

# Fuses for Semiconductor Protection

## Cylindrical Fuses



SIBA cylindrical ultra-rapid fuses are available in six different sizes. They can be fitted with or without a built-in striker pin for fuse blown indication or operation of microswitches.

Approval:   
Standards: IEC 60269-1 and -4  
DIN VDE 0636-40  
UL 248-13  
Classes: gR/aR/gRL (gS)  
Current ratings: 100 mA – 250 A

### Sizes and voltage ratings:

|               |                          |
|---------------|--------------------------|
| 5 x 20 mm:    | AC 250 V                 |
| 6.35 x 32 mm: | AC 500 – 1000 V          |
| 10 x 38 mm:   | AC 600 – 1000 V          |
| 14 x 51 mm:   | AC 500/600V – 690/700 V  |
| 22 x 58 mm:   | AC 500/600 V – 690/700 V |
| 27 x 60 mm:   | AC 660 V – 1000 V        |

## Features / Benefits

- ▶ High interrupting rating up to 300 kA
- ▶ Voltage rating AC 250 V to AC 1000 V
- ▶ Protection of Power Semiconductors according to IEC 60269-1 and -4
- ▶ Available with integrated striker pin
- ▶ Classes according to IEC 60269-4 and DIN VDE 0636-40
- ▶ Fuse-holder / fuse-clips and accessories are available



## Fuses for Semiconductor Protection

### Cylindrical Fuses

## Selection Guide Fuse-Links

| Size      | Rated Voltage | Indicator Type | Part No.  | Selector Guide [Page] | Techn. Data [Page] |  |
|-----------|---------------|----------------|-----------|-----------------------|--------------------|--|
| 5 x 20    | AC 250 V      | –              | 70 001 40 | URZ 4                 | URZ 16             |  |
| 5 x 20    | AC 250 V      | –              | 70 007 40 | URZ 4                 | URZ 16             |  |
| 6.35 x 32 | AC 500/700 V  | –              | 70 125 40 | URZ 5                 | URZ 18             |  |
| 6.35 x 32 | AC 400 V      | –              | 70 065 84 | URZ 5                 | URZ 17             |  |
| 6.35 x 32 | AC/DC 1000 V  | –              | 70 172 40 | URZ 6                 | URZ 19             |  |
| 10 x 38   | AC 600 V      | –              | 60 034 34 | URZ 7                 | URZ 20             |  |
| 10 x 38   | AC 600 V      | –              | 60 064 34 | URZ 7                 | URZ 20             |  |
| 10 x 38   | AC 600 V      | –              | 60 033 05 | URZ 7                 | URZ 21             |  |
| 10 x 38   | AC 660 V      | –              | 50 179 06 | URZ 8                 | URZ 22             |  |
| 10 x 38   | AC/DC 1000 V  | –              | 50 199 06 | URZ 8                 | URZ 23             |  |
| 10 x 35   | AC/DC 1000 V  | –              | 50 210 06 | URZ 8                 | URZ 24             |  |
| 14 x 51   | AC 500/600 V  | –              | 50 058 06 | URZ 9                 | URZ 25             |  |
| 14 x 51   | AC 500/600 V  | with striker   | 50 059 06 | URZ 9                 | URZ 25             |  |
| 14 x 51   | AC 690 V      | –              | 50 124 06 | URZ 9                 | URZ 27             |  |
| 14 x 51   | AC 690 V      | with striker   | 50 126 06 | URZ 9                 | URZ 27             |  |
| 14 x 51   | AC 690 V      | –              | 50 124 34 | URZ 10                | URZ 26             |  |
| 14 x 51   | AC 690 V      | with striker   | 50 126 34 | URZ 10                | URZ 26             |  |
| 14 x 51   | DC 700 V      | –              | 50 118 06 | URZ 11                | URZ 28             |  |
| 14 x 51   | DC 700 V      | –              | 50 201 06 | URZ 11                | URZ 29             |  |
| 22 x 58   | AC 500/660 V  | –              | 50 060 06 | URZ 12                | URZ 30             |  |
| 22 x 58   | AC 500/660 V  | with striker   | 50 061 06 | URZ 12                | URZ 30             |  |
| 22 x 58   | AC 690 V      | –              | 50 140 06 | URZ 12                | URZ 31             |  |
| 22 x 58   | AC 690 V      | with striker   | 50 142 06 | URZ 12                | URZ 31             |  |
| 22 x 58   | AC 690 V      | –              | 50 140 34 | URZ 13                | URZ 32             |  |
| 22 x 58   | AC 690 V      | with striker   | 50 142 34 | URZ 13                | URZ 32             |  |
| 27 x 60   | AC 660 V      | –              | 50 193 20 | URZ 14                | URZ 33             |  |
| 27 x 60   | AC 660 V      | with striker   | 50 194 20 | URZ 14                | URZ 33             |  |
| 27 x 60   | AC 1000 V     | –              | 50 196 20 | URZ 14                | URZ 34             |  |
| 27 x 60   | AC 1000 V     | with striker   | 50 197 20 | URZ 14                | URZ 34             |  |
| 27 x 60   | DC 660 V      | –              | 50 190 06 | URZ 15                | URZ 35             |  |



