

Protistor® size 122 gR

750VDC

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

Ampere Range (A)	250 ... 500 A
Speed/Characteristic	gR
Product Size	122
Rated Voltage DC (IEC)	750 VDC

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

PRODUCT RANGE



D122GC75V250EF

Size 122 gR 750VDC blade contacts (EF), 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
D122GC75V250EF	A087331	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	1.3 kg
D122GC75V315EF	B087332	750 V	315 A	30.06 kA ² s	100 kA	400 kA ² s	2000 kA ² s	58 W	31.5 W	1.3 kg
D122GC75V350EF	W221141	750 V	350 A	38.08 kA ² s	100 kA	500 A ² s	2500 A ² s	64.5 W	35 W	1.3 kg
D122GC75V400EF	L089388	750 V	400 A	50.94 kA ² s	100 kA	600 kA ² s	3100 kA ² s	74.5 W	40.5 W	1.3 kg
D122GD75V450EF	P220951	750 V	450 A	63.5 kA ² s	100 kA	800 kA ² s	4000 kA ² s	90 W	49 W	1.3 kg
D122GD75V500EF	Q220952	750 V	500 A	103 kA ² s	100 kA	1200 kA ² s	6200 kA ² s	95 W	52 W	1.3 kg

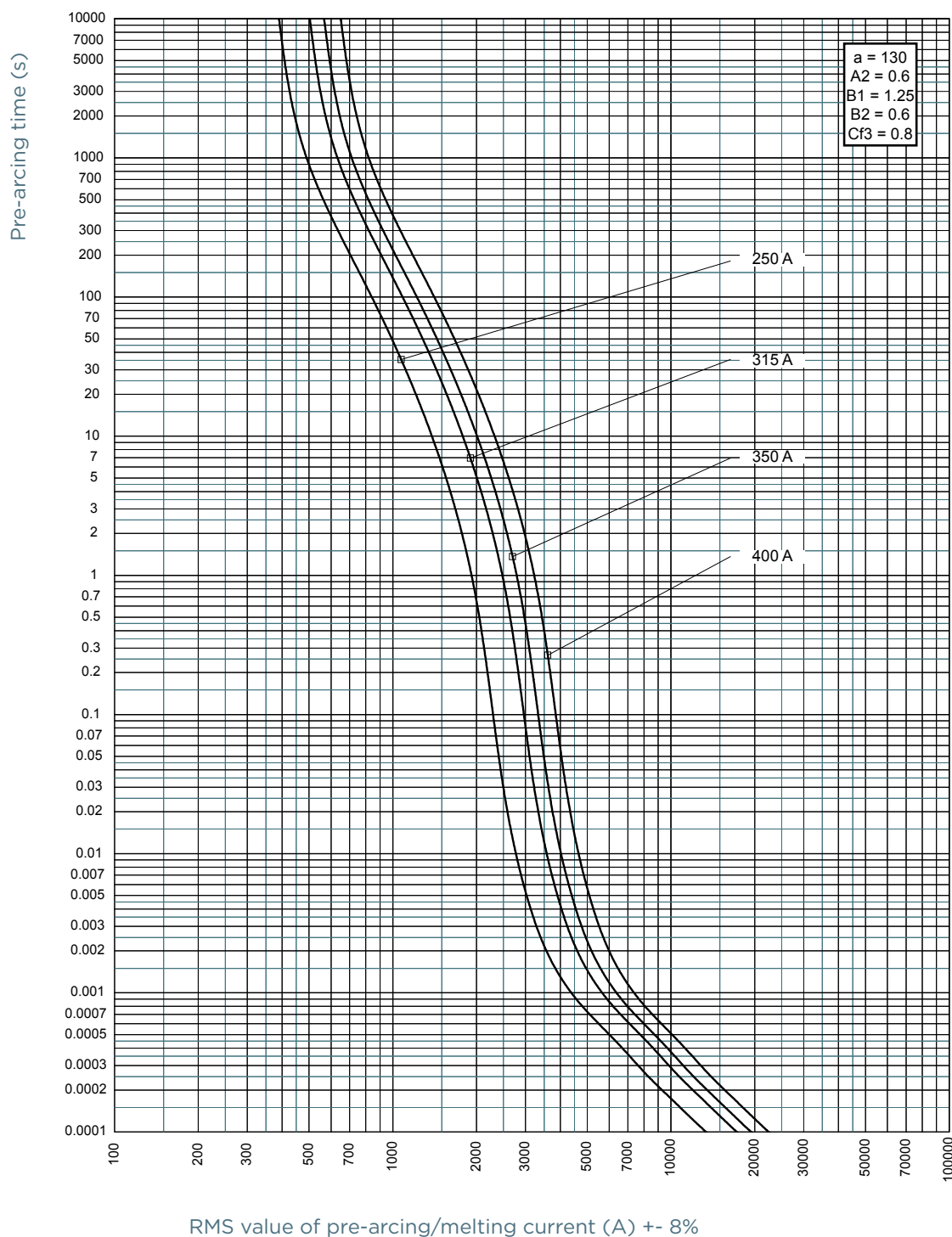


D122GC75V250TF

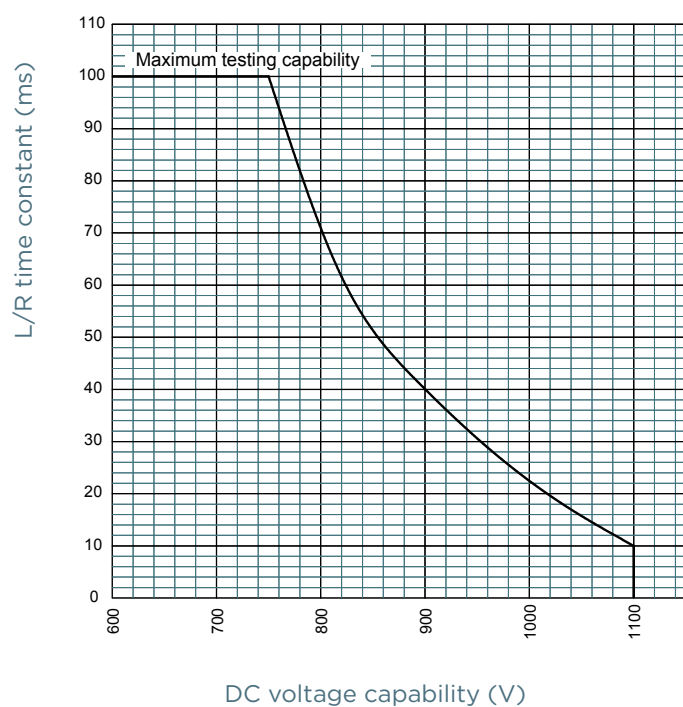
Size 122 gR 750VDC threads terminals (TTF), with striker

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
D122GC75V250TF	B090437	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	1.43 kg
D122GC75V315TF	M085249	750 V	315 A	30.06 kA ² s	100 kA	400 kA ² s	2000 kA ² s	58 W	31.5 W	1.43 kg
D122GC75V350TF	G220898	750 V	350 A	38.08 kA ² s	100 kA	500 kA ² s	2500 kA ² s	64.5 W	35 W	1.43 kg
D122GC75V400TF	C090438	750 V	400 A	50.94 kA ² s	100 kA	600 kA ² s	3100 kA ² s	74.5 W	40.5 W	1.43 kg
D122GD75V450TF	R220953	750 V	450 A	63.5 A ² s	100 kA	800 kA ² s	4000 kA ² s	90 W	49 W	1.43 kg
D122GD75V500TF	S220954	750 V	500 A	103 A ² s	100 kA	1200 kA ² s	6200 kA ² s	95 W	52 W	1.43 kg

