

**G-Sicherungseinsätze**  
miniature fuse links

Sonderausführung (nicht genormt)  
Special type (not standardized)

Keramikrohr (undurchsichtig)  
ceramic tube (non-transparent)

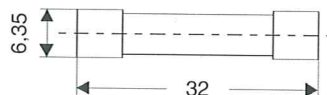


träge  
time-lag

Approbationen / approvals



verwechselbar  
interchangeable



**ELU Type**  
**189 140**

| Art.-Nr.  | Bemessungs-<br>strom<br>rated current | Spannungsabfall<br>voltage drop<br>mV max. | Schmelzintegral<br>I <sup>2</sup> t-value<br>A <sup>2</sup> s | Verlustleistung<br>Power loss<br>bei/at 1,5 x I <sub>rat</sub><br>W | Bemessungs-<br>ausschaltvermögen<br>rated breaking<br>capacity | Bemessungs-<br>spannung<br>rated voltage | Approbationen<br>Approvals<br>UL rec. |
|-----------|---------------------------------------|--------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------|---------------------------------------|
| 70 065 65 | 100 mA                                | 3600                                       | 0,05                                                          | 1,3                                                                 |                                                                |                                          |                                       |
|           | 125 mA                                | 3400                                       | 0,08                                                          | 1,4                                                                 |                                                                |                                          |                                       |
|           | 160 mA                                | 3000                                       | 0,12                                                          | 1,5                                                                 |                                                                |                                          |                                       |
|           | 200 mA                                | 2500                                       | 0,20                                                          | 1,6                                                                 |                                                                |                                          |                                       |
|           | 250 mA                                | 2000                                       | 0,35                                                          | 1,7                                                                 |                                                                |                                          |                                       |
|           | 315 mA                                | 1800                                       | 0,50                                                          | 1,8                                                                 |                                                                |                                          |                                       |
|           | 400 mA                                | 1600                                       | 0,80                                                          | 2,0                                                                 |                                                                |                                          |                                       |
|           | 500 mA                                | 450                                        | 0,32                                                          | 0,6                                                                 |                                                                |                                          |                                       |
|           | 630 mA                                | 400                                        | 0,60                                                          | 0,7                                                                 | 1500 A                                                         | 10 kA                                    |                                       |
|           | 800 mA                                | 350                                        | 1,0                                                           | 0,8                                                                 | 500 V AC                                                       | bei / at                                 |                                       |
|           | 1 A                                   | 350                                        | 1,5                                                           | 0,9                                                                 | bei / at                                                       | 440 V AC                                 |                                       |
|           | 1,25 A                                | 300                                        | 3,1                                                           | 1,0                                                                 | cos φ = 1,0                                                    | cos φ = 0,3                              |                                       |
|           | 1,6 A                                 | 200                                        | 5,2                                                           | 1,1                                                                 |                                                                | 500 V                                    |                                       |
|           | 2 A                                   | 180                                        | 10                                                            | 1,2                                                                 |                                                                |                                          |                                       |
|           | 2,5 A                                 | 160                                        | 19                                                            | 1,3                                                                 |                                                                |                                          |                                       |
|           | 3,15 A                                | 150                                        | 37                                                            | 1,4                                                                 |                                                                |                                          |                                       |
|           | 4 A                                   | 140                                        | 68                                                            | 1,5                                                                 |                                                                |                                          |                                       |
|           | 5 A                                   | 135                                        | 80                                                            | 2,2                                                                 |                                                                |                                          |                                       |
|           | 6,3 A                                 | 110                                        | 215                                                           | 2,2                                                                 |                                                                |                                          |                                       |
|           | 8 A*                                  | 110                                        | 370                                                           | 2,6                                                                 |                                                                |                                          |                                       |
|           | 10 A*                                 | 100                                        | 620                                                           | 3,0                                                                 |                                                                |                                          |                                       |
|           | 12,5 A*                               | 100                                        | 1300                                                          | 3,5                                                                 |                                                                |                                          |                                       |
|           | 16 A*                                 | 100                                        | 2500                                                          | 4,0                                                                 |                                                                |                                          |                                       |
|           | 20 A*                                 | 100                                        | 3400                                                          | 6,0                                                                 | 1500 A bei/at                                                  |                                          |                                       |
|           | 25 A*                                 | 100                                        | 5600                                                          | 8,0                                                                 | 440 V AC, cos φ = 1                                            | 440 V                                    |                                       |
|           | 32 A*                                 | 80                                         | 3900                                                          | 10,0                                                                | 1500 A bei/at                                                  | 250 V                                    |                                       |
|           |                                       |                                            |                                                               |                                                                     | 250 V AC, cos φ = 1                                            |                                          |                                       |

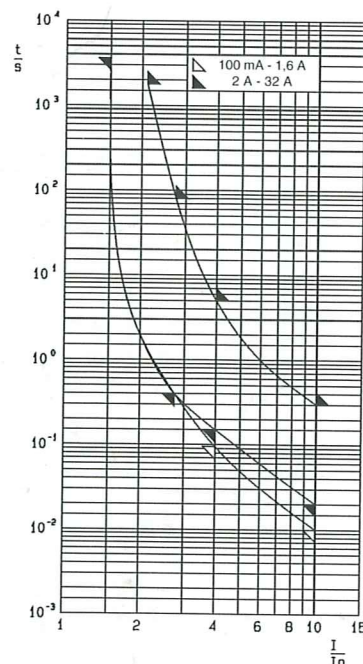
\* Bei Verwendung dieser G-Sicherungseinsätze ist auf ausreichende Wärmeabfuhr zu achten. / When using this type, consideration should be given to heat dissipation