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### Cylindrical Fuses

### Selection Guide Fuse-Holder ZS-Modul

| ZS-Module | Number of Poles | Indicator Type | Part No.     | Techn. Data [Page] |  |
|-----------|-----------------|----------------|--------------|--------------------|--|
| 10 x 38   | 1               | -              | 51 063 04.DC | URZ 37             |  |
| 10 x 38   | 1               | -              | 51 063 04    | URZ 37             |  |
| 10 x 38   | 2               | -              | 51 063 04.2  | URZ 37             |  |
| 10 x 38   | 3               | -              | 51 063 04.3  | URZ 37             |  |
| 10 x 38   | 1               | LED indicator  | 51 063 04.L  | URZ 37             |  |
| 10 x 38   | 2               | LED indicator  | 51 063 04.2L | URZ 37             |  |
| 10 x 38   | 3               | LED indicator  | 51 063 04.3L | URZ 37             |  |
| 14 x 51   | 1               | -              | 51 058 04    | URZ 37             |  |
| 14 x 51   | 2               | -              | 51 058 04.2  | URZ 37             |  |
| 14 x 51   | 3               | -              | 51 058 04.3  | URZ 37             |  |
| 14 x 51   | 1               | micro switch   | 51 058 04.S  | URZ 37             |  |
| 14 x 51   | 2               | micro switch   | 51 058 04.2S | URZ 37             |  |
| 14 x 51   | 3               | micro switch   | 51 058 04.3S | URZ 37             |  |
| 22 x 58   | 1               | -              | 51 060 04    | URZ 37             |  |
| 22 x 58   | 2               | -              | 51 060 04.2  | URZ 37             |  |
| 22 x 58   | 3               | -              | 51 060 04.3  | URZ 37             |  |
| 22 x 58   | 1               | micro switch   | 51 060 04.S  | URZ 37             |  |
| 22 x 58   | 3               | micro switch   | 51 060 04.3S | URZ 37             |  |

### Selection Guide Fuse-Clips

| Size  | Part No.    | Techn. Data [Page] | Type      |  |
|-------|-------------|--------------------|-----------|--|
| 10 mm | 61 017 01.2 | URZ 35             |           |  |
| 14 mm | 61 001 01.2 | URZ 35             | screw     |  |
| 22 mm | 61 002 01.3 | URZ 35             | mountable |  |
| 27 mm | 61 004 01.3 | URZ 35             |           |  |
| 14 mm | 58 058 06   | URZ 36             | PCB       |  |
| 22 mm | 58 060 06   | URZ 36             | mountable |  |



