

Protistor® size 121 gR

750VDC (IEC)

SEMICONDUCTOR PROTECTION FUSES

SQUARE BODY HIGH-SPEED FUSE-LINKS DC PROTECTION



Mersen DC offers provide a very high performant protection for railway power and auxiliary 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 at more elevated temperature than other fuse type, have lower I^2t to minimize damage to protected components on short circuits, lower watts loss and longer life.

TECHNICAL DATA OVERVIEW

Rated Voltage DC (IEC)	750 VDC
Ampere Range (A)	200 ... 250 A
Speed/Characteristic	gR
Product Size	121

FEATURES & BENEFITS

- Multiple body sizes and terminals or blades combination
- Very low I^2t
- Extremely fast acting
- Eliminate all overloads
- Excellent cycling capability

APPLICATIONS

- Protection of inverters
- Protection of motor drives
- Protection of UPS systems
- Railway power and auxiliary circuits
- Similar 750VDC or less equipments

STANDARDS

- IEC 60269-4 Compliance

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PRODUCT RANGE



D121GC75V250EF

Size 121 gR 750VDC type EF, blade contacts with striker

Catalog number	Item number	Rated voltage DC (IEC)	Rated current I_n	Pre-arcing I^2t	Rated breaking capacity DC	Max. I^2t @900V, L/R=40ms, IP=50In	Max. I^2t @900V, L/R=40ms, IP=10In	Power dissipation at I_n	Power dissipation at 0.8 I_n	Weight
D121GC75V200EF	A086710	750 V	200 A	11.85 kA ² s	100 kA	150 kA ² s	755 kA ² s	37.5 W	20.5 W	1.02 kg
D121GC75V250EF	M085203	750 V	250 A	18.05 kA ² s	100 kA	250 kA ² s	1250 kA ² s	46.7 W	25.5 W	1.02 kg