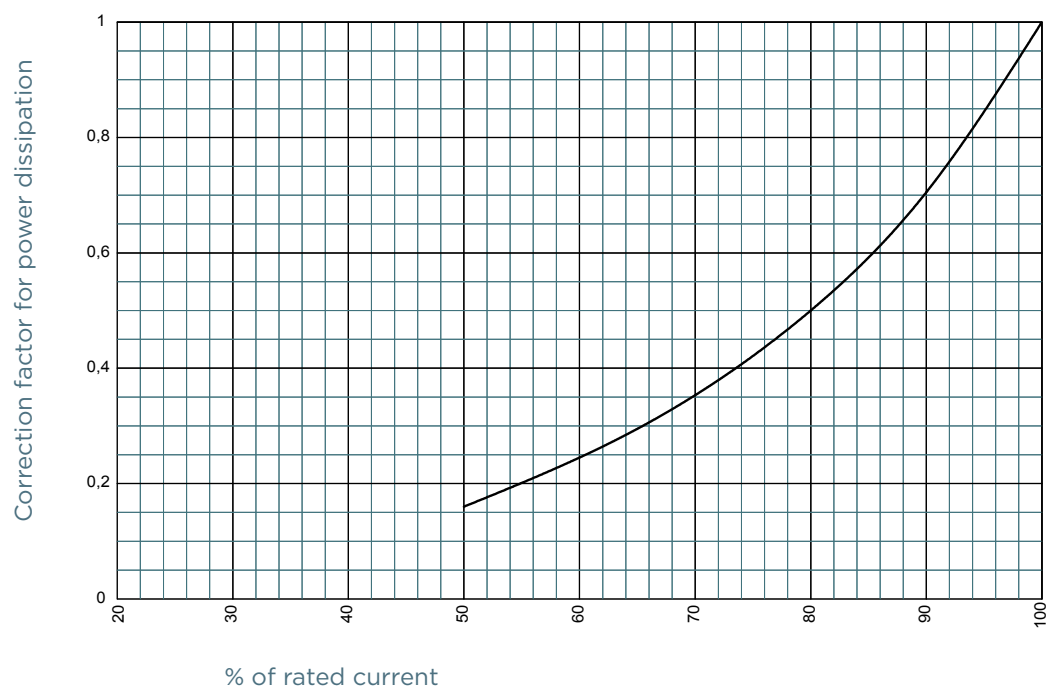
TIME CURRENT CHARACTERISTIC CURVES



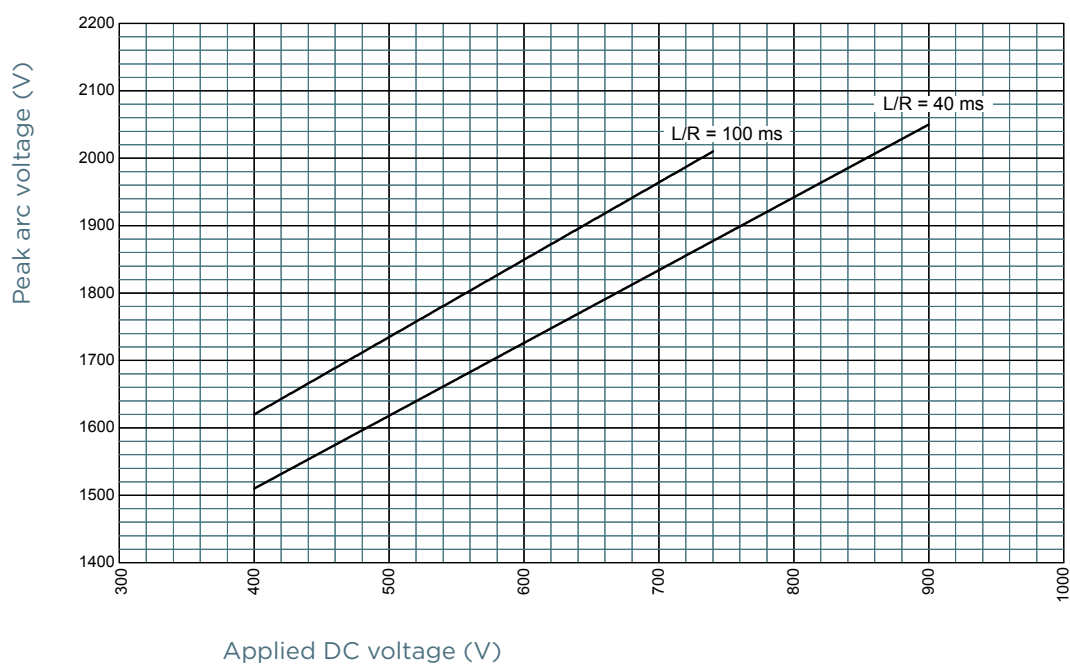