## Fuses for Semiconductor Protection

### Cylindrical Fuses

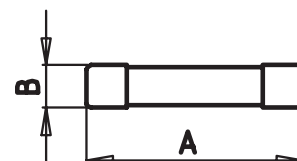
Size  
**5 x 20 mm**

Rated Voltage  
**AC 250 V**

Class  
**aR**

| Rated Current<br>[A] | Part No.        | Rated Breaking<br>Capacity<br>[kA] | UL Rec. | Weight<br>[kg/100] | Pack |  |
|----------------------|-----------------|------------------------------------|---------|--------------------|------|--|
| 100 mA               | 70 001 40.0.100 | 300                                | ✓       | 0.14               | 100  |  |
| 125 mA               | 70 001 40.0.125 | 300                                | ✓       | 0.14               | 100  |  |
| 160 mA               | 70 001 40.0.160 | 300                                | ✓       | 0.14               | 100  |  |
| 200 mA               | 70 001 40.0.200 | 300                                | ✓       | 0.14               | 100  |  |
| 250 mA               | 70 001 40.0.250 | 300                                | ✓       | 0.14               | 100  |  |
| 315 mA               | 70 001 40.0.315 | 300                                | ✓       | 0.14               | 100  |  |
| 400 mA               | 70 001 40.0.400 | 300                                | ✓       | 0.14               | 100  |  |
| 500 mA               | 70 001 40.0.500 | 300                                | ✓       | 0.14               | 100  |  |
| 630 mA               | 70 001 40.0.630 | 300                                | ✓       | 0.14               | 100  |  |
| 800 mA               | 70 001 40.0.800 | 300                                | ✓       | 0.14               | 100  |  |
| 1                    | 70 001 40.1     | 300                                | ✓       | 0.14               | 100  |  |
| 1.25                 | 70 001 40.1.25  | 300                                | ✓       | 0.14               | 100  |  |
| 1.6                  | 70 001 40.1.6   | 300                                | ✓       | 0.14               | 100  |  |
| 2                    | 70 001 40.2     | 300                                | ✓       | 0.14               | 100  |  |
| 2.5                  | 70 001 40.2.5   | 300                                | ✓       | 0.14               | 100  |  |
| 3.15                 | 70 001 40.3.15  | 300                                | ✓       | 0.14               | 100  |  |
| 4                    | 70 001 40.4     | 300                                | ✓       | 0.14               | 100  |  |
| 5                    | 70 001 40.5     | 300                                | ✓       | 0.14               | 100  |  |
| 6.3                  | 70 001 40.6.3   | 1 500 A                            |         | 0.14               | 100  |  |
| 8                    | 70 001 40.8     | 1 500 A                            |         | 0.14               | 100  |  |
| 10                   | 70 001 40.10    | 1 500 A                            |         | 0.14               | 100  |  |
| 6.3                  | 70 007 40.6.3   | 300                                | ✓       | 0.14               | 100  |  |
| 8                    | 70 007 40.8     | 300                                | ✓       | 0.14               | 100  |  |
| 10                   | 70 007 40.10    | 300                                | ✓       | 0.14               | 100  |  |
| 12.5                 | 70 007 40.12.5  | 300                                | ✓       | 0.14               | 100  |  |

**A** 0.79" (20 mm)  
**B** 0.2" (5 mm)





## Fuses for Semiconductor Protection

### Cylindrical Fuses

Size  
**6.35 x 32 mm**

Rated Voltage  
**AC 400 V**

Class  
**gRL(gS)**

| Rated Current<br>[A] | Part No.       | Rated Breaking Capacity<br>[kA] | Rated Voltage<br>[AC] | UL Rec. | Weight<br>[kg/100] | Pack |  |
|----------------------|----------------|---------------------------------|-----------------------|---------|--------------------|------|--|
| 6.3                  | 70 065 84.6.3  | 120 kA                          | 400 V                 | ✓       | 0.9                | 10   |  |
| 8                    | 70 065 84.8    | 120 kA                          | 400 V                 | ✓       | 0.9                | 10   |  |
| 10                   | 70 065 84.10   | 120 kA                          | 400 V                 | ✓       | 0.9                | 10   |  |
| 12.5                 | 70 065 84.12.5 | 120 kA                          | 400 V                 | ✓       | 0.9                | 10   |  |
| 16                   | 70 065 84.16   | 120 kA                          | 400 V                 | ✓       | 0.9                | 10   |  |
| 20                   | 70 065 84.20   | 120 kA                          | 400 V                 | ✓       | 0.9                | 10   |  |