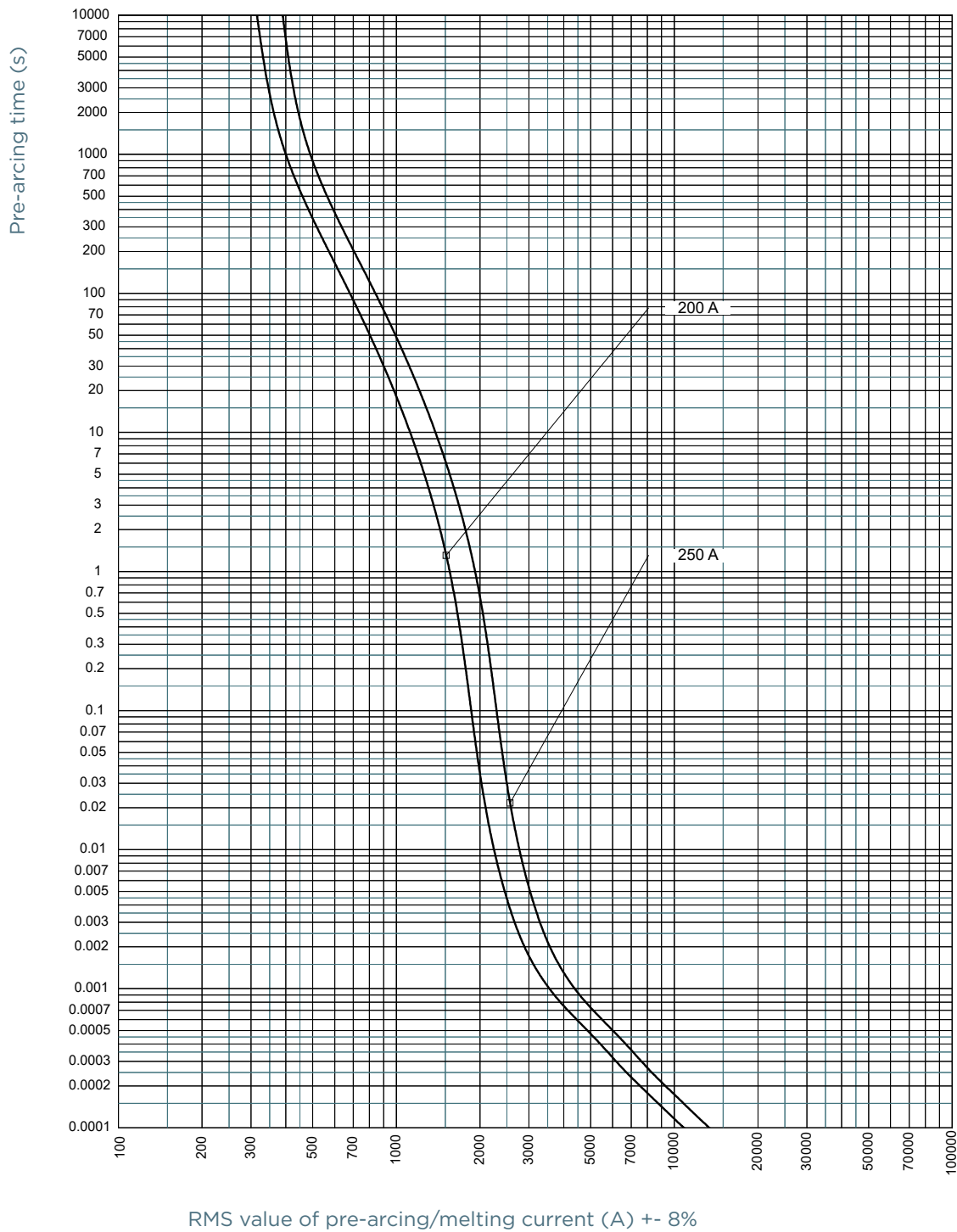


D121GC75V200TF

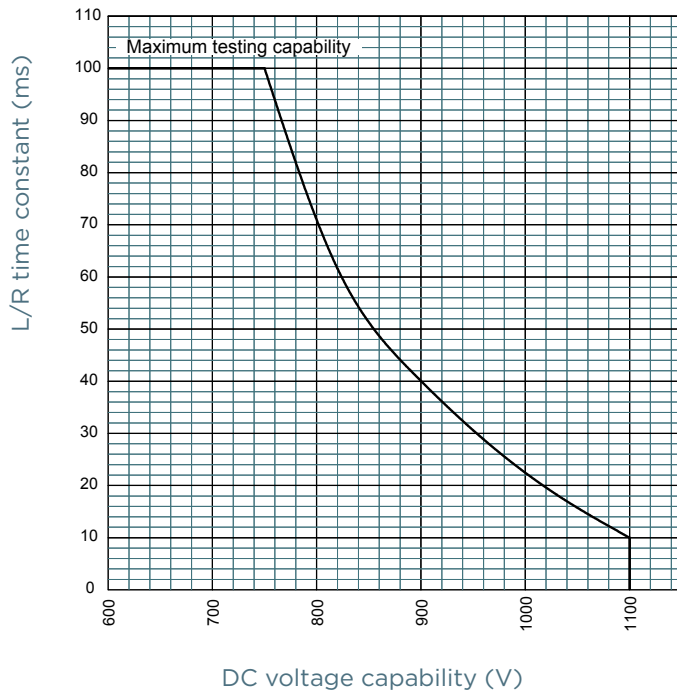
Size 121 gR 750VDC type TTF, threads terminals with striker

Catalog number	Item number	Rated voltage DC (IEC)	Rated current I_n	Pre-arcing I^2t	Rated breaking capacity DC	Max. I^2t @900V, L/R=40ms, IP=50In	Max. I^2t @900V, L/R=40ms, IP=10In	Power dissipation at I_n	Power dissipation at 0.8 I_n	Weight
D121GC75V200TF	N085250	750 V	200 A	11.85 kA ² s	100 kA	150 kA ² s	755 kA ² s	37.5 W	20.5 W	0.88 kg
D121GC75V250TF	Q085252	750 V	250 A	18.05 kA ² s	100 kA	250 kA ² s	1250 kA ² s	46.7 W	25.5 W	0.88 kg