**Grenzwerte der Schmelzzeit / pre-arcing time limits**

| Bemessungs-<br>strom<br>rated current | 1,5 I <sub>rat</sub> | 2,1 I <sub>rat</sub> | 2,75 I <sub>rat</sub> | 4 I <sub>rat</sub> | 10 I <sub>rat</sub> |
|---------------------------------------|----------------------|----------------------|-----------------------|--------------------|---------------------|
| 100 mA ...<br>1,6 A                   | > 1 h                | < 30 min.            | 400ms ...<br>80 s     | 95 ms ...<br>5 s   | 10 ms ...<br>300 ms |
| 2 A ... 32 A                          |                      |                      |                       | 150 ms ...<br>5 s  | 20 ms ...<br>300 ms |

Gewicht / weight: 0,24 kg/100

Verpackungseinheit / packing unit: 100 Stück/pcs.





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File E167295  
Project 94ME51915

June 28, 1995

REPORT

on

COMPONENT FUSES - MISCELLANEOUS, MINIATURE, AND MICRO

SIPA Sicherungen-Bau GmbH  
Lunen, Germany

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A not-for-profit organization  
dedicated to public safety and  
committed to quality service

DESCRIPTIONPRODUCT COVERED:

Component - Miniature Fuses; Cat. Nos. 70 followed by 065 63, followed by 1 to 6.3, Cat. Nos. 70 followed by 065 65, followed by 3.15 to 16, Cat. Nos. 70 followed by 007 65 by 8, or 10.

ELECTRICAL RATINGS:

| <u>Catalog Number</u> | <u>Voltage Rating</u> | <u>Continuous Current Ratings</u><br><u>Amps. Ratings of Range</u> |
|-----------------------|-----------------------|--------------------------------------------------------------------|
| 70 065 63             | 500 V ac/dc           | 1 to 6.3                                                           |
| 70 007 65             | 250 V ac              | 8 to 10                                                            |
| * 70 065 65           | 500 V ac              | 3.15 to 16                                                         |

INTERRUPTING RATINGS:

| <u>Catalog Number</u> | <u>Maximum</u><br><u>Interrupting Current</u> | <u>Voltage</u> | <u>Time Constant</u><br><u>or</u><br><u>Power Factor</u> |
|-----------------------|-----------------------------------------------|----------------|----------------------------------------------------------|
| 70 065 63             | 50,000 A                                      | 500 V ac       | Resistive                                                |
|                       | 20,000 A                                      | 500 V dc       | Resistive                                                |
| 70 007 65             | 4,000 A                                       | 250 V ac       | Resistive                                                |
| * 70 065 65           | 1,500 A                                       | 500 V ac       | Resistive                                                |

MINIMUM BREAKING CAPACITY:

The Minimum Breaking Capacity Ratio, "MBC", of these fuses is reported below. This Ratio is the RMS available circuit current of the lowest overload circuit that is allowable for a particular fuse divided by the Current Rating of that particular fuse.

| <u>Fuse Type</u> | <u>Minimum</u><br><u>Breaking Capacity Ratio</u> |
|------------------|--------------------------------------------------|
| ALL              | 2.0                                              |

ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE USE):

These products are intended for use in Listed or Recognized equipment, only where the acceptability of the application has been determined by Underwriters Laboratories Inc. .

CONDITIONS OF ACCEPTABILITY:

1. Time Current Calibration Performance at 135 and 200 percent of rated current and temperature has not been determined.
2. Interrupting tests were performed with Resistive Circuits. These fuses can not be used in applications where there will be a substantial influence of circuit magnetic elements, unless additional short circuit tests are performed with circuits providing time constants or power factors representative of the application.

CONSTRUCTION DETAILS:

Description - It should be noted that all items are as described, except where otherwise specified. All dimensions reported are approximate except where noted as "min." or "max." All dimensions included in this report are in millimeters "mm" unless otherwise specified.

MARKING:

These fuses are marked with the name of the Recognized company, along with the catalog number designation. The electrical rating which includes the voltage and current rating, may also be provided. The catalog designation is permanently marked on the fuse. The current rating may be provided as part of the catalog designation, in the form of a numerical suffix. The voltage, and maximum interrupting ability must be marked on the fuse or on the smallest package.

JDYX2 June 22, 1996  
Component - Fuses, Miscellaneous, Miniature, and Micro

SIBA SICHERUNGEN-BAU GMBH  
POSTFACH 1940 , 44609 LUNEN FED REP  
GERMANY

E167295 (M)

Miniature fuse.

Cat. No. 70 followed by 065 83, followed by 1 to 8.3; Cat. No. 70 followed by 065 85, followed by 3.15 to 78; Cat. No. 70 followed by 007 85, followed by 8, or 10.

Marking: Company name and catalog designation.

See General Information Preceding These Recognitions.

For use only in equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

Report: June 28, 1996.

129253001

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