# Protistor<sup>®</sup> size 71 gR

#### SEMICONDUCTOR PROTECTION FUSES

## SQUARE BODY HIGH-SPEED FUSE-LINKS DC PROTECTION



These Protistor® fuse-links provide maximum flexibility in equipment design and ultimate protection for today's power conversion equipment. These square body fuse-links are available in different body sizes, each size having multiple worldwide acceptable mounting styles.

The Protistor® have been engineered to provide state-of-the-art protection for semiconductors: diodes, thyristors, GTO's and IGBT devices. Fuses are assembled with pure silver, die-cut elements embedded in solidified sand, which helps control arcing characteristics for a lower I<sup>2</sup>t and high interrupting rating level. All contact surfaces are silver plated and all hardware is non-magnetic.

All fuse-links can be equipped with a low voltage trip-indicator which can operate a field mountable microswitch.

## TECHNICAL DATA OVERVIEW

| Voltage Range DC     | 450 600 VDC |
|----------------------|-------------|
| Ampere Range (A)     | 125 450 A   |
| Speed/Characteristic | gR          |
| Product Size         | 71          |

### **FEATURES & BENEFITS**

- Multiple body sizes and terminals or blades combination
- gR Class according to IEC 60269-4 and VDE 636-23
- Low I<sup>2</sup>t for improved semiconductor protection
- Extremely fast acting
- Eliminate all overloads
- Excellent cycling capability

### APPLICATIONS

• Protection of inverters, motor drives, UPS systems and similar 600V or less equipments.

#### **STANDARDS**

• IEC 60269-4 Compliance

# C€ ERE



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# PRODUCT RANGE



#### D71GB55V400TF

#### Size 71 type TTF-with one ISO metric threaded hole

| Catalog<br>number | ltem<br>number | Rated voltage DC<br>(IEC) | Rated voltage DC<br>(UL) | Rated current In | Pre-arcing I <sup>2</sup> t | Power dissipation at In | Package | Weight  |
|-------------------|----------------|---------------------------|--------------------------|------------------|-----------------------------|-------------------------|---------|---------|
| D71GB60V125TF     | Z302081        | 600 V                     | 650 V                    | 125 A            | 1058 A²s                    | 35 W                    | 3       | 0.51 kg |
| D71GB60V160TF     | A302082        | 600 V                     | 650 V                    | 160 A            | 2394 A²s                    | 38 W                    | 3       | 0.51 kg |
| D71GB60V200TF     | B302083        | 600 V                     | 650 V                    | 200 A            | 5000 A²s                    | 41 W                    | 3       | 0.51 kg |
| D71GB60V250TF     | C302084        | 600 V                     | 650 V                    | 250 A            | 9577 A²s                    | 46 W                    | 3       | 0.51 kg |
| D71GB60V315TF     | D302085        | 600 V                     | 650 V                    | 315 A            | 18432 A <sup>2</sup> s      | 53 W                    | 3       | 0.51 kg |
| D71GB60V350TF     | E302086        | 600 V                     | 650 V                    | 350 A            | 23156 A <sup>2</sup> s      | 58 W                    | 3       | 0.51 kg |
| D71GB55V400TF     | F302087        | 550 V                     | 600 V                    | 400 A            | 38309 A <sup>2</sup> s      | 59 W                    | 3       | 0.51 kg |
| D71GB45V450TF     | S1006496       | 450 V                     | 450 V                    | 450 A            | 61671 A²s                   | 59 W                    | 3       | 0.51 kg |



#### D71GB55V400EF

#### Size 71 EF style notched blade connections

| Catalog<br>number | ltem<br>number | Rated voltage DC<br>(IEC) | Rated voltage DC<br>(UL) | Rated current In | Pre-arcing I <sup>2</sup> t | Power dissipation<br>at I <sub>n</sub> | Package | Weight  |
|-------------------|----------------|---------------------------|--------------------------|------------------|-----------------------------|--|---------|---------|
| D71GB60V160EF     | A302680        | 600 V                     | 650 V                    | 160 A            | 2394 A²s                    | 38 W                                   | 3       | 0.54 kg |
| D71GB60V200EF     | D302706        | 600 V                     | 650 V                    | 200 A            | 5000 A²s                    | 42 W                                   | 3       | 0.54 kg |
| D71GB60V250EF     | D302223        | 600 V                     | 650 V                    | 250 A            | 9577 A²s                    | 48 W                                   | 3       | 0.54 kg |
| D71GB60V315EF     | D234143        | 600 V                     | 650 V                    | 315 A            | 18432 A²s                   | 54 W                                   | 3       | 0.54 kg |
| D71GB55V400EF     | L302690        | 550 V                     | 600 V                    | 400 A            | 38309 A²s                   | 61 W                                   | 3       | 0.54 kg |

