}$ | 400 | 0.2 | 0.2 | Blue |
| 0.250 | 172526.0.250 | | 1.5kA @ $250V_{AC}$ | 375 | 0.2 | 0.22 | Yellow |
| 0.315 | 172526.0.315 | | 1.5kA @ $250V_{AC}$ | 410 | 0.2 | 0.31 | Black |
| 0.400 | 172526.0.400 | | 1.5kA @ $250V_{AC}$ | 280 | 0.2 | 0.56 | Brown |
| 0.500 | 172526.0.500 | | 1.5kA @ $250V_{AC}$ | 250 | 0.2 | 1.1 | White |
| 0.630 | 172526.0.630 | | 1.5kA @ $250V_{AC}$ | 220 | 0.2 | 0.7 | Green |
| 0.800 | 172526.0.800 | | 1.5kA @ $250V_{AC}$ | 400 | 0.2 | 1.6 | Grey |
| 1 | 172526.1 | | 1.5kA @ $250V_{AC}$ | 350 | 0.2 | 3.5 | Red |
| 1.25 | 172526.1.25 | | 1.5kA @ $250V_{AC}$ | 315 | 0.4 | 5.5 | Violet |
| | **with filler** | | | | | | |
| 1.6 | 172526.1.6 | | 1.5kA @ $250V_{AC}$ | 480 | 0.6 | 5 .6 | Orange |
| 2 | 172526.2 | | 1.5kA @ $250V_{AC}$ | 360 | 0.7 | 9.6 | Blue |
| 2.5 | 172526.2.5 | | 1.5kA @ $250V_{AC}$ | 300 | 0.9 | 15 | Yellow |
| 3.15 | 172526.3.15 | | 1.5kA @ $250V_{AC}$ | 250 | 1.1 | 24 | Black |
| 4 | 172526.4 | | 1.5kA @ $250V_{AC}$ | 180 | 1.3 | 40 | Brown |
| 5 | 172526.5 | | 1.5kA @ $250V_{AC}$ | 180 | 1.5 | 87 | White |
| 6.3 | 172526.6.3 | | 1.5kA @ $250V_{AC}$ | 160 | 1.8 | 170 | Green |
| 8 | 172526.8 | | 1.5kA @ $250V_{AC}$ | 150 | 3 | 190 | Grey |
| 10 | 172526.10 | | 1.5kA @ $250V_{AC}$ | 150 | 3.2 | 370 | Red |

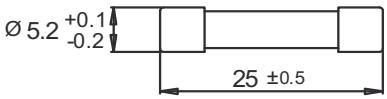
| Weight (kg per 100) |
|---|
| 0.15 |
| Units per Package |
| 10 |

**Time-Current Characteristics**



Dimensions [mm]




| Rated Current | Fusing Time Limits | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | $1.5I_n$ | | $2.1I_n$ | | $2.75I_n$ | | $5I_n$ | | $10I_n$ | |
| | 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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## G

RoHS

**Rated Voltage [Un]** 400$V_{AC}$

**Rated Breaking Test** Voltage 500$V_{AC}$ Capacity 70kA

**Class** F

**Standard(s)** Lloyds approved

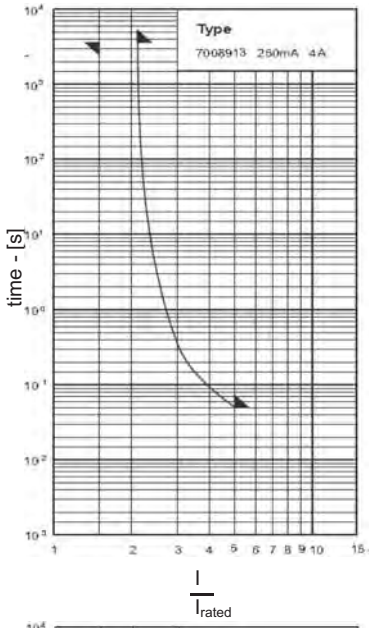
5mmx25mm - Ceramic Tube w/Indicator, Contacts - Brass, Nickel Plated

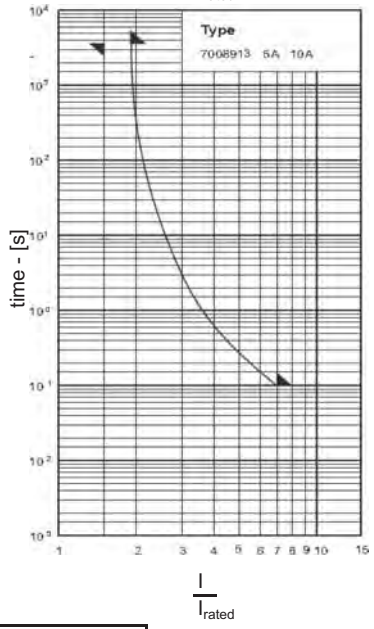
| Rated Current $I_n$ [A] | Article Number | | Rated Breaking Current [A] | Voltage Drop [mV] | Power Dissipation @ 1.5$I_n$ [W] | Pre-arcing $I^2t$ [$A^2s$] | Color Code |
|---|---|---|---|---|---|---|---|
| 0.250 | 7008913.0.250 | | 70kA @ 500$V_{AC}$[1] | 950 | 0.3 | 0.05 | Yellow |
| 0.315 | 7008913.0.315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

| Weight (kg per 100) | [1] 10kA @ 250$V_{DC}$ |
|---|---|
| 0.13 | |

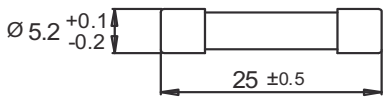
| Units per Package |
|---|
| 10 |

**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 |

SIBA
FUSES

## G

RoHS

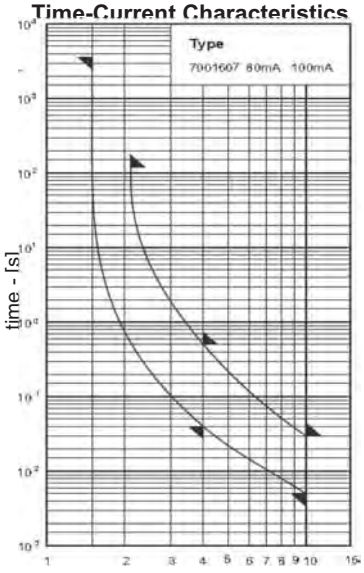
| Rated Voltage [Un] | Rated Breaking Test Voltage | Rated Breaking Test Capacity | Class | Standard(s) |
|---|---|---|---|---|
| $250V_{AC}$ | $250V_{AC}$ | 80A / 1.5kA | M | DIN 41577 T.2 |

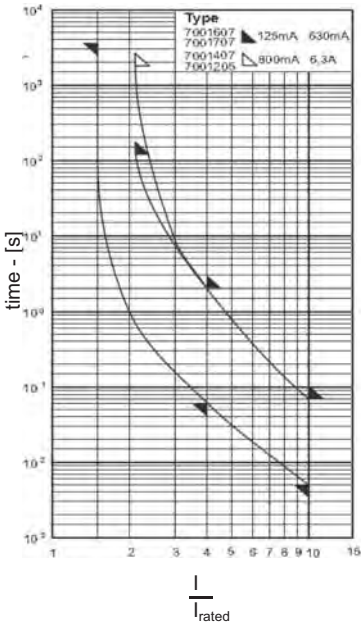
5mmx"L"mm - Ceramic Tube w/Indicator, Contacts - Brass, Nickel Plated

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

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

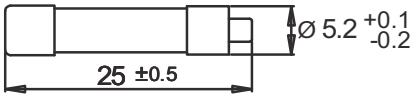
Time-Current Characteristics



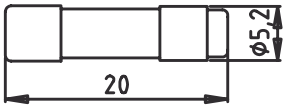




Dimensions [mm]

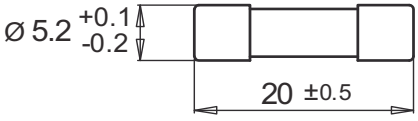
**7001607 / 7001707**




**7001407**




**7001205**




| Rated Current | Fusing Time Limits | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | $1.5I_n$ | | $2.1I_n$ | | $2.75I_n$ | | $4I_n$ | | $10I_n$ | |
| | 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

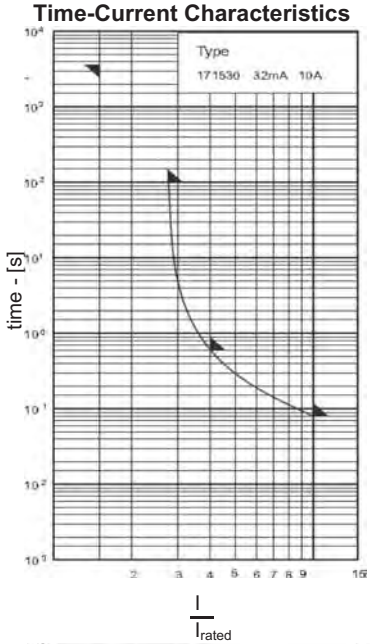
| Rated Voltage [Un] | Rated Breaking Test Voltage | Rated Breaking Test Capacity | Class | Standard(s) |
|---|---|---|---|---|
| $500V_{AC}$ | $500V_{AC}$ | 50A | F/M | |

