

Protistor[®] size 122 aR

2000VDC

SEMICONDUCTOR PROTECTION FUSES

SQUARE BODY HIGH-SPEED FUSE-LINKS DC PROTECTION



Mersen DC offers provide a very high performing protection for railway power circuits. Mersen DC Semiconductor fuse-links were developed to provide improved performance required by today's new DC equipment. These fuse-links are typically operated in extreme environment more than other fuse type, have lower I²t to minimize damage to protected components on short circuits, lower watts loss and longer life time.

TECHNICAL DATA OVERVIEW

| | |
|----------------------|---------------|
| Voltage DC | 2000 VDC |
| Ampere Range (A) | 160 ... 400 A |
| Speed/Characteristic | aR |
| Product Size | 122 |
| Package | 1 unit |
| Weight | 1.81 kg |

FEATURES & BENEFITS

- Extremely fast acting
- Extremely current limiting
- Very low I²t
- Worldwide acceptability
- Superior cycling ability

APPLICATIONS

- Protection of inverters
- Protection of motor drives
- Protection of UPS systems
- Protection of similar 2000V or less equipments
- Railway power and auxiliary circuits

STANDARDS

- IEC 60269-4 compliance



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PRODUCT RANGE



D122SD20C400QF

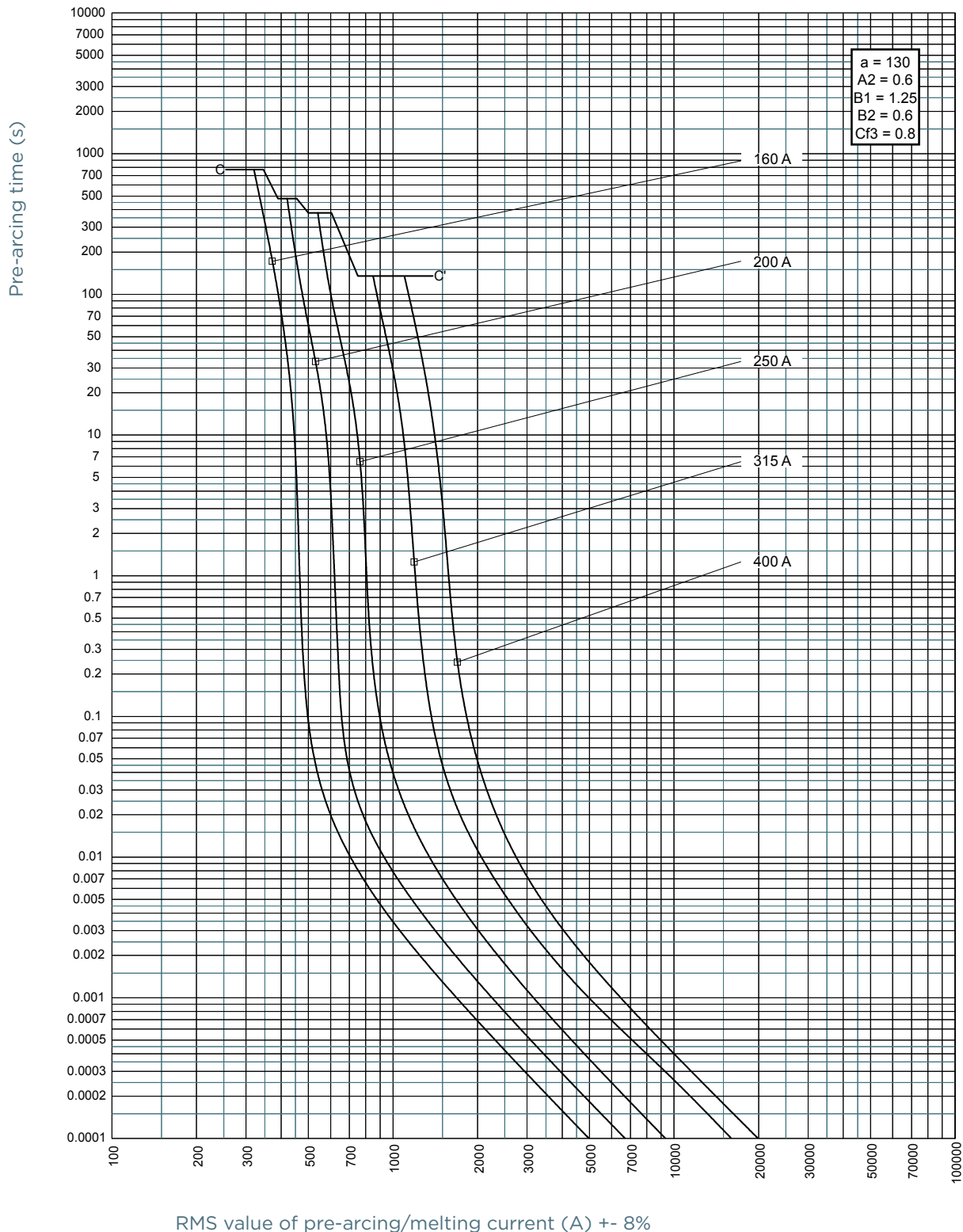
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| Catalog number | Item number | Rated voltage DC (IEC) | Rated current I_n | Rated breaking capacity DC | Max. total I^2t @1600V for L/R=15ms | Max. total I^2t @1600V for L/R=45ms | Power dissipation at I_n | Power dissipation at 0.8 I_n | Weight |
|----------------|-------------|------------------------|---------------------|----------------------------|---------------------------------------|---------------------------------------|----------------------------|--------------------------------|---------|
| D122SD20C160QF | D076639 | 2000 V | 160 A | 100 kA | 15000 A ² s | 25000 A ² s | 100 W | 52.5 W | 1.81 kg |
| D122SD20C200QF | X079462 | 2000 V | 200 A | 100 kA | 26000 A ² s | 44000 A ² s | 118 W | 61.5 W | 1.81 kg |
| D122SD20C250QF | Y079463 | 2000 V | 250 A | 100 kA | 50000 A ² s | 87000 A ² s | 131 W | 69 W | 1.81 kg |
| D122SD20C315QF | Z079464 | 2000 V | 315 A | 100 kA | 117000 A ² s | 200000 A ² s | 150 W | 74 W | 1.81 kg |
| D122SD20C350QF | J080186 | 2000 V | 350 A | 100 kA | - | - | 175 W | - | 1.81 kg |
| D122SD20C400QF | A079465 | 2000 V | 400 A | 100 kA | 219000 A ² s | 380000 A ² s | 175 W | 87 W | 1.81 kg |