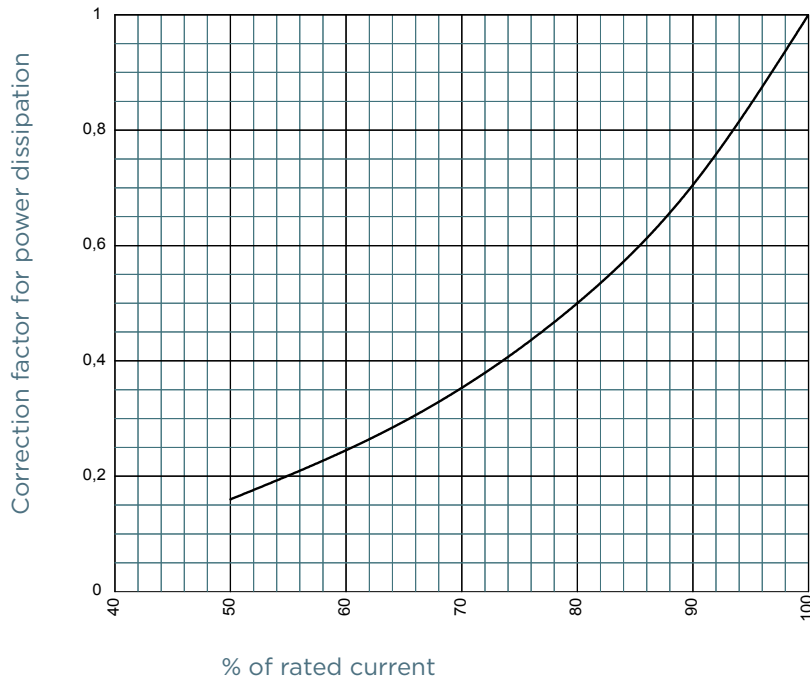
TIME CURRENT CHARACTERISTIC CURVES



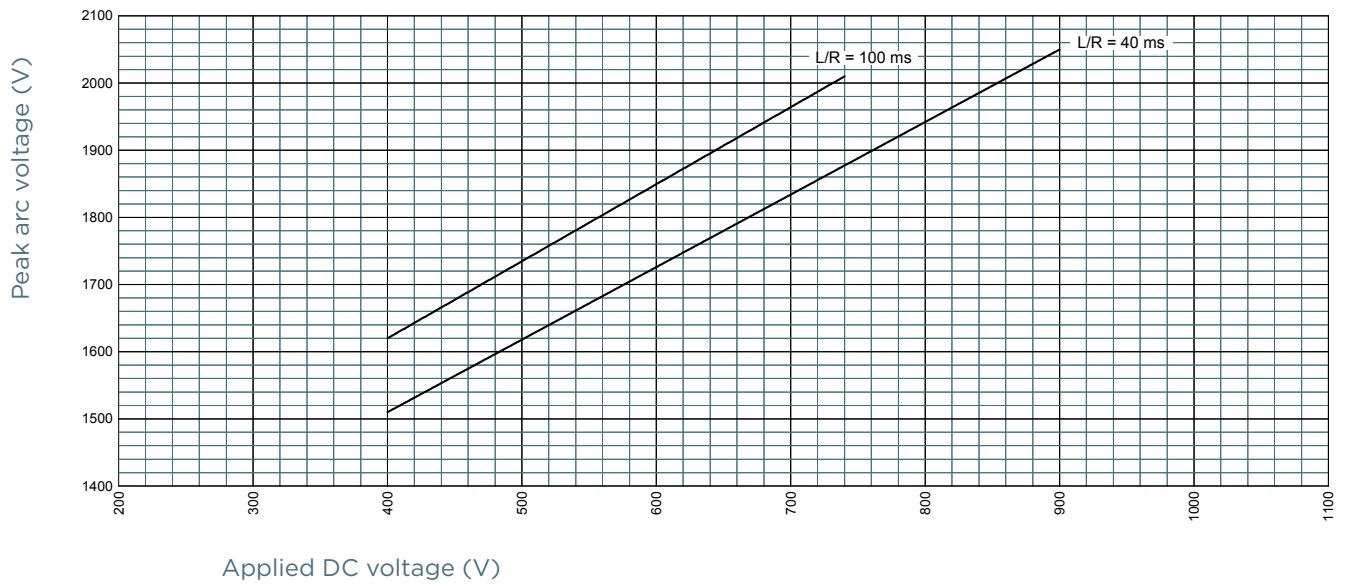
L/R TIME CONSTANT VS DC VOLTAGE CAPABILITY