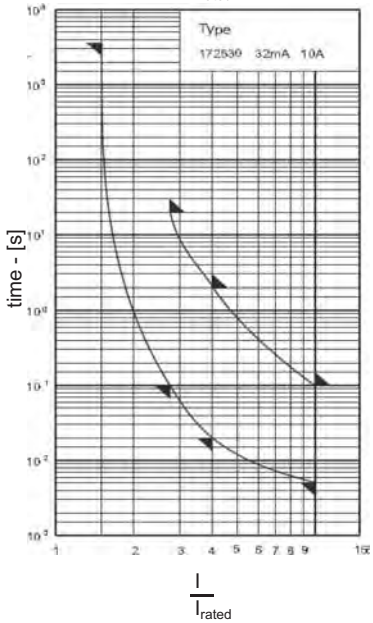
5mmx30mm - Glass Tube w/Filler, Contacts - Brass, Nickel Plated

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

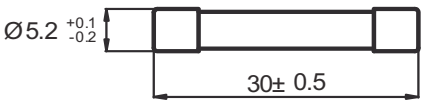
| Weight (kg per 100) |
|---|
| 0.12 |
| Units per Package |
| 10 |

**Time-Current Characteristics**



Dimensions [mm]




| | Rated Current | Fusing Time Limits | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | $1.5I_n$ | | $2.1I_n$ | | $2.75I_n$ | | $4I_n$ | | $10I_n$ | |
| | | 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 |

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## G

| Rated Voltage [Un] | Rated Breaking Test Voltage | Rated Breaking Test Capacity | Class | Standard(s) |
|---|---|---|---|---|
| 700V$_{AC}$ | 700V$_{AC}$ | 50kA | FF | |

E180276

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

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

0

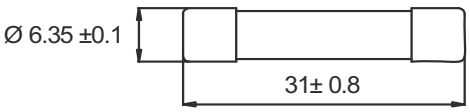
| Weight (kg per 100) |
|---|
| 0.24 |
| Units per Package |
| 10 |

IP - (1 000 pieces)
e.g. 70 125 40.16IP

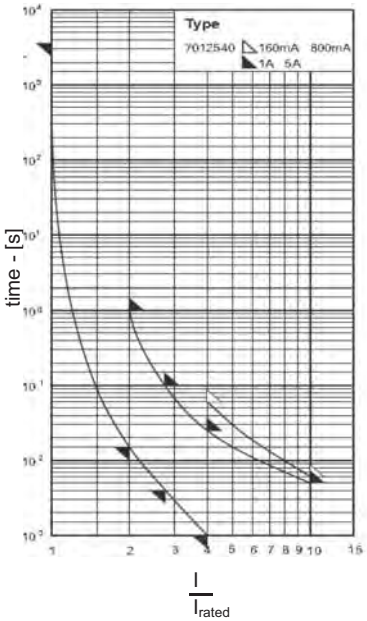
[1] 20kA @ 500V$_{DC}$

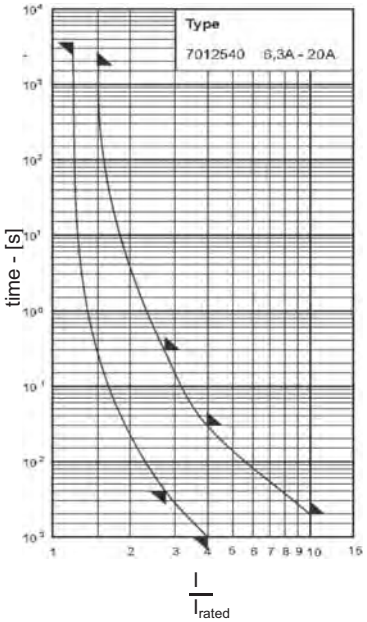
For 6.3A and higher, consideration should be given to heat dissipation

Dimensions [mm]




**Time-Current Characteristics**




| Rated Current | Fusing Time Limits | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | $1I_n$ | | $1.2I_n$ | | $2.75I_n$ | | $4I_n$ | | $10I_n$ | |
| | 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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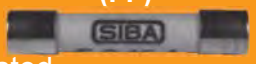
## G

E167295

RoHS

| Rated Voltage [Un] | Rated Breaking Test Voltage | Rated Breaking Test Capacity | Class | Standard(s) |
|---|---|---|---|---|
| $1000V_{AC}$ | $1000V_{AC}$ | 30kA | aR (FF) | |




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

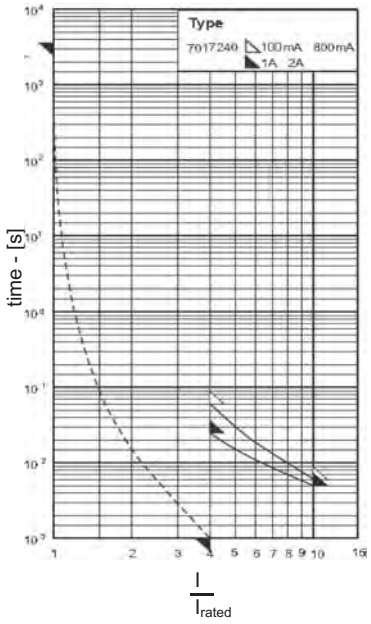
| Rated Current $I_n$ [A] | Article Number | | Rated Breaking Current [A] | Voltage Drop [mV] | Power Dissipation @ $1.0I_n$ [W] | Pre-arcing $I^2t$ [$A^2s$] |
|---|---|---|---|---|---|---|
| 0.100 | 7017240.0.100 | ✓ | 30kA @ $1000V_{AC/DC}$ | 2 500 | 0.3 | 0.0009 |
| 0.125 | 7017240.0.125 | ✓ | 30kA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

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

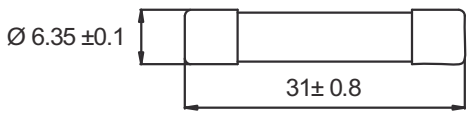
IP - (1 000 pieces)

e.g. 70 172 40.1.6IP

**Time-Current Characteristics**



Dimensions [mm]




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

SIBA
FUSES

## G

E180726

RoHS

| Rated Voltage [Un] | Rated Breaking Test Voltage | Rated Breaking Test Capacity | Class | Standard(s) |
|---|---|---|---|---|
| 400V$_{AC}$ | 400V$_{AC}$ | 120kA | gRL | IEC 60269-4<br>VDE 0636 Part4 |

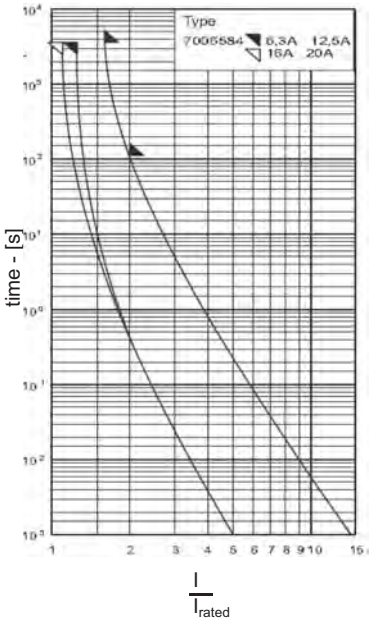
6.3mmx32mm - Ceramic Tube w/Filler, Contacts - Brass, Nickel Plated

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

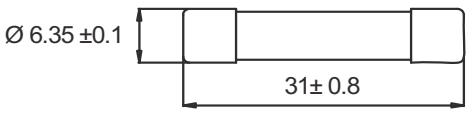
| Weight (kg per 100) |
|---|
| |
| Units per Package |
| |

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

**Time-Current Characteristics**



Dimensions [mm]




| | Fusing Time Limits | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Rated Current | 1.1$I_n$ | | 1.25$I_n$ | | 1.6$I_n$ | | 2.0$I_n$ | | | |
| | 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

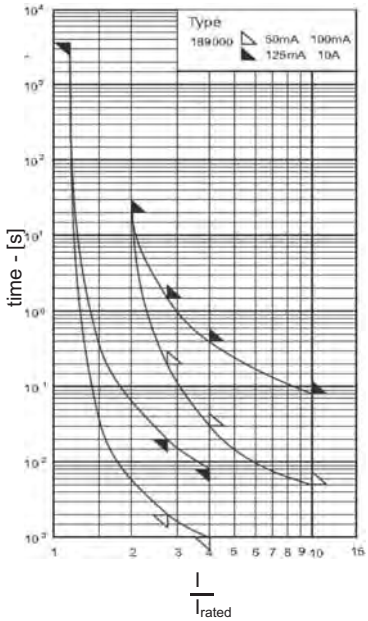
RoHS

| Rated Voltage [Un] | Rated Breaking Test Voltage | Rated Breaking Test Capacity | Class | Standard(s) |
|---|---|---|---|---|
| $250V_{AC}$ | $250V_{AC}$ | 35A | F | IEC 60269-2/4 |