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TIME CURRENT CHARACTERISTIC CURVES

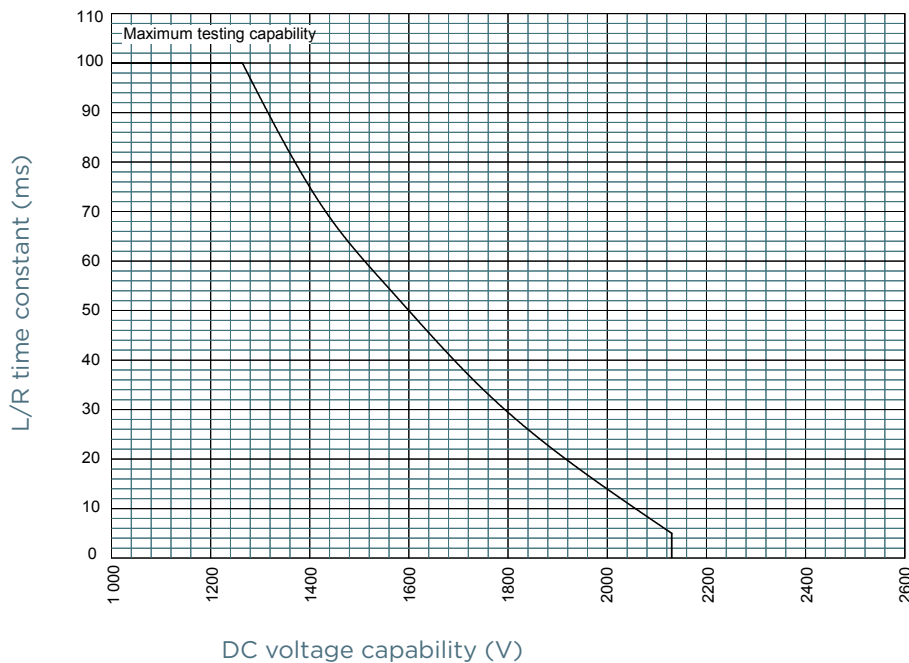
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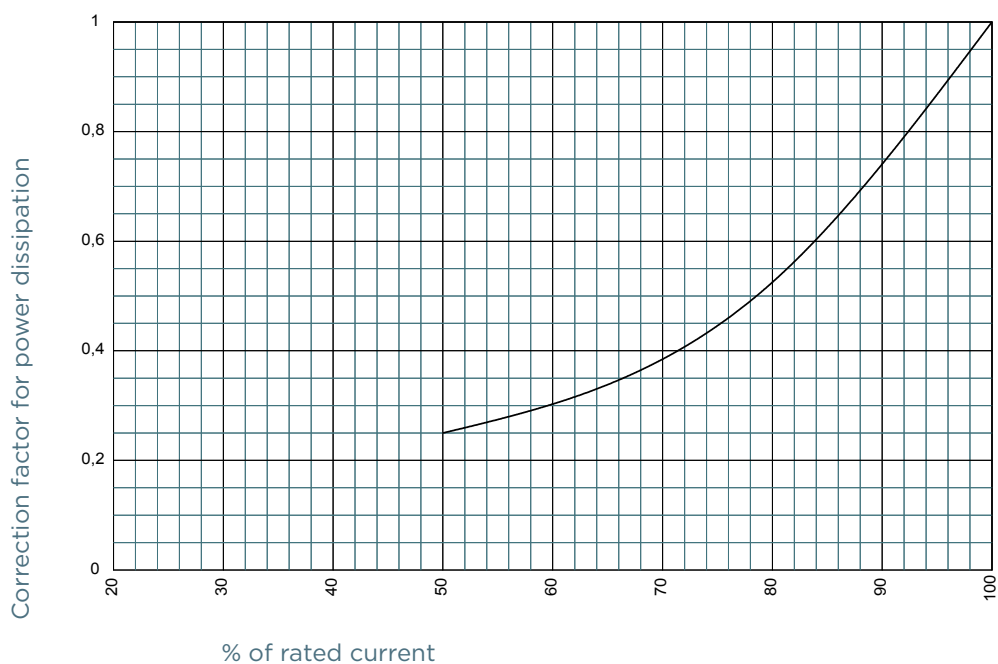
L/R TIME CONSTANT VS DC VOLTAGE CAPABILITY

