Protistor® size 123 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)	660 VDC and 750 VDC
Ampere Range (A)	500 ... 800 A
Speed/Characteristic	gR
Product Size	123

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

CE

PRODUCT RANGE

D123GB75V750TF

Size 123 gR 660VDC to 750VDC threads terminals (TTF), with striker

Catalog number	Item number	Rated voltage DC (IEC)	Rated current I_n	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
D123GC75V500TF	D090439	750 V	500 A	100 kA	1000 kA²s	5000 kA²s	93.5 W	51 W	1.98 kg
D123GB75V630TF	C098557	750 V	630 A	100 kA	1500 kA²s	7500 kA²s	-	74 W	1.98 kg
D123GB75V700TF	F090441	750 V	700 A	100 kA	2000 kA²s	10000 kA²s	-	82 W	1.98 kg
D123GB75V750TF	H220945	750 V	750 A	100 kA	2000 kA²s	10000 kA²s	-	82 W	1.98 kg
D123GB66V800TF	J220946	660 V	800 A	100 kA	2600 kA²s	12150 kA²s	-	90 W	1.98 kg

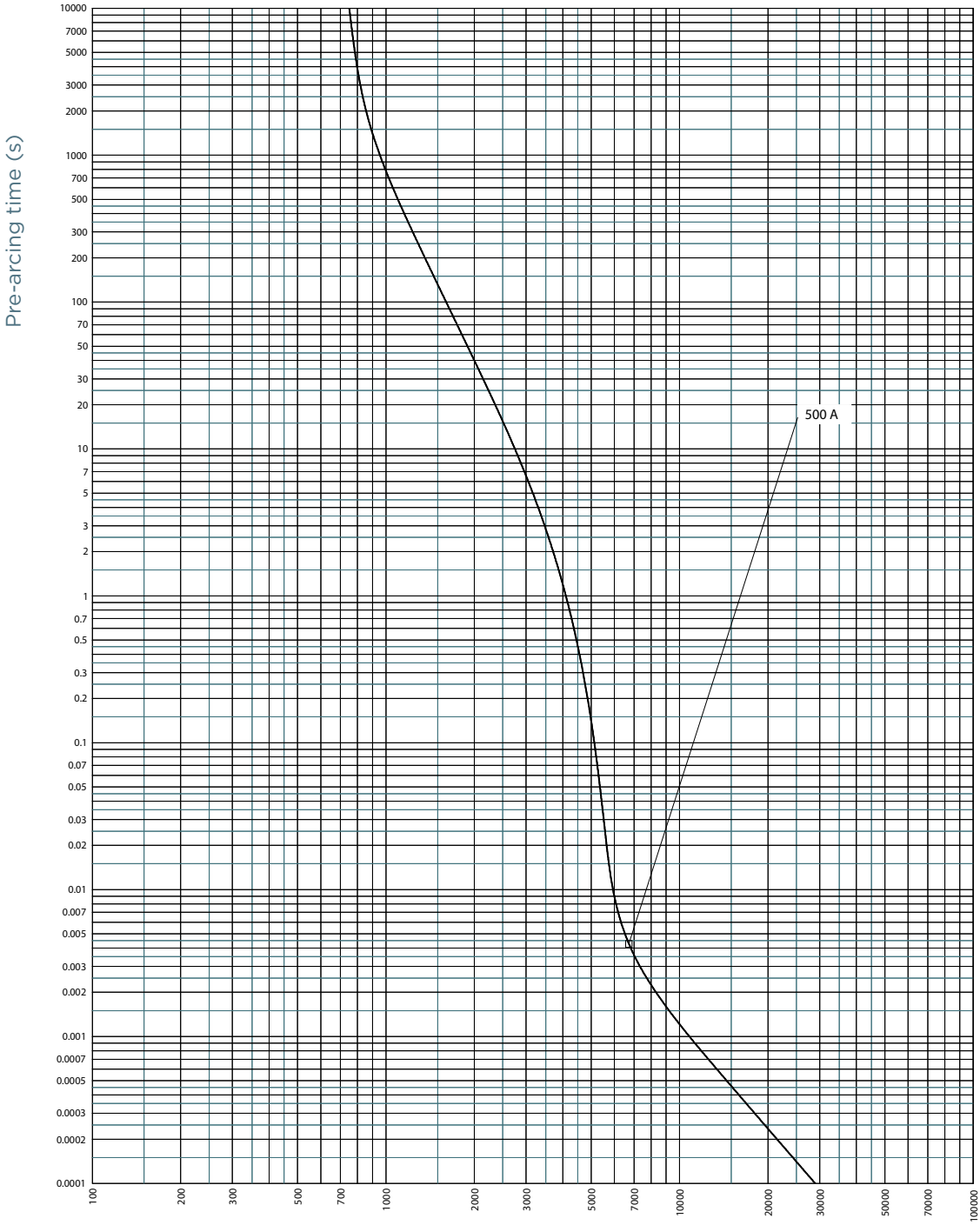
D123GB75V630EF

Size 123 gR 660VDC to 750VDC blade contacts (EF) with striker

Catalog number	Item number	Rated voltage DC (IEC)	Rated current I_n	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
D123GC75V500EF	M089389	750 V	500 A	100 kA	2000 kA²s	10000 kA²s	93.5 W	51 W	2.1 kg
D123GB75V630EF	B098556	750 V	630 A	100 kA	1500 kA²s	7500 kA²s	-	74 W	2.1 kg
D123GB75V700EF	Q078191	750 V	700 A	100 kA	2000 kA²s	10000 kA²s	-	82 W	2.1 kg
D123GB66V800EF	G220944	660 V	800 A	100 kA	2600 kA²s	12150 kA²s	-	90 W	2.1 kg