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

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

**Time-Current Characteristics**

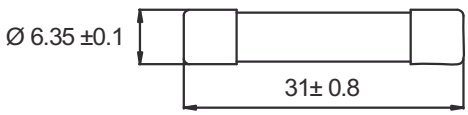



| Weight (kg per 100) |
|---|
| |
| Units per Package |
| 10 |

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

AK - with assembled leaded caps
IP - (1 000 pieces)
e.g. 189000.3.15IP

Dimensions [mm]




| Rated Current | Fusing Time Limits | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | $1.5I_n$ | | $2I_n$ | | $2.75I_n$ | | $4I_n$ | | $10I_n$ | |
| | 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

| Rated Voltage [Un] | Rated Breaking Test Voltage | Rated Breaking Test Capacity | Class | Standard(s) |
|---|---|---|---|---|
| $500V_{AC}$ | $500V_{AC}$ | 50kA | F | |
| $440V_{DC}$ | $440V_{AC}$ | 1.5kA | | |

E167295

RoHS

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

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

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

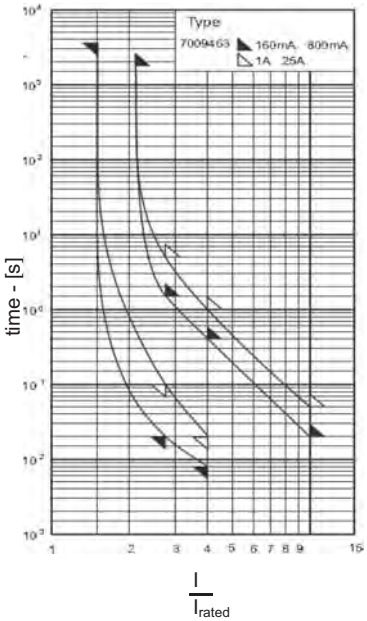
[1] cosφ = 0.3, 1.5kA @ $450V_{DC}$ , resistive

[2] cosφ = 1, 1.5kA @ $125V_{DC}$

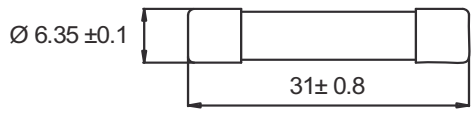
For 6.3A and higher, consideration should be given to heat dissipation

AK - with assembled leaded caps
IP - (1 000 pieces)
e.g. 189020.3.15AK

**Time-Current Characteristics**



Dimensions [mm]




**SMD version available 1A - 5A**

| | Fusing Time Limits | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Rated Current | $1.5I_n$ | | $2.1I_n$ | | $2.75I_n$ | | $4I_n$ | | $10I_n$ | |
| | 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 |

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| G | | Rated Voltage [Un] | Rated Breaking Test Voltage | Rated Breaking Test Capacity | Class | Standard(s) |
|---|---|---|---|---|---|---|
| | RoHS | 600$V_{AC}$ | 500$V_{AC}$ | 50kA | F | |

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

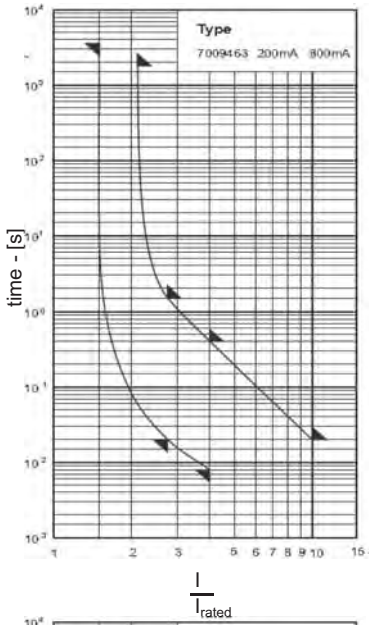
| Rated Current $I_n$ [A] | Article Number | | Rated Breaking Current [A] | Voltage Drop [mV] | Power Dissipation @ 1.5$I_n$ [w] | Pre-arcing $I^2t$ [$A^2s$] |
|---|---|---|---|---|---|---|
| 0.200 | 7009463.0.200 | | 50kA @ 600$V_{AC}$ | 6 500 | 2.9 | 0.0035 |
| 0.400 | 7009463.0.400 | | 50kA @ 600$V_{AC}$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

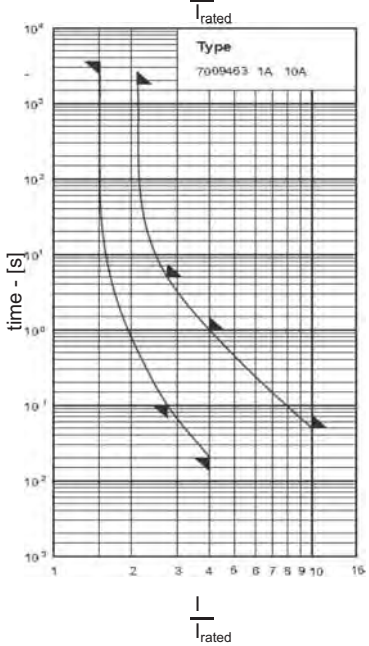
| Weight (kg per 100) |
|---|
| 0.12 |
| Units per Package |
| 10 |

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

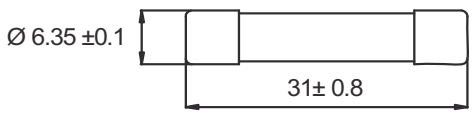
AK - with assembled leaded caps
IP - (1 000 pieces)
e.g. 70 094 63.10IP

**Time-Current Characteristics**



Dimensions [mm]




| 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

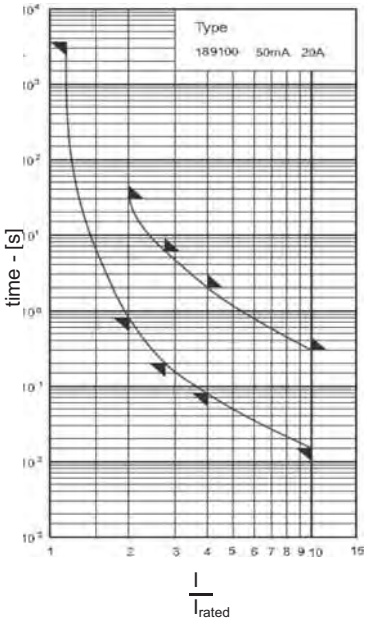
RoHS

| Rated Voltage [Un] | Rated Breaking Test Voltage | Rated Breaking Test Capacity | Class | Standard(s) |
|---|---|---|---|---|
| $250V_{AC}$ | $250V_{AC}$ | 35A | T | |

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

| Rated Current $I_n$ [A] | Article Number | | Rated Breaking Current [A] | Voltage Drop [mV] | Power Dissipation @ $1.5I_n$ [W] | Pre-arcing $I^2t$ [$A^2s$] |
|---|---|---|---|---|---|---|
| 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**

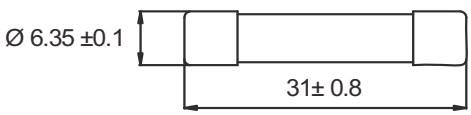



| Weight (kg per 100) |
|---|
| |
| Units per Package |
| 10 |

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

AK - with assembled leaded caps
IP - (1 000 pieces)
e.g. 189100.2IP

Dimensions [mm]




| | Fusing Time Limits | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Rated Current | $1.5I_n$ | | $2I_n$ | | $2.75I_n$ | | $4I_n$ | | $10I_n$ | |
| | 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

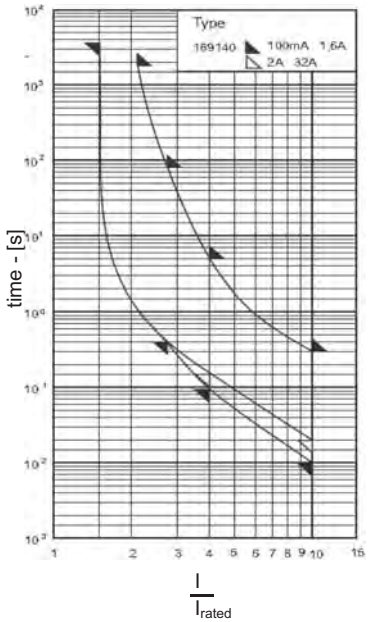
| Rated Voltage [Un] | Rated Breaking Test Voltage | Rated Breaking Test Capacity | Class T | Standard(s) |
|---|---|---|---|---|
| $500V_{AC}$ - $250V_{AC}$ | $500V_{AC}$ | 1.5kA | | |
| $400V_{DC}$ | $400V_{DC}$ | 1.5kA | | |