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POWER DISSIPATION

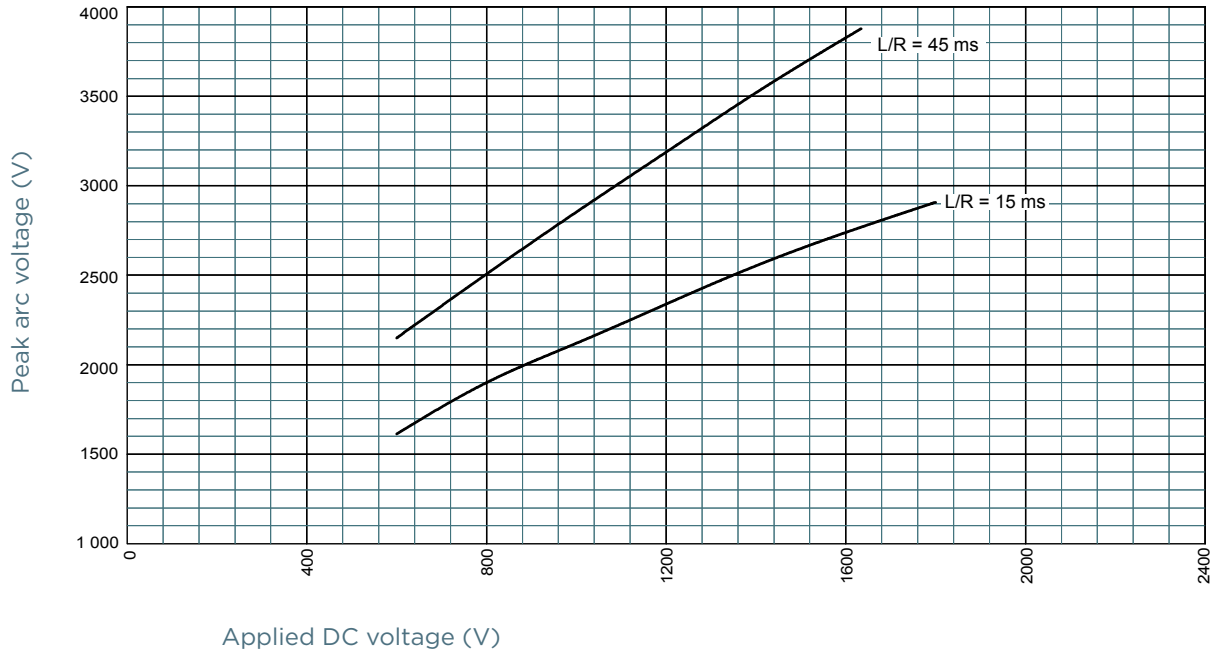
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PEAK ARC VOLTAGE