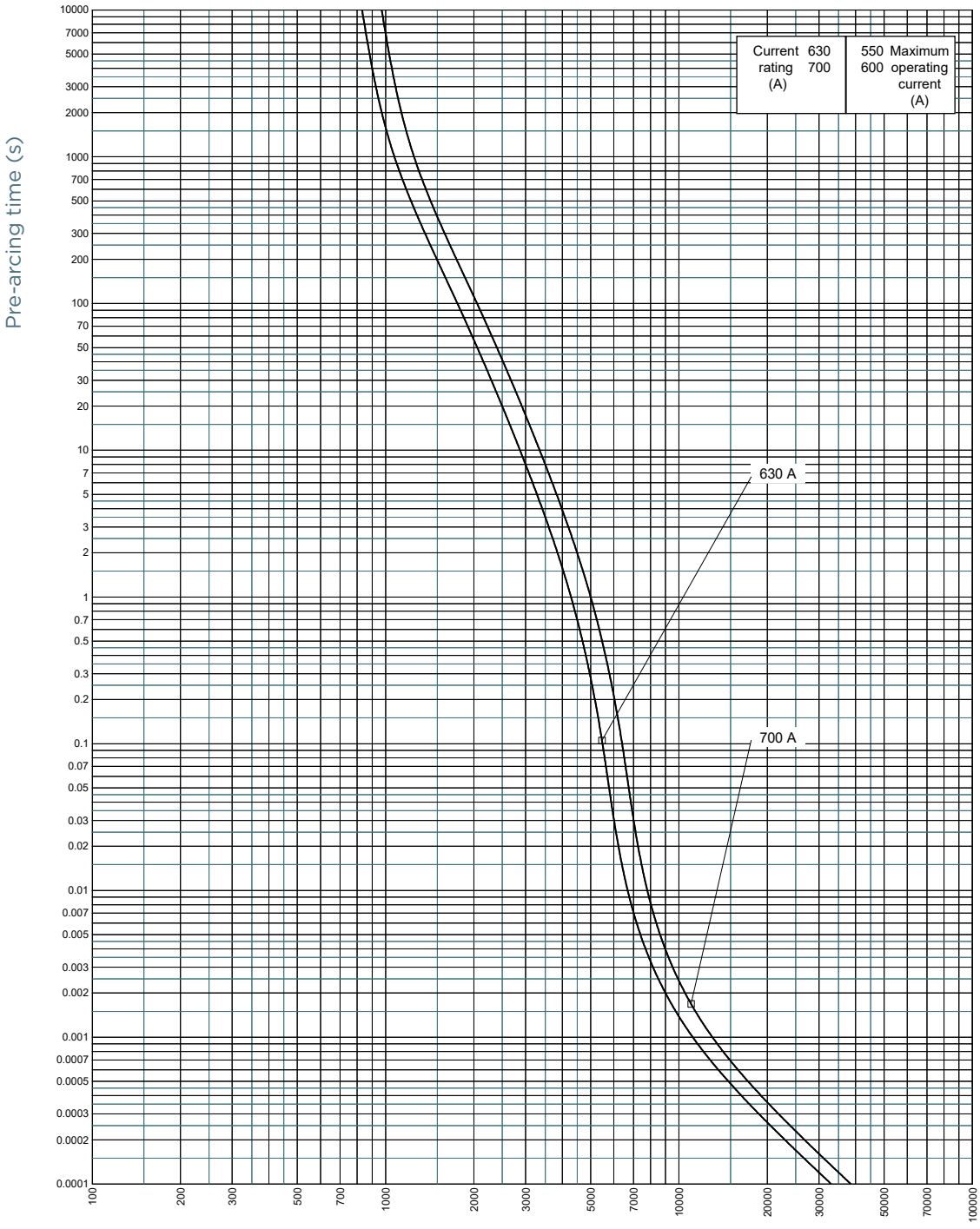
TIME CURRENT CHARACTERISTIC CURVES

Size 123 gR 500A



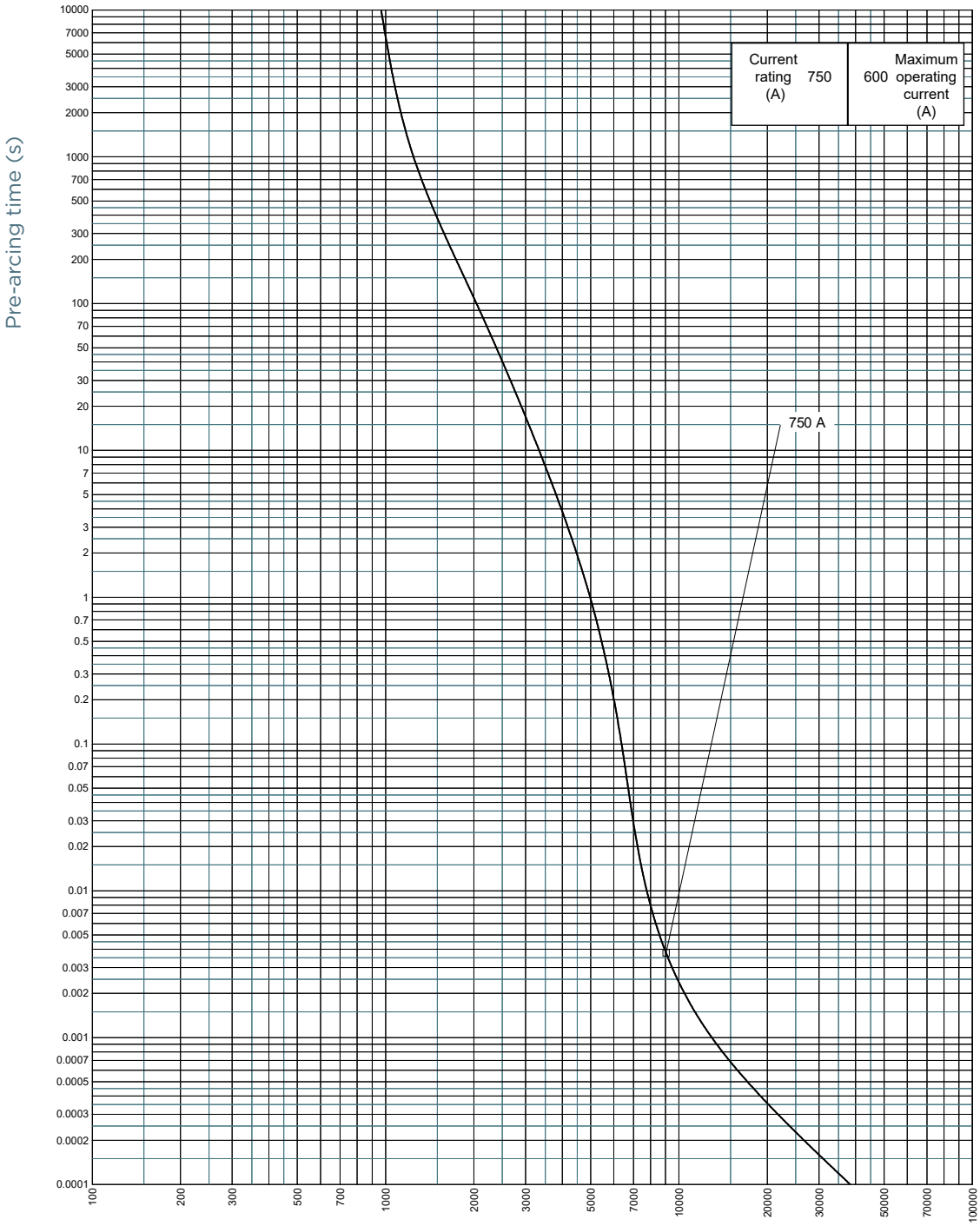