E167295 & E180276

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

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

**Time-Current Characteristics**




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

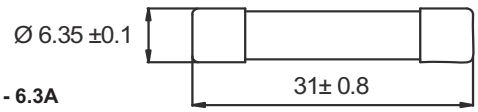
[1] cosφ=1, 10kA @440$V_{AC}$ cosφ=0.3, 1.5kA @ 400$V_{DC}$ without approval

[2] cosφ=1, 10kA @ 440$V_{AC}$ cosφ=0.3, 1.5kA @ 400$V_{DC}$ - **UL Recognized**

[3] cosφ=1, 1.5kA @ 300$V_{DC}$ without approval

AK - with assembled leaded caps
IP - (1 000 pieces)
e.g. 189140.1.6IP

Dimensions [mm]




**SMD version also available 1A - 6.3A**

| | Fusing Time Limits | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Rated Current | $1.5I_n$ | | $2I_n$ | | $2.75I_n$ | | $4I_n$ | | $10I_n$ | |
| | 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 |

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## G

RoHS

| Rated Voltage [Un] | Rated Breaking Test Voltage | Rated Breaking Test Capacity | Class T/D | Standard(s) |
|---|---|---|---|---|
| $250V_{AC}$ | $250V_{AC}$ | 100A | | UL 248-14 |
| $125V_{AC}$ | $125V_{AC}$ | 10kA | | CSA C22.s |
| | | | | No. 248-14 |

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

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

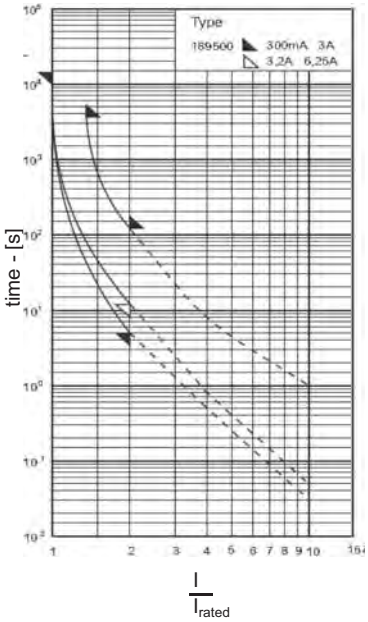
| Weight (kg per 100) |
|---|
| |
| Units per Package |
| 10 |

[1] 10kA@$125V_{AC}$, 100A@$250V_{AC}$ - cosφ = 0.7 - 0.8

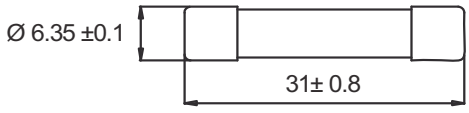
[2] 10kA@$125V_{AC}$, cosφ = 0.7 - 0.8

AK - with assembled leaded caps
IP - (1 000 pieces)
e.g. 189500.1.25IP

**Time-Current Characteristics**



Dimensions [mm]




| | Fusing Time Limits | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Rated Current | $1I_n$ | | $1.35I_n$ | | $2I_n$ | | | | | |
| | 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 [Un] | Rated Breaking Test Voltage | Rated Breaking Test Capacity | Class | Standard(s) Following |
|---|---|---|---|---|---|---|
| | RoHS | 400V$_{AC}$ | 400V$_{AC}$ | 30kA | gPV | IEC 60269-4 |

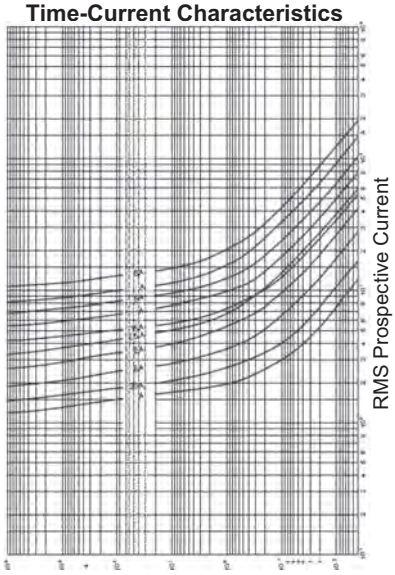
## 6.3mmx32mm - Ceramic Tube w/Filler, Contacts - Brass, Nickel Plated

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

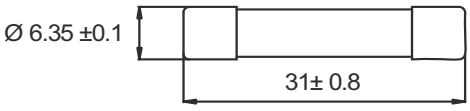
| Weight (kg per 100) |
|---|
| |
| Units per Package |
| 10 |

AK - with assembled leaded caps
IP - (1 000 pieces)
e.g. 70 065 26.10IP

**Time-Current Characteristics**



Dimensions [mm]




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

## G

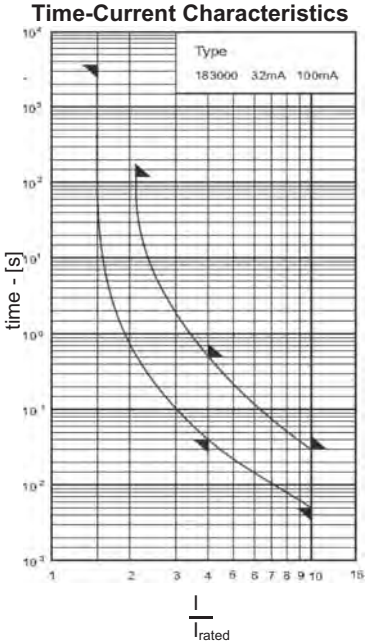
RoHS

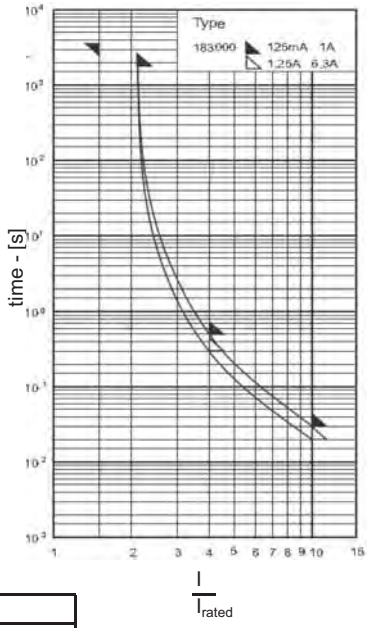
| Rated Voltage [Un] | Rated Breaking Test Voltage | Rated Breaking Test Capacity | Class M/F | Standard(s) |
|---|---|---|---|---|
| $500V_{AC}$ | $500V_{AC}$ | 50A | | DIN 41686 |

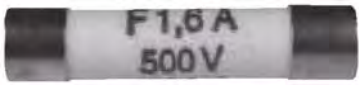
8mmx40mm - Glass Tube(M), Ceramic Tube(F), Contacts - Brass, Nickel Plated

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

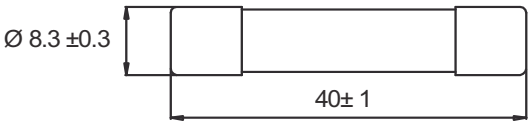
**Time-Current Characteristics**




Dimensions [mm]




| Rated Current | Fusing Time Limits | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | $1.5I_n$ | | $2.1I_n$ | | $2.75I_n$ | | $4I_n$ | | $10I_n$ | |
| | 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 |

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## G

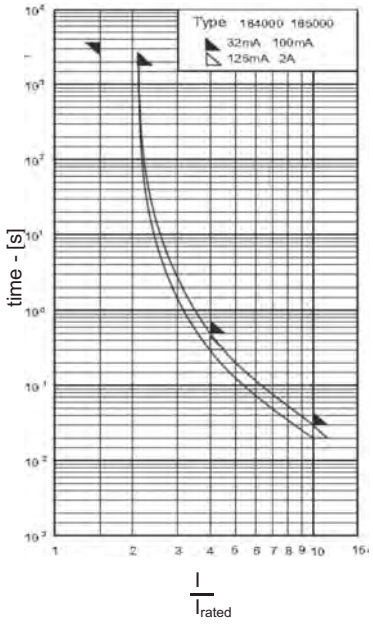
RoHS

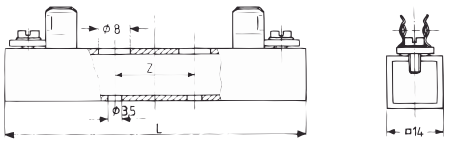
8mmx50mm -
8mmx85mm - Ceramic Tube, Contacts - Brass, Nickel Plated

| Rated Voltage [Un] | Rated Breaking Test Voltage | Rated Breaking Test Capacity | Class M/F | Standard(s) |
|---|---|---|---|---|
| $1.2kV_{AC}$ | 1.2kVAC | 35A | | DIN 41570 |
| $3kV_{AC}$ | $3kV_{AC}$ | 35A | | DIN 41569 |