L/R TIME CONSTANT VS DC VOLTAGE CAPABILITY



POWER DISSIPATION

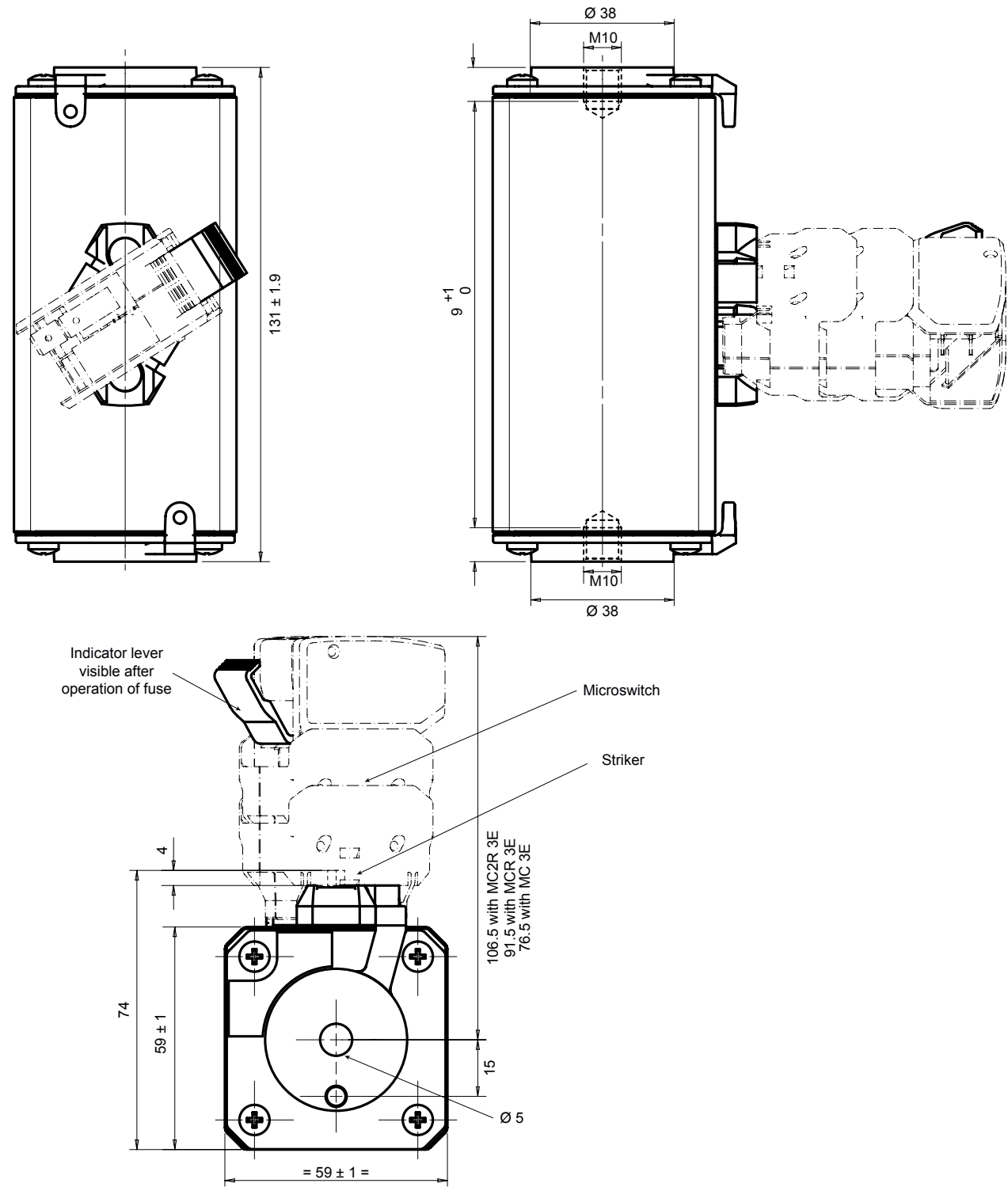


PEAK ARC VOLTAGE



DIMENSIONS

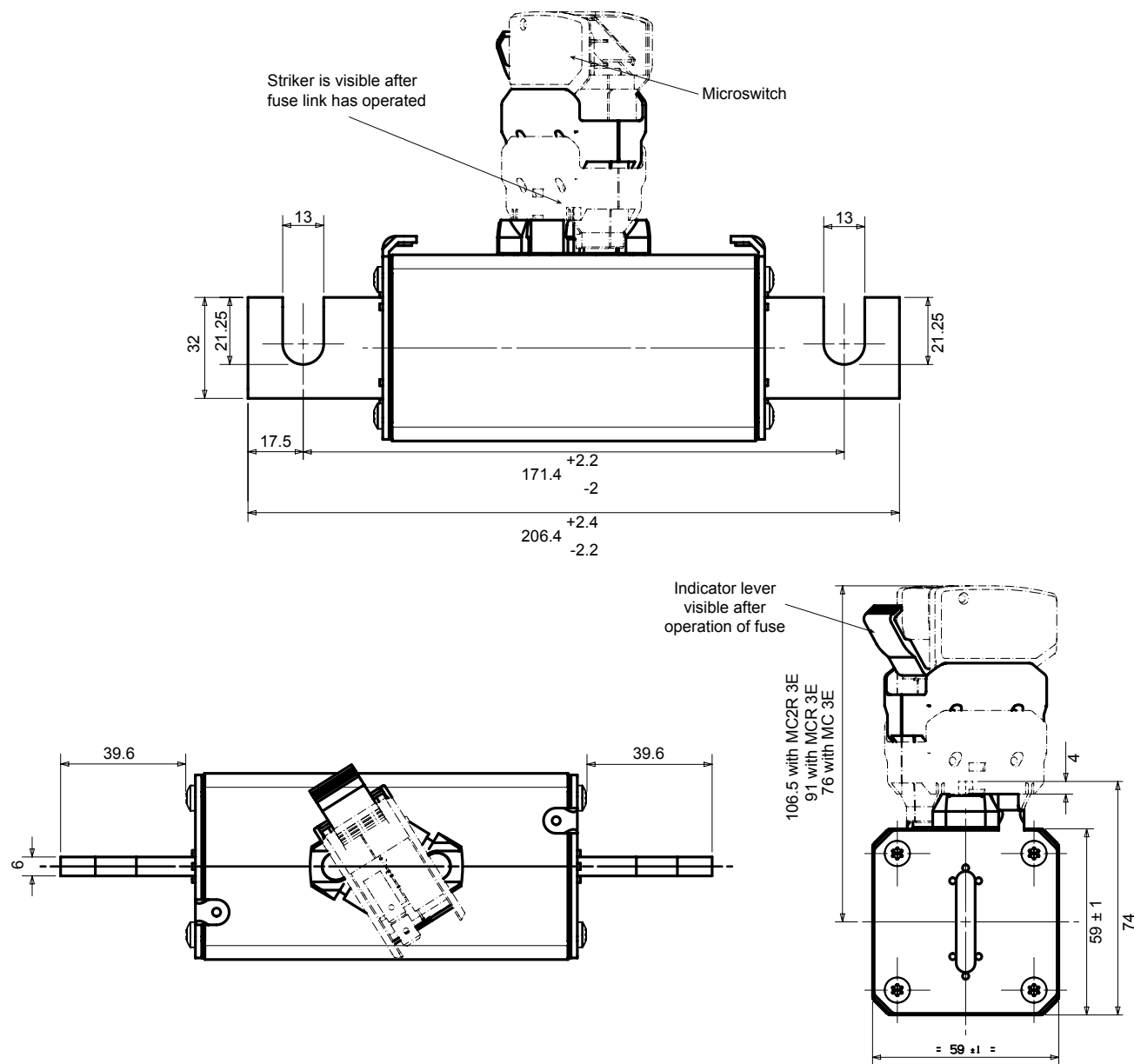
Size 122 gR threads terminals (TTF)



Dimensions in mm

DIMENSIONS

Size 122 gR blade contacts (EF)



Dimensions in mm