TIME CURRENT CHARACTERISTIC CURVES

Size 123 gR 630-700A



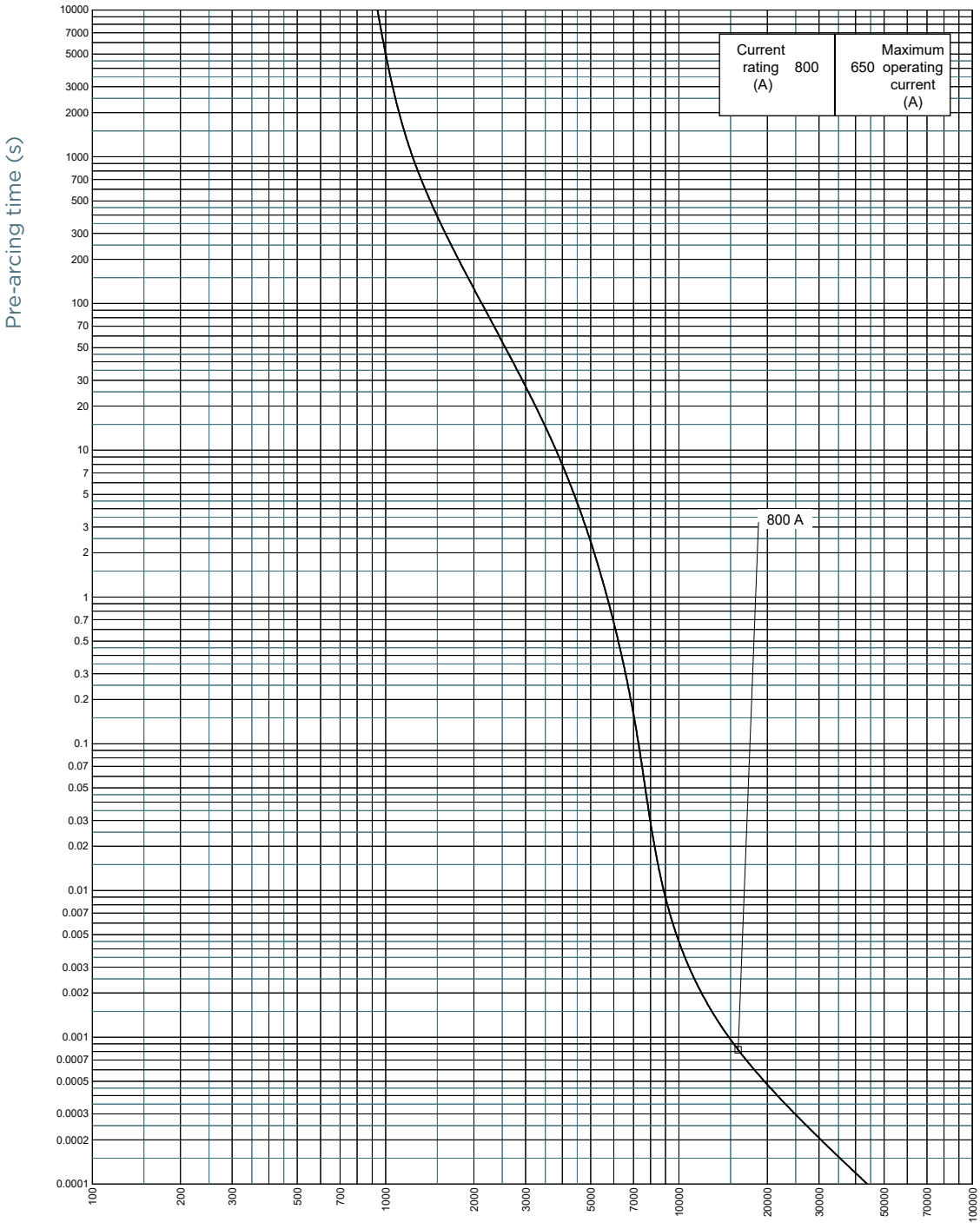