POWER DISSIPATION

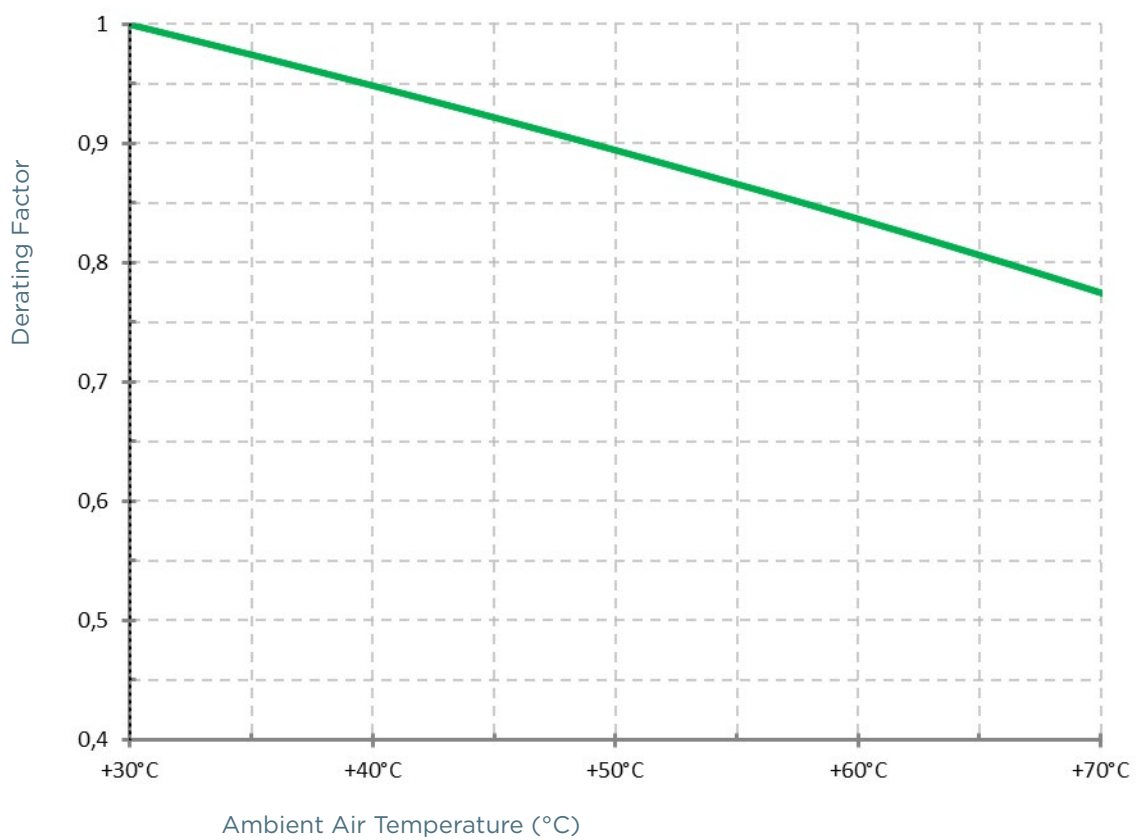


PEAK ARC VOLTAGE



TEMPERATURE DERATING

Derating factor of rated current according to ambient air temperature (°C)