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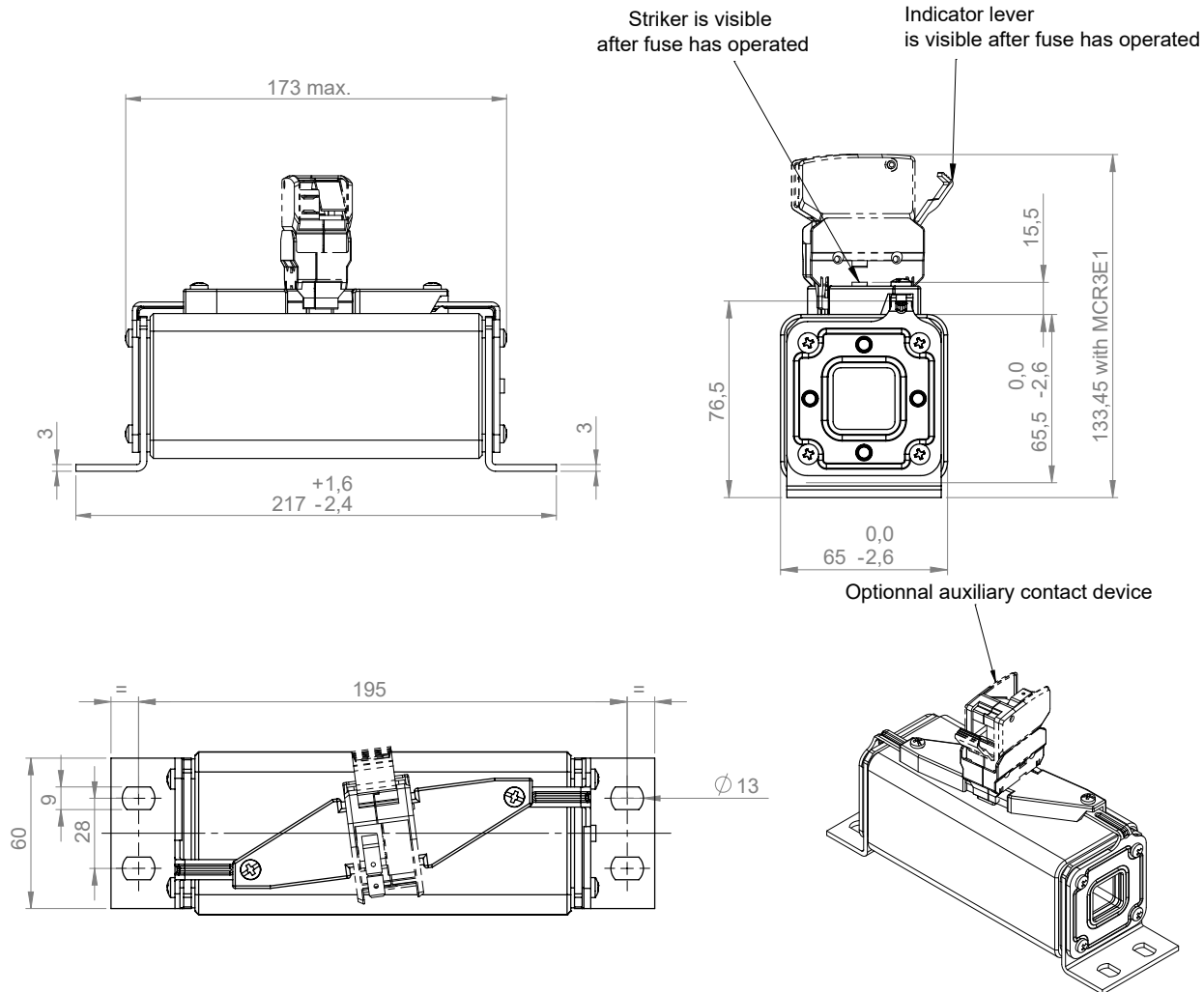


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DIMENSIONS

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Dimensions in mm

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