TIME CURRENT CHARACTERISTIC CURVES

Size 123 gR 750A



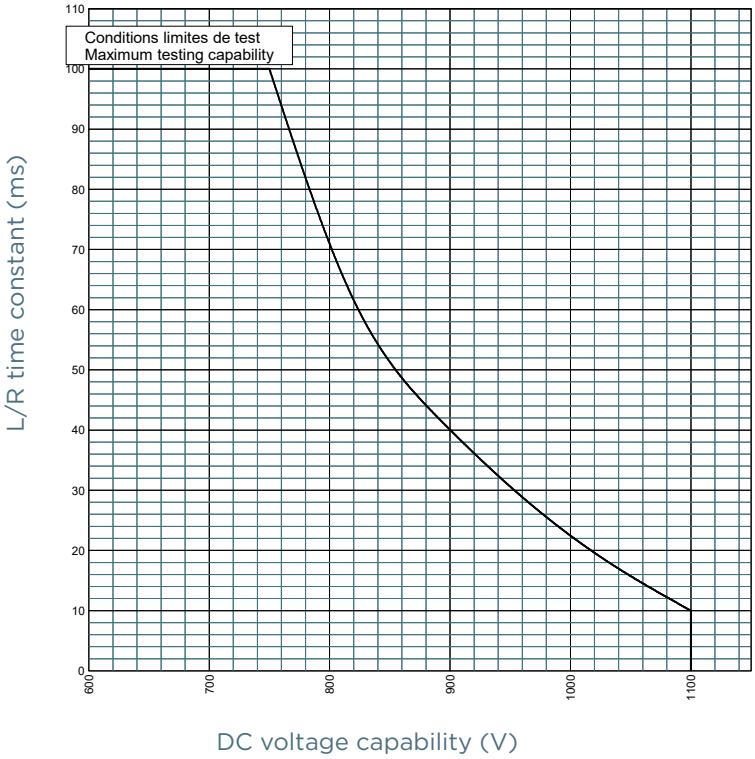
TIME CURRENT CHARACTERISTIC CURVES