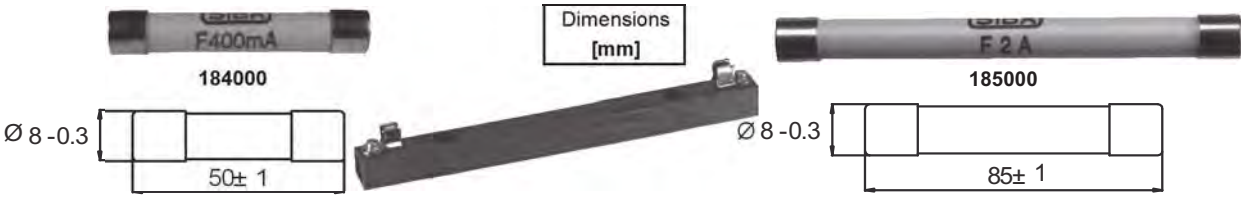
| Rated Current $I_n$ [A] | Article Number | | Article Number | | Rated Breaking Current [A] | Voltage Drop Maximum [mV] | Voltage Drop Maximum [mV] |
|---|---|---|---|---|---|---|---|
| | M | | | | | 184000 | 185000 |
| 0.032 | 184000.0.032 | | 185000.0.032 | | | 2 300 | 4 500 |
| 0.050 | 184000.0.050 | | 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 | | 184000 | 8 000 | 14 000 |
| 0.200 | 184000.0.200 | | 185000.0.200 | | 35A | 7 000 | 12 000 |
| 0.250 | 184000.0.250 | | 185000.0.250 | | @ | 6 000 | 10 500 |
| 0.315 | 184000.0.315 | | 185000.0.315 | | $1.2kV_{AC}$ | 5 000 | 9 000 |
| 0.400 | 184000.0.400 | | 185000.0.400 | | | 2 000 | 3 500 |
| 0.500 | 184000.0.500 | | 185000.0.500 | | 185000 | 950 | 1 600 |
| 0.630 | 184000.0.630 | | 185000.0.630 | | 35A | 860 | 1 500 |
| 0.800 | 184000.0.800 | | 185000.0.800 | | @ | 760 | 1 300 |
| 1 | 184000.1 | | 185000.1 | | $3kV_{AC}$ | 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 | | | | |
| 3.15 | 184000.3.15 | | 185000.3.15 | | | On Request | |
| 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 | | | | |
| | | | | | | | |

### Time-Current Characteristics




| Fuse Base Article No. | Fuse | Rated Voltage | Dimensions [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 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1.5$I_n$ | | 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 | — | — | — | 500ms | — | 30ms |
| 184000 | 125mA - 6.3A | 1h | — | — | 30m | — | — | — | 300ms | — | 20ms |
| 185000 | 125mA - 4A | 1h | — | — | 30m | — | — | — | 300ms | — | 20ms |

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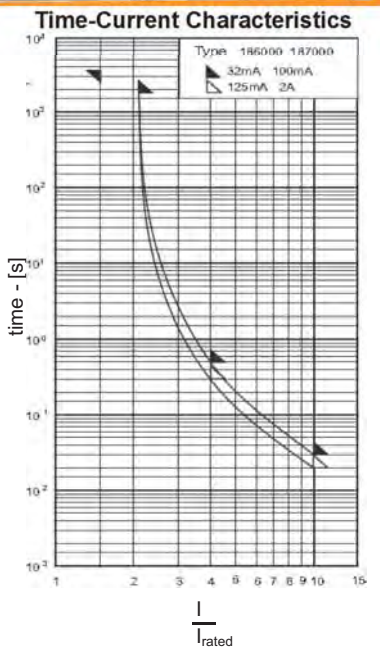
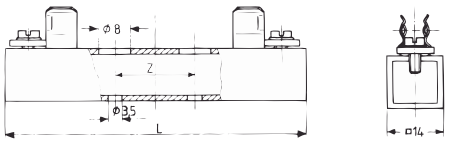
| G | | Rated Voltage [Un] | Rated Breaking Test Voltage | Rated Breaking Test Capacity | Class M/F | Standard(s) |
|---|---|---|---|---|---|---|
| RoHS | | $6kV_{AC}$ | $6kV_{AC}$ | 35A | | DIN 41683 |
| 8mmx120mm - | | $10kV_{AC}$ | $10kV_{AC}$ | 35A | | DIN 41684 |
| 8mmx150mm - Ceramic Tube, Contacts - Brass, Nickel Plated | | | | | | |

| Rated Current $I_n$ [A] | Article Number | | Article Number | | Rated Breaking Current [A] | Voltage Drop Maximum [mV] | Voltage Drop Maximum [mV] |
|---|---|---|---|---|---|---|---|
| | M | | | | | 186000 | 187000 |
| 0.032 | 186000.0.032 | | 187000.0.032 | | | 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 | | | 22 000 | 27 000 |
| 0.160 | 186000.0.160 | | 187000.0.160 | | 186000 | 19 000 | 24 000 |
| 0.200 | 186000.0.200 | | 187000.0.200 | | 35A | 16 000 | 21 000 |
| 0.250 | 186000.0.250 | | 187000.0.250 | | @ | 14 000 | 18 500 |
| 0.315 | 186000.0.315 | | 187000.0.315 | | $6kV_{AC}$ | 12 000 | 17 000 |
| 0.400 | 186000.0.400 | | 187000.0.400 | | | 5 000 | 6 000 |
| 0.500 | 186000.0.500 | | 187000.0.500 | | 187000 | 2 300 | 2 900 |
| 0.630 | 186000.0.630 | | 187000.0.630 | | 35A | 2 000 | 2 700 |
| 0.800 | 186000.0.800 | | 187000.0.800 | | @ | 1 900 | 2 400 |
| 1 | 186000.1 | | 187000.1 | | $10kV_{AC}$ | 1 800 | 2 100 |
| 1.25 | 186000.1.25 | | 187000.1.25 | | | 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 | | | | | On Request | |
| 3.15 | 186000.3.15 | | | | | | |
| 4 | 186000.4 | | | | | | |
| | Weight (kg per 100) | | Weight (kg per 100) | | | | |
| | | | | | | | |
| | Units per Package | | Units per Package | | | | |
| | | | | | | | |



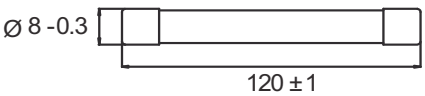



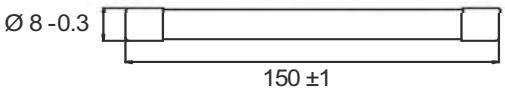

| Fuse Base Article No. | Fuse | Rated Voltage | Dimensions [mm] | | Rated Current | Rated Power |
|---|---|---|---|---|---|---|
| | | | L | Z | A | W |
| **71 040 01** | **186000** | 6kV | 145 | 80 | 4 | 4 |
| **71 043 01** | **187000** | 10kV | 175 | 100 | 2 | 4 |

**186000**

Dimensions [mm]

**187000**




| | Rated Current | Fusing Time Limits | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | $1.5I_n$ | | $2.1I_n$ | | $2.75I_n$ | | $4I_n$ | | $10I_n$ | |
| | | 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 |

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RoHS

## Miniature G High Voltage Fuses

Standard(s)
Company

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

| Article Number | Votage Rating | Dimensions | Current Ratings | Class | Breaking Capaciy |
|---|---|---|---|---|---|
| **7011509** | $3kV_{AC}$ | 10mmx85mm | 0.125A - 4A | F | 150A |
| **7011527** | $1.5kV_{AC}/1kV_{DC}$ | 10mmx85mm | 0.63A - 12.5A | T | $/10kA_{DC}$ |
| **7011552** | $1.5kV_{AC}/1kV_{DC}$ | 10mmx85mm | 1A - 20A | F | $1.5kA_{AC}/300A_{DC}$ |
| **7012927** | $1kV_{AC}$ | 11mmx79mm | 2A - 16A | T | 15kA |
| **7012952** | $1kV_{AC}$ | 11mmx79mm | 1A - 12A | F | 15kA |
| **7017182** | $1kV_{AC}$ | 10mmx85mm | 2A - 16A | aM | 25kA |
| **7002924** | $3kV_{AC}$ | 12mmx100mm | 0.5A - 10A | F | 300A |
| **7002927** | $3kV_{AC}$ | 12mmx100mm | 2,5A - 6.3A | T | 300A |
| **7003024** | $6kV_{AC}$ | 12mmx150mm | 0.5A - 4A | F | 300A |
| **7003124** | $10kV_{AC}$ | 12mmx200mm | 0.5A - 2A | F | 300A |

**71 037 02**

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

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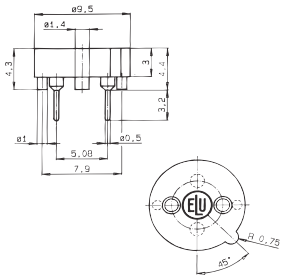
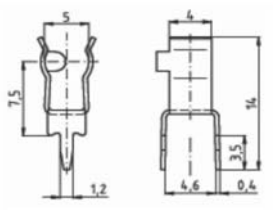
## Fuse Holders for Sub-miniature Fuses 8.4mm x 7.6mm with short leads