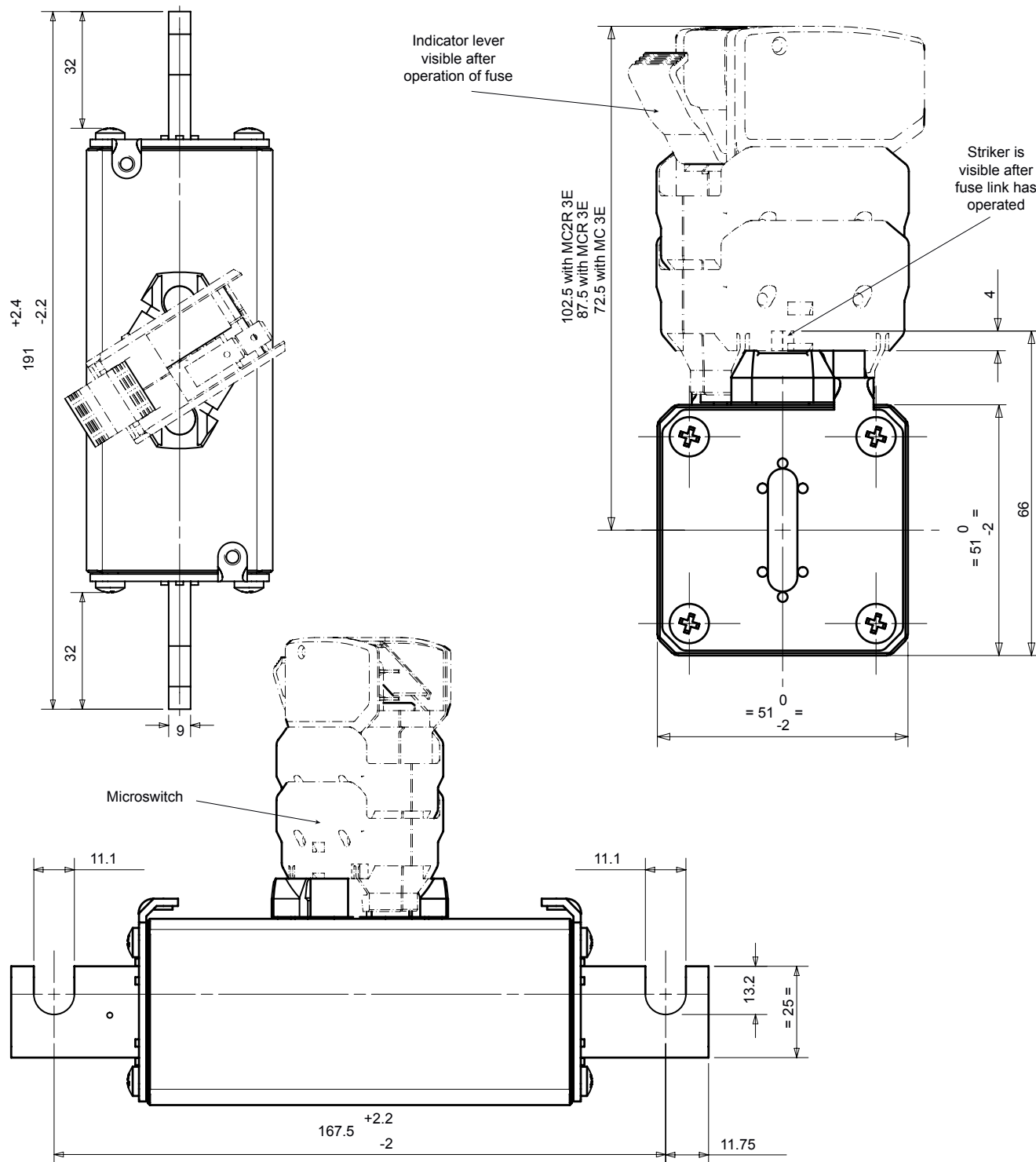


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DIMENSIONS

Size 121 gR blade contacts (EF)