Size 123 gR 800A

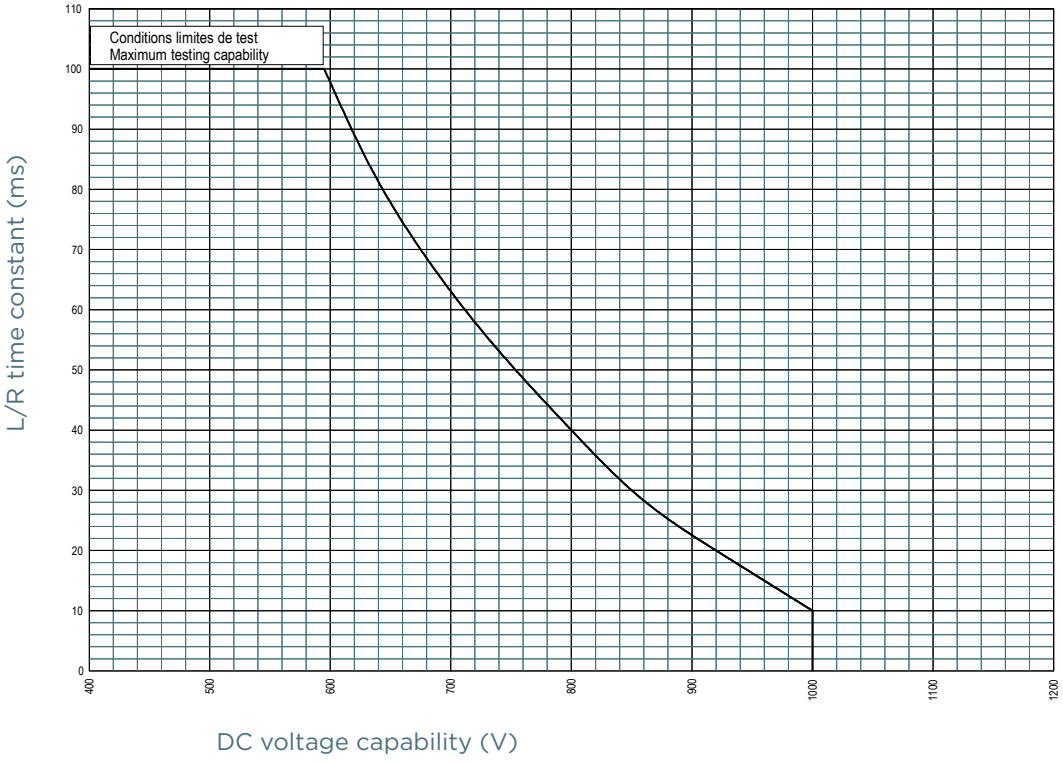


L/R TIME CONSTANT VS DC VOLTAGE CAPABILITY