**166602**

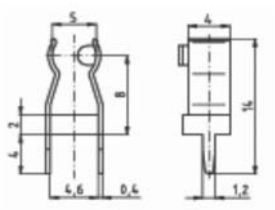


| | |
|---|---|
| rated current | 6.3 A |
| mounting | printed circuit board |
| pin distance | 5.08 mm |
| hole | Ø 1 mm |

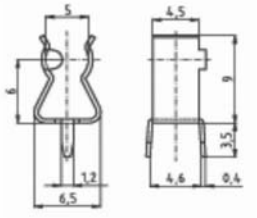
## Fuse clips for miniature Fuse Links with 5mm & 6.3mm cap Ø



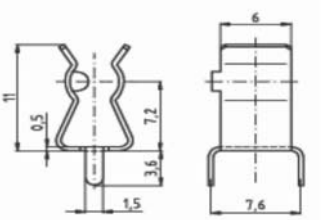
**199073**



**199207**



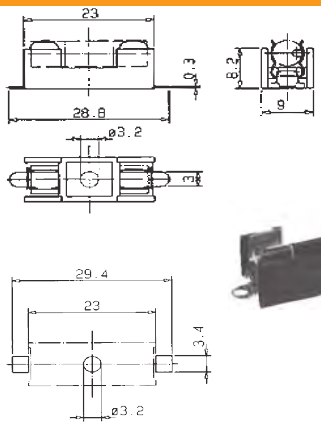
**199487**



**199429**

| For Ø 5 mm | | | For or Ø 6.3 mm |
|---|---|---|---|
| | rated current | 6.3A, Ø 5 mm<br>10A, Ø 6.3 mm | |
| | mounting | printed circuit board | |
| | material | brass, tinned | |
| | connections | solderable | |

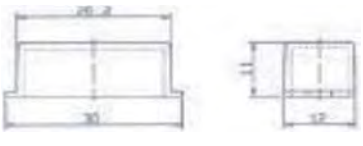
## Fuse Holders (Fuse Blocks) for miniature Fuse Links 5mm x 20mm



**199011**

| | |
|---|---|
| rated voltage | 250 $V_{AC}$, 300$V_{DC}$ |
| rated current | 6,3 A |
| rated power | 1,6 W |
| mounting | printed circuit board, screw or rivet |
| connections | solder |
| approvals VDE | |

Cover



**199012**

PCB mounting pattern

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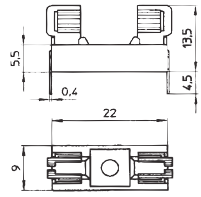
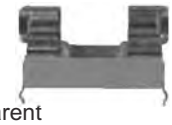
## Fuse Holders (Fuse Blocks) for miniature Fuse Links 5mm x 20mm

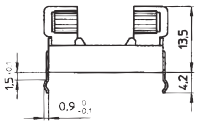


**199015**

approvals UL(rec), VDE

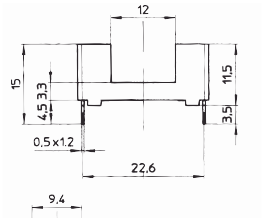
| | |
|---|---|
| rated voltage | 250 $V_{AC}$ |
| rated current | 6,3 A |
| rated power | 1,6 W |
| mounting | printed circuit board, screw or rivet |
| pin distance | 22.5 mm |
| hole | Ø 1.5 mm |
| connections | solder |
| cover 199016 | thermoplastic. transparent |





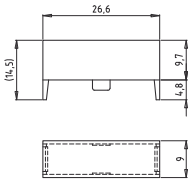

**199015A**

approvals UL(rec), VDE



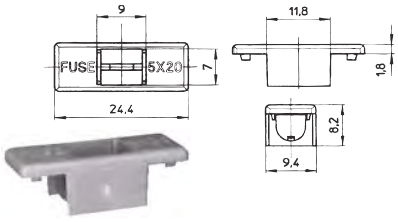
**199018**

approvals UL(rec), VDE

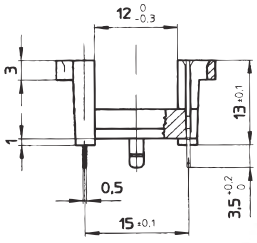


**199016**

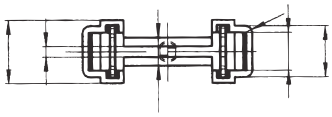
| | |
|---|---|
| rated voltage | 250 $V_{AC}$ |
| rated current | 6,3 A |
| rated power | 1,6 W |
| mounting | printed circuit board |
| pin distance | 22.5 mm |
| hole | Ø 1.5 mm |
| connections | solder |
| cover 199016 | thermoplastic. Green |

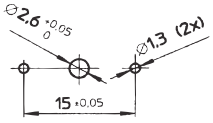



**199019**



**199060**

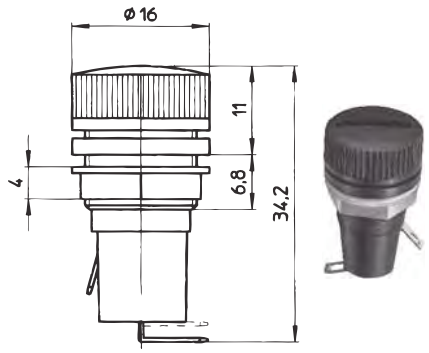





| | |
|---|---|
| rated voltage | 250 $V_{AC}$ |
| rated current | 6,3 A |
| rated power | 1,6 W |
| mounting | printed circuit board |
| pin distance | 15 mm |
| hole | Ø 1.3 mm / 2.6mm |
| connections | solder |

## G

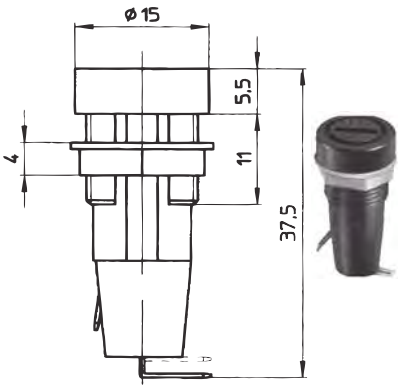
## Fuse Holders (Fuse Blocks) for miniature Fuse Links 5mm x 20mm




**199030**

approvals UL(rec), VDE

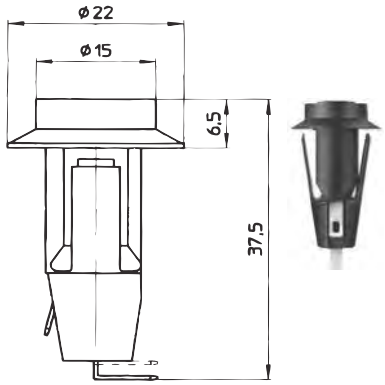
| | |
|---|---|
| mounting | panel |
| hole | 13mm |
| locating lug | |
| locknut | SW14 |
| fuse carrier | screw cap |
| connections | 2.8mm plug connector or solderable |




**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 |

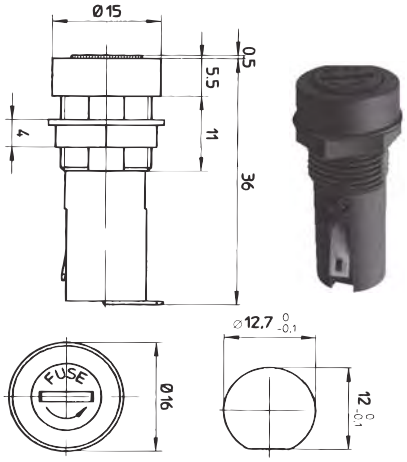



**199040**

approvals UL(rec), VDE

| | |
|---|---|
| mounting | panel |
| hole | 12.7mm |
| locating lug | |
| locknut | SW14 |
| fuse carrier | screw cap |
| connections | 2.8mm plug connector or solderable |

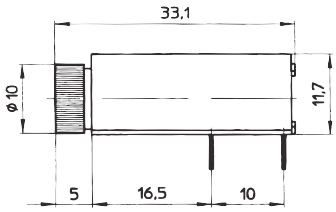
| | |
|---|---|
| rated voltage | 250 V |
| rated current | 6.3 A |
| rated power | 2.5 W |
| dielectric strength | 3 kV |
| protection standard | IP 40 |
| shock safe category | PC2 |




**199055**

| | |
|---|---|
| mounting | panel |
| hole | 12.7mm |
| locating lug | |
| locknut | SW14 |
| fuse carrier | bayonet cap |
| connections | solder |