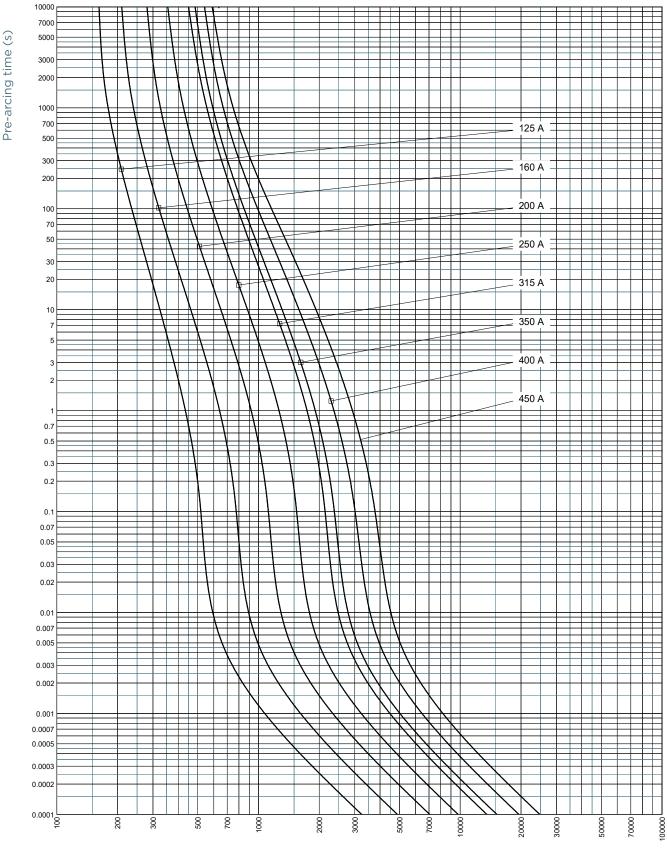


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# TIME CURRENT CHARACTERISTIC CURVES



RMS value of prospective current (A) +/- 8%

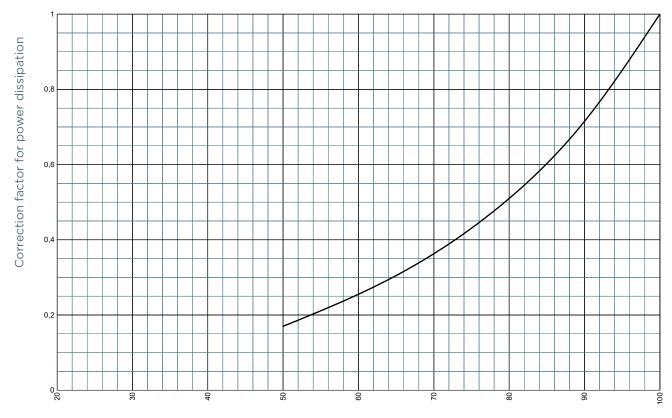
Semiconductor Protection Fuses / DS-PFSQ7GDC1-10-0125-EN



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## POWER DISSIPATION



% of rated current

Semiconductor Protection Fuses / DS-PFSQ7GDC1-10-0125-EN

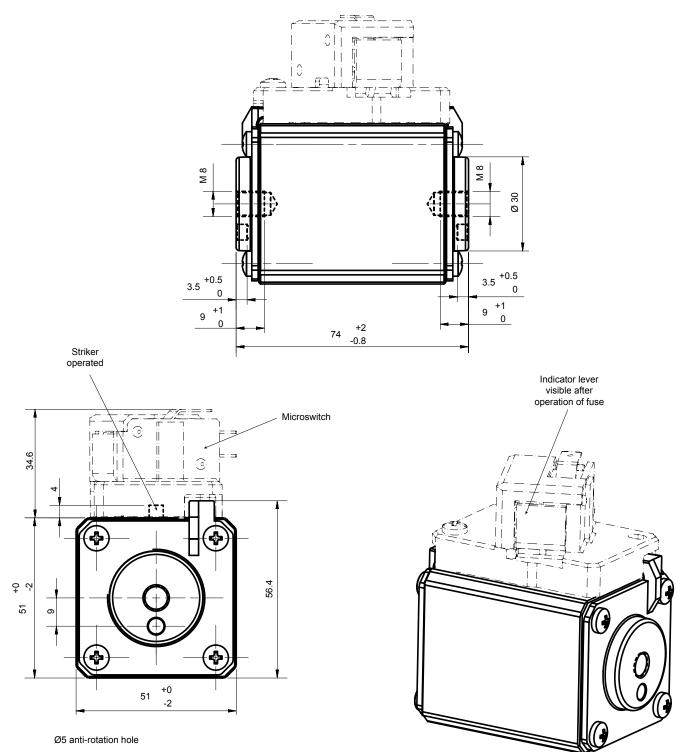


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## DIMENSIONS

#### Size 71 type TTF-with one ISO metric threaded hole



Dimensions in mm

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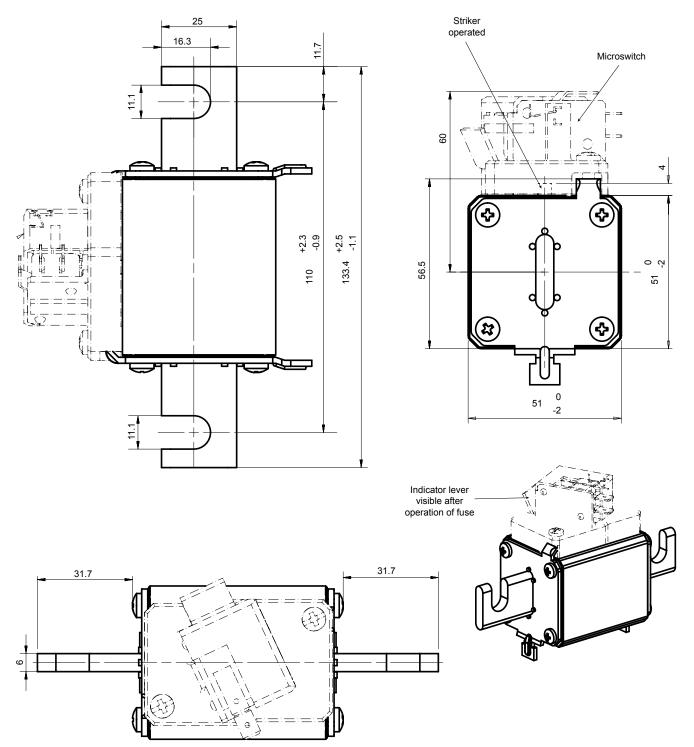
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## Size 71 type TTF-with one ISO metric threaded hole



Dimensions in mm



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