Size 123 gR 500A

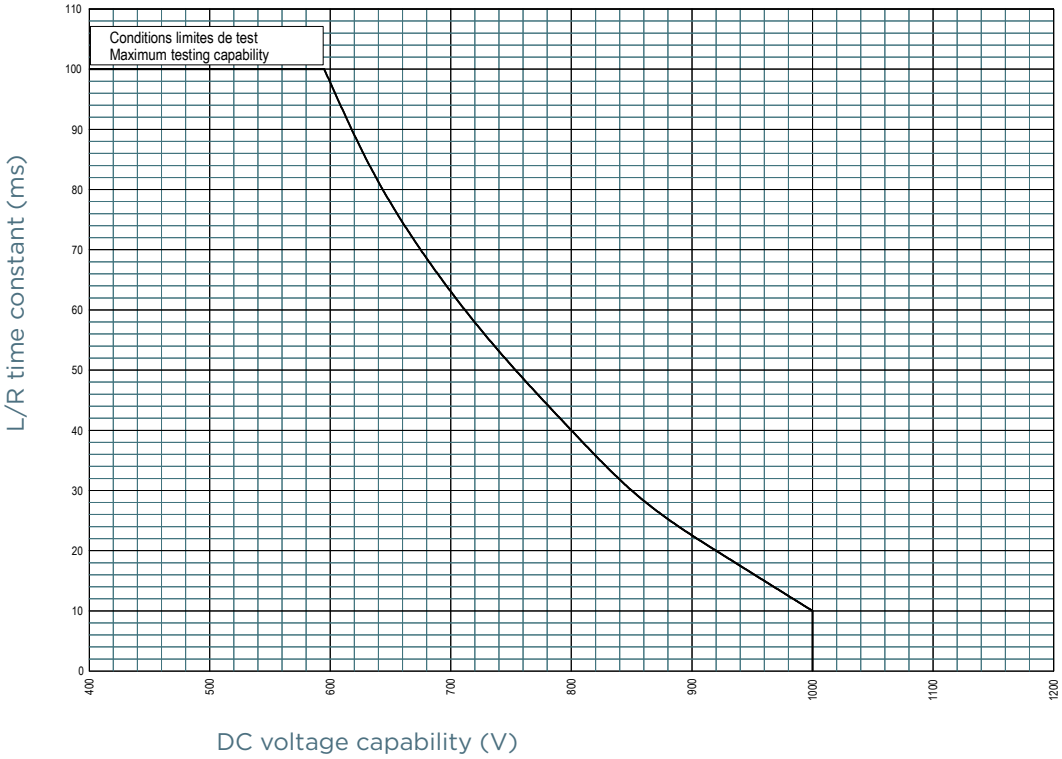


Size 123 gR 630A - 700A

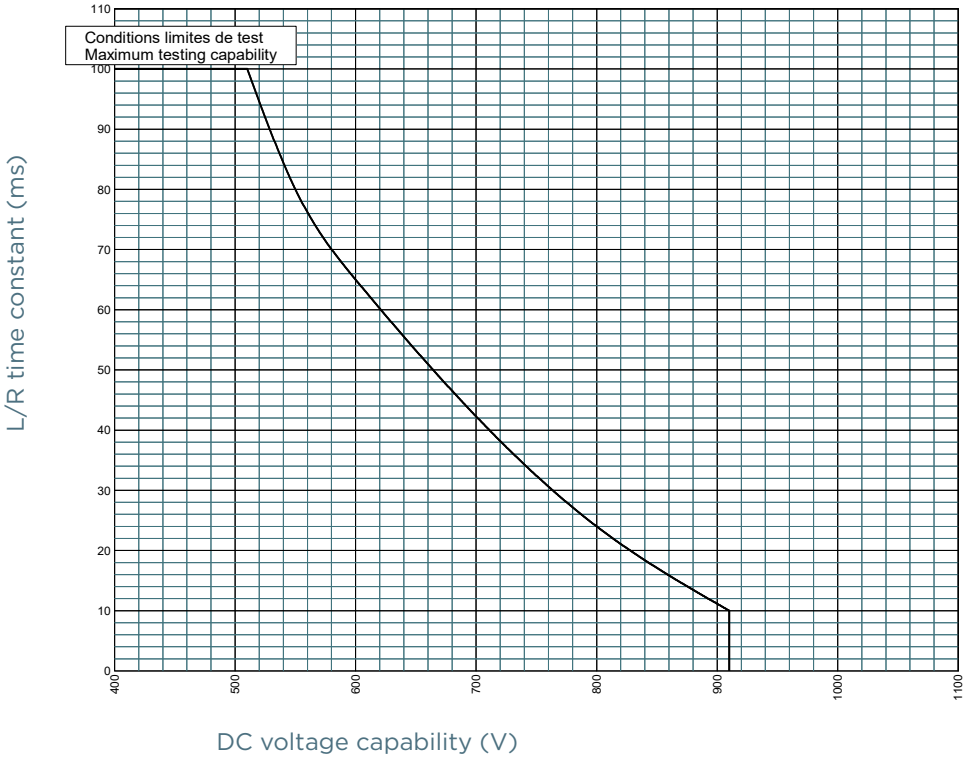