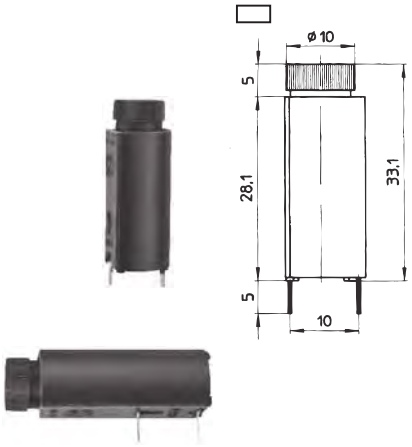
approvals UL(rec), VDE




**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



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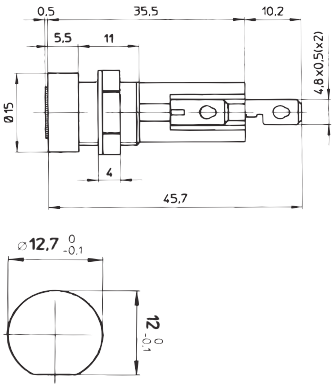
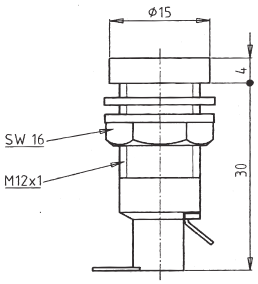
## Fuse Holders (Fuse Blocks) for miniature Fuse Links 5mm x 20mm

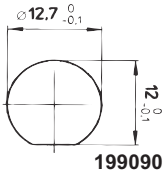


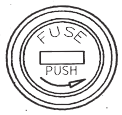
**199070**

| | |
|---|---|
| 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



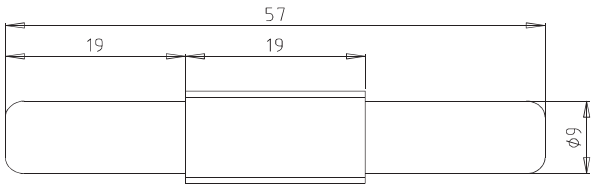




**199090**

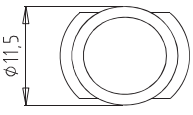
| | |
|---|---|
| rated voltage | 250 V |
| rated current | 6.3 VDE / 10A UL/CSA |
| rated power | |
| dielectric strength | 3 kV |
| protection standard | IP 40 |
| shock safe category | PC2 |
| mounting | panel |
| hole | 12.7mm |
| locating lug | |
| locknut | SW16 |
| fuse carrier | bayonet cap |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

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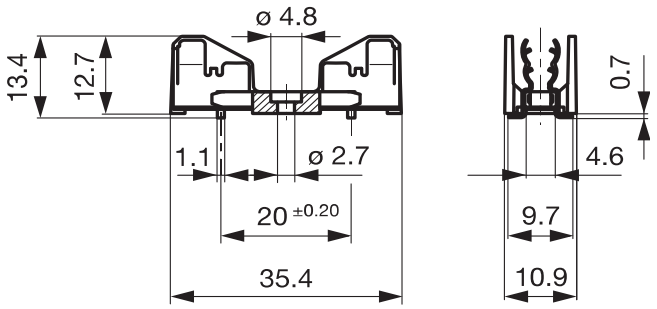
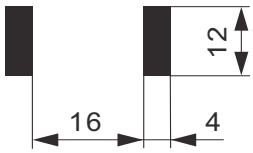
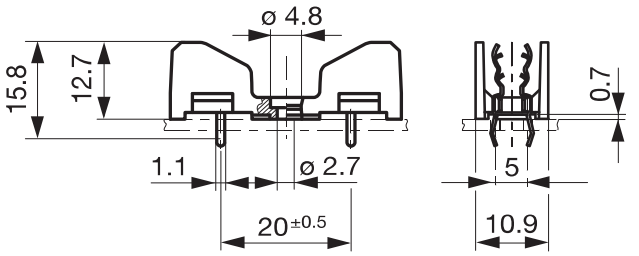
## Fuse Holders (Fuse Blocks) for miniature Fuse Links 5mm x 20mm / 6.3mm x 32mm

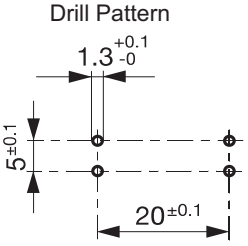


**199511**

| | |
|---|---|
| rated voltage | 500V (VDE) / 600$V_{AC/DC}$(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 |



**199537**

| | |
|---|---|
| rated voltage | 500V (VDE) / 600$V_{AC/DC}$(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 |



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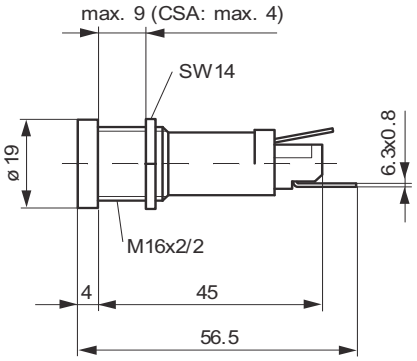
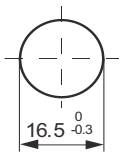
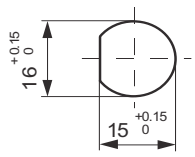
G

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

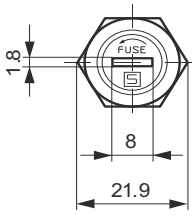



Hole Pattern



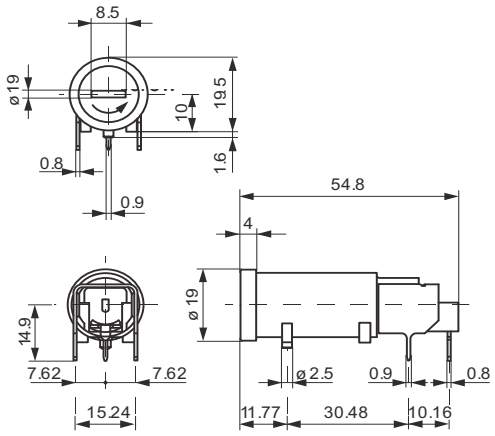
**199531**



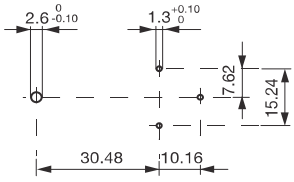
**199530**

| | |
|---|---|
| rated voltage | 500V (VDE) / 600$V_{AC/DC}$(UL/CSA) |
| rated current | 10A (VDE) / 20A (UL/CSA) |
| rated power | 4 W @ 10A |
| dielectric strength | 3 kV |
| protection standard | IP 40 |
| shock safe category | PC2 |
| mounting | panel |
| hole | 16.5mm |
| locating lug | |
| locknut | |
| fuse carrier | bayonet cap |
| connections | 6.3x0.8mm plug connector |

Approvals UL(rec), VDE




| | |
|---|---|
| rated voltage | 500V (VDE) / 600$V_{AC/DC}$(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 | PCB |
| fuse carrier | screw cap |
| connections | solderable THT |



**199552**

**199550**

approvals UL(rec), VDE

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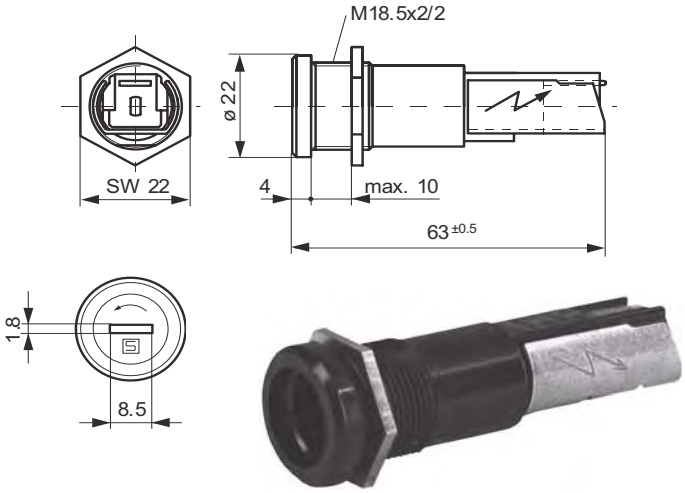
G

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

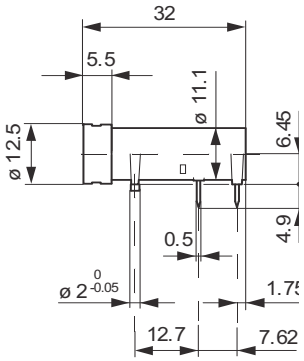



**199555**

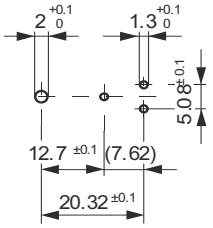
approvals UL(rec), VDE

| | |
|---|---|
| rated voltage | 500V (VDE) / 600$V_{AC/DC}$(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**

