

## FP1 MINI® Style PCB Fuse Rated 32V



### Specifications

LWS

UL 248 Special Purpose Fuses

cULus Recognized: File No. E211637

**Insulating body:** Out of thermoplastic (UL 94-V0, heat-resistant)**Cover:** Out of thermoplastic (V0, transparent),

Visible melting-element

Shunt: Red, not transparent

**Connections:** Soldering pins

Copper alloy, gal. Sn













**Breaking capacity:** 1,000 A, 32 VDC

The FP1 is a MINI style fuse for direct trough-hole pcb soldering. The FP1 has similar performance characteristics as the standard FK1 fuse.

FP1 ist eine Sicherung in MINI-Bauform für direkte Leiterplattenmontage (Durchkontaktierung) mit ähnlichen Leistungsmerkmalen wie die Standard-FK1-Sicherung.

### Time-Current Characteristics / Schmelzeit-Grenzwerte

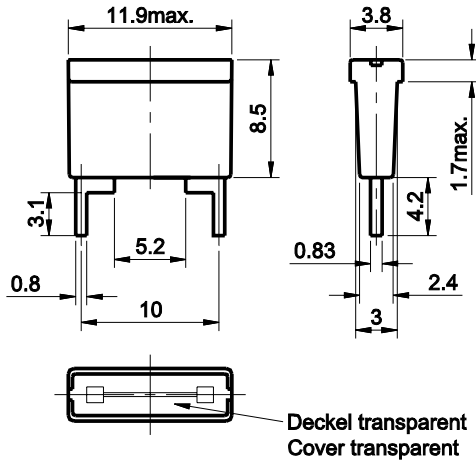
| % of Rating<br>% des Nennstromes | Opening Time Min / Max (s)<br>Schmelzcharakteristik Min / Max (s) |
|----------------------------------|---|
| 110                              | 100 h / –   |
| 135                              | 750 ms / 1,800 s  |
| 200                              | 150 ms / 5 s  |
| 350                              | 40 ms / 500 ms  |
| 600                              | 20 ms / 100 ms  |

| Part Number<br>Artikel-Nr. | Current Rating<br>Nennstrom | Housing Color<br>Kennfarbe  | Typ. Voltage Drop<br>Typ. Spannungsfall |                 | Cold Resistance<br>Kaltwiderstand | I <sup>2</sup> t       |
|----------------------------|-----------------------------|---|---|-----------------|-----------------------------------|------------------------|
|                            |                             |   | Standard DIN max.                       | Littelfuse max. |                                   |                        |
| 168.6585.410_              | 1 A                         |  | 225 mV                                  | 135 mV          | 100 mΩ                            | 0.83 A <sup>2</sup> s  |
| 168.6585.420_              | 2 A                         |  | 200 mV                                  | 110 mV          | 43.0 mΩ                           | 3.31 A <sup>2</sup> s  |
| 168.6585.430_              | 3 A                         |  | 175 mV                                  | 110 mV          | 27.0 mΩ                           | 7.45 A <sup>2</sup> s  |
| 168.6585.440_              | 4 A                         |  | 175 mV                                  | 110 mV          | 21.3 mΩ                           | 16.7 A <sup>2</sup> s  |
| 168.6585.450_              | 5 A                         |  | 175 mV                                  | 105 mV          | 16.2 mΩ                           | 19.8 A <sup>2</sup> s  |
| 168.6585.475_              | 7.5 A                       |  | 150 mV                                  | 100 mV          | 9.70 mΩ                           | 44.5 A <sup>2</sup> s  |
| 168.6585.510_              | 10 A                        |  | 125 mV                                  | 110 mV          | 7.40 mΩ                           | 79.2 A <sup>2</sup> s  |
| 168.6585.515_              | 15 A                        |  | 125 mV                                  | 105 mV          | 4.50 mΩ                           | 178 A <sup>2</sup> s   |
| 168.6585.520_              | 20 A                        |  | –                                       | 100 mV          | 3.10 mΩ                           | 331 A <sup>2</sup> s   |
| 168.6585.525_              | 25 A                        |  | –                                       | 105 mV          | 2.60 mΩ                           | 653 A <sup>2</sup> s   |
| 168.6585.530_              | 30 A                        |  | –                                       | 105 mV          | 1.90 mΩ                           | 1,264 A <sup>2</sup> s |
| 160.6585.0002              | Shunt                       |  | –                                       | 60 mV           | 1.35 mΩ                           | 1,800 A <sup>2</sup> s |

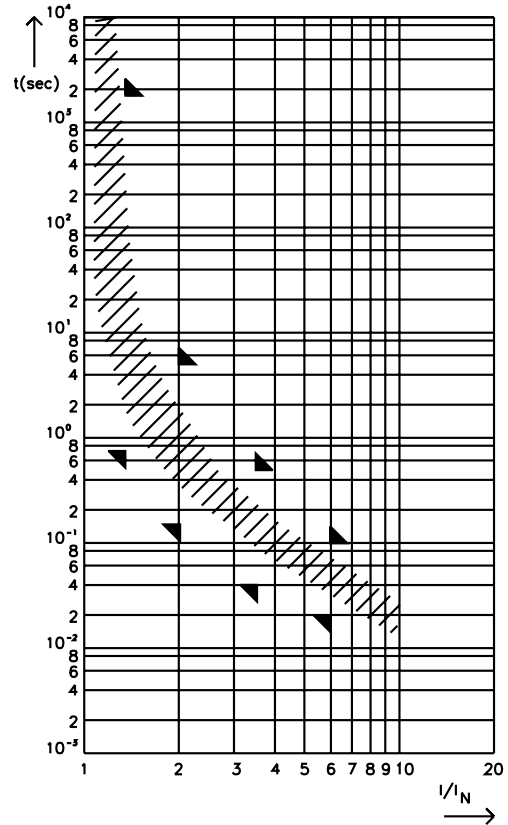
Last figure of part number = packaging code, see Section "Packaging Index," pg. 157.  
Corresponding holder see Section "Fuse Holders."

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Dimensions in mm / Maße in mm



Pre-arcing Time - limits / Schmelzeit-Grenzwerte DIN



FI = 1.33 (max. operating current:  $0.75 \times I_{rat}$  at 23°C)

Blade Fuses