L/R TIME CONSTANT VS DC VOLTAGE CAPABILITY

Size 123 gR 750A

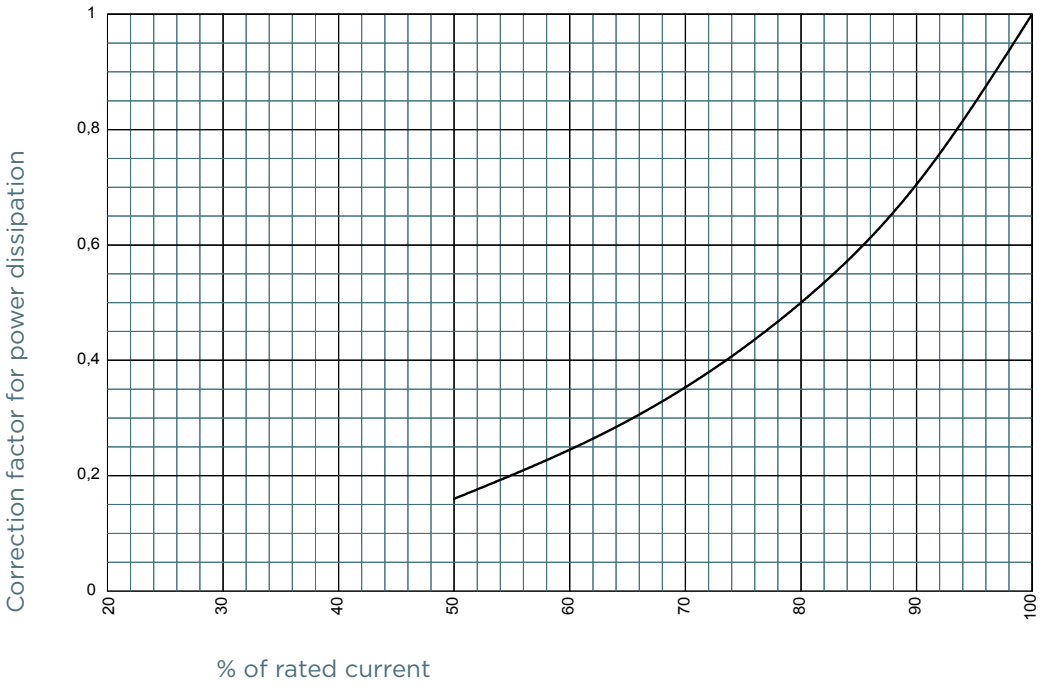