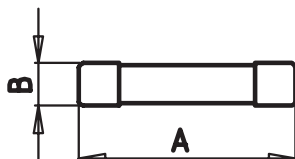
Size  
**6.35 x 32 mm**

Rated Voltage  
**AC 500/700 V**

Class  
**aR**

| Rated Current<br>[A] | Part No.        | Rated Breaking Capacity<br>[kA] | Rated Voltage<br>[V] | UL Rec. | c UL | Weight<br>[kg/100] | Pack |  |
|----------------------|-----------------|---------------------------------|----------------------|---------|------|--------------------|------|--|
| 160 mA               | 70 125 40.0.160 | 50                              | 700                  | ✓       | ✓    | 0.24               | 100  |  |
| 200 mA               | 70 125 40.0.200 | 50                              | 700                  | ✓       | ✓    | 0.24               | 100  |  |
| 250 mA               | 70 125 40.0.250 | 50                              | 700                  | ✓       | ✓    | 0.24               | 100  |  |
| 315 mA               | 70 125 40.0.315 | 50                              | 700                  | ✓       | ✓    | 0.24               | 100  |  |
| 400 mA               | 70 125 40.0.400 | 50                              | 700                  | ✓       | ✓    | 0.24               | 100  |  |
| 500 mA               | 70 125 40.0.500 | 50                              | 700                  | ✓       | ✓    | 0.24               | 100  |  |
| 630 mA               | 70 125 40.0.630 | 50                              | 700                  | ✓       | ✓    | 0.24               | 100  |  |
| 800 mA               | 70 125 40.0.800 | 50                              | 700                  | ✓       | ✓    | 0.24               | 100  |  |
| 1                    | 70 125 40.1     | 50                              | 700                  | ✓       | ✓    | 0.24               | 100  |  |
| 1.25                 | 70 125 40.1.25  | 50                              | 700                  | ✓       | ✓    | 0.24               | 100  |  |
| 1.6                  | 70 125 40.1.6   | 50                              | 700                  | ✓       | ✓    | 0.24               | 100  |  |
| 2                    | 70 125 40.2     | 50                              | 700                  | ✓       | ✓    | 0.24               | 100  |  |
| 2.5                  | 70 125 40.2.5   | 50                              | 500                  | ✓       | ✓    | 0.24               | 100  |  |
| 3.15                 | 70 125 40.3.15  | 50                              | 500                  | ✓       | ✓    | 0.24               | 100  |  |
| 4                    | 70 125 40.4     | 50                              | 500                  | ✓       | ✓    | 0.24               | 100  |  |
| 5                    | 70 125 40.5     | 50                              | 500                  | ✓       | ✓    | 0.24               | 100  |  |
| 6.3                  | 70 125 40.6.3   | 50                              | 500                  | ✓       | ✓    | 0.24               | 100  |  |
| 8 <sup>1</sup>       | 70 125 40.8     | 50                              | 500                  | ✓       | ✓    | 0.24               | 100  |  |
| 10 <sup>1</sup>      | 70 125 40.10    | 50                              | 500                  | ✓       | ✓    | 0.24               | 100  |  |
| 12.5 <sup>1</sup>    | 70 125 40.12.5  | 50                              | 500                  | ✓       | ✓    | 0.24               | 100  |  |
| 16 <sup>1</sup>      | 70 125 40.16    | 50                              | 500                  | ✓       | ✓    | 0.24               | 100  |  |
| 20 <sup>1</sup>      | 70 125 40.20    | 50                              | 500                  | ✓       | ✓    | 0.24               | 100  |  |

<sup>1</sup> Consideration should be given to heat dissipation.



**A** 1.26" (32 mm)  
**B** 0.25" (6.35 mm)



## Fuses for Semiconductor Protection

### Cylindrical Fuses

Size **6.35 x 32 mm**    Rated Voltage **AC/DC 1000 V**    **DMI Fuse for Digital Measuring Instruments**    Class **aR**

| Rated Current [A] | Part No.        | UL Rec. | Weight [kg/100] | Pack |  |
|-------------------|-----------------|---------|-----------------|------|--|
| 315 mA            | 70 172 40.0.315 |         | 0.24            | 100  |  |
| 500 mA            | 70 172 40.0.500 |         | 0.24            | 100  |  |
| 1.6 A             | 70 172 40.1.6   |         | 0.24            | 100  |  |
| 2 A               | 70 172 40.2     |         | 0.24            | 100  |  |

A 1.26" (32 mm)  
B 0.25" (6.35 mm)