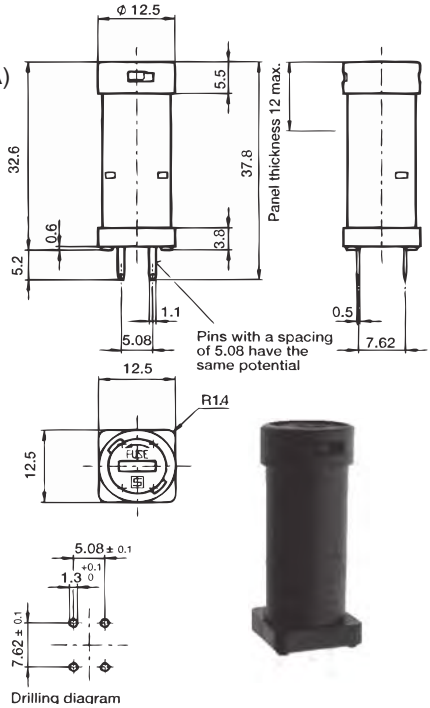



| | |
|---|---|
| rated voltage | 250$V_{AC}$ |
| rated current | 10A (VDE) / 16A (UL/CSA) |
| rated power | 2.5 W @ 10A |
| dielectric strength | 3 kV |
| protection standard | IP 40 |
| shock safe category | PC2 |
| mounting | PCB |
| pin distance | 7.62x5.08mm |
| via hole | Ø 1.3 +0.1 mm |
| fuse carrier | bayonet cap |
| connections | solder |



**7100127**

approvals UL(rec), VDE




**7100128**

approvals UL(rec), VDE



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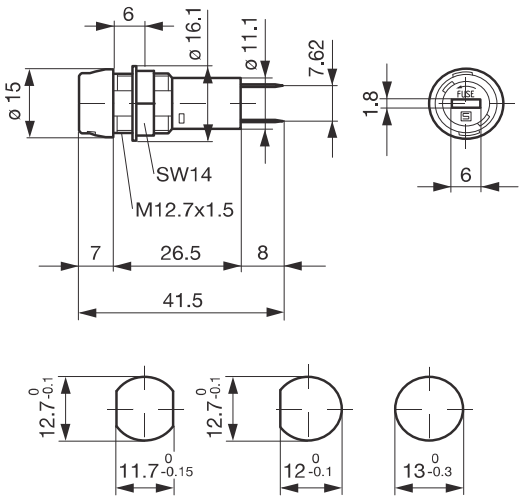
## G

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

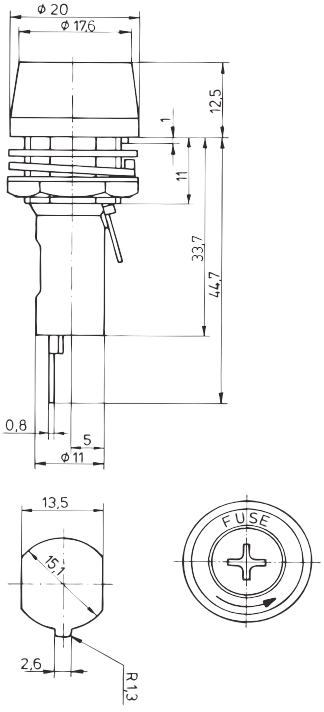


| | |
|---|---|
| rated voltage | 250 $V_{AC}$ |
| rated current | 10 VDE / 16A UL/CSA |
| rated power | 2.5 W @ 10A |
| dielectric strength | 3 kV |
| protection standard | IP 40 |
| shock safe category | PC2 |
| mounting | panel |
| hole | 13mm |
| distortion protection | |
| locknut | M12.7x1.5 |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

**7100129**

approvals UL(rec), VDE

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



| | |
|---|---|
| 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 |

**199052**

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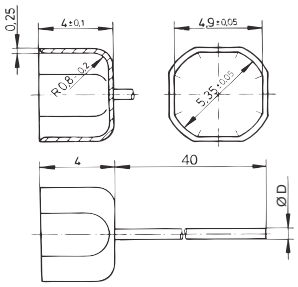
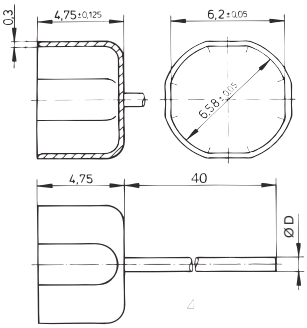
RoHS

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

Ø 5mm



Ø 6.3mm

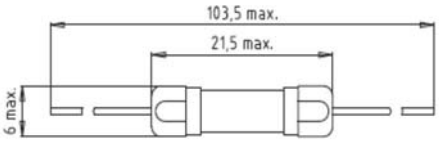


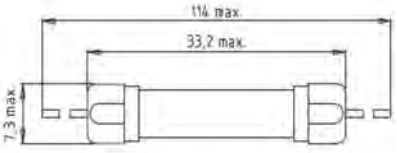

**Ø 5mm**

| | | |
|---|---|---|
| **204000** | Max 6.3A | D=0.65mm |
| **204001** | Max 10A | D=0.8mm |
| **204002** | Max 16A | D=1mm |

**Ø 6.3mm**

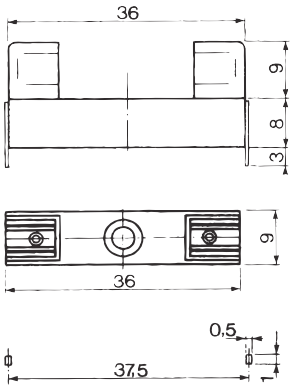
| | | |
|---|---|---|
| **204100** | Max 12.5A | D=0.8mm |
| **204101** | Max 20A | D=1mm |




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 |

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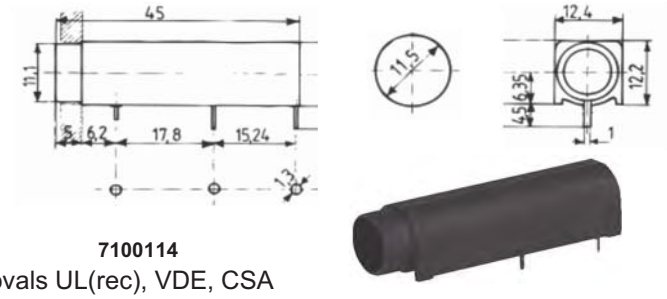
G

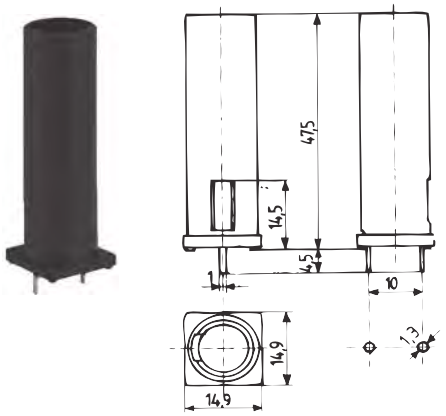
## Fuse Holders (Fuse Blocks) for miniature Fuse Links 5mm x 20mm or 6.3mm x 32mm




**7100114**

approvals UL(rec), VDE, CSA

| | |
|---|---|
| rated voltage | 250V$_{AC}$ |
| 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

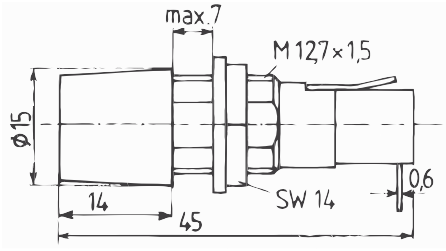
| | |
|---|---|
| rated voltage | 250V$_{AC}$ |
| rated current | 10A (VDE) / 16A (UL/CSA) |
| rated power | 2.5 W @ 10A(5x20mm) |
| rated power | 3.2 W @ 10A(6.3x32mm) |
| dielectric strength | 3 kV |
| protection standard | IP 40 |
| shock safe category | PC2 |
| mounting | PCB |
| pin distance | 10mm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

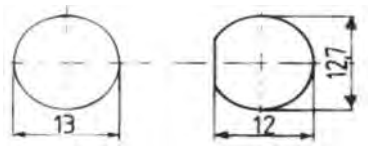
5x20mm

**7200108**

6.3x32

**7200109**

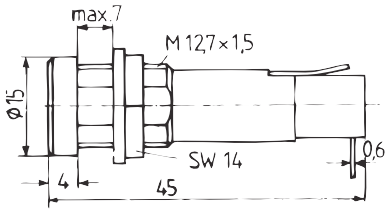


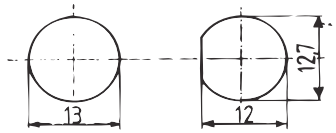




**7100123**

approvals UL(rec) 20A, VDE 10A

| | |
|---|---|
| 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 | M12.7x1.5 |
| fuse carrier | bayonet cap |
| connections | solder |




**7100124**

approvals UL(rec), VDE,CSA

## SIBA Cross Reference

| ELU → SIBA | | | | | | SIBA → ELU | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ELU | SIBA | page | ELU | SIBA | page | SIBA | ELU | page | SIBA | ELU | page |
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| | | | 166500GT | 70 164 76 | 596 | | | | 7400103 | 199207 | 634 |



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