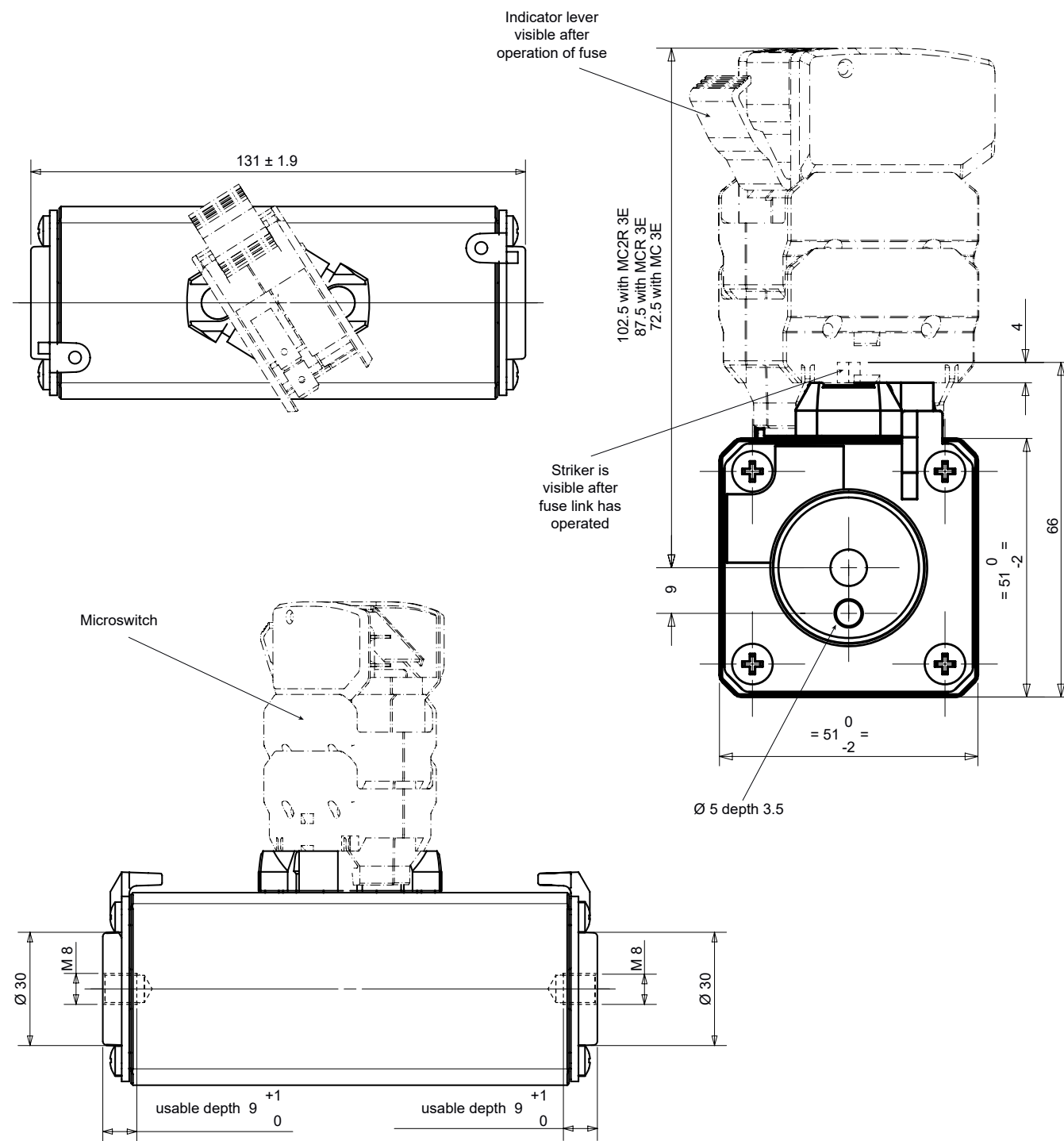
Dimensions in mm

Protistor® size 121 gR

750VDC (IEC)

DIMENSIONS

Size 121 gR threads terminals (TTF)



Dimensions in mm