Size 123 gR 800A



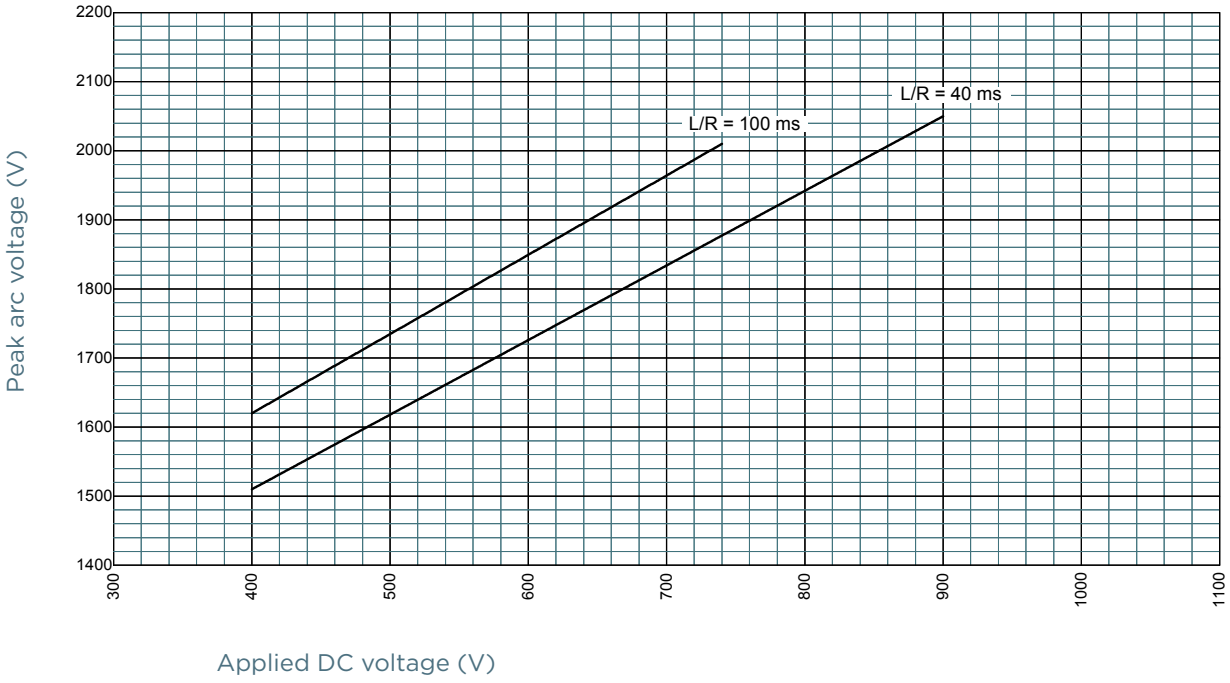
POWER DISSIPATION

Size 123 gR 500A, 630A, 700A, 750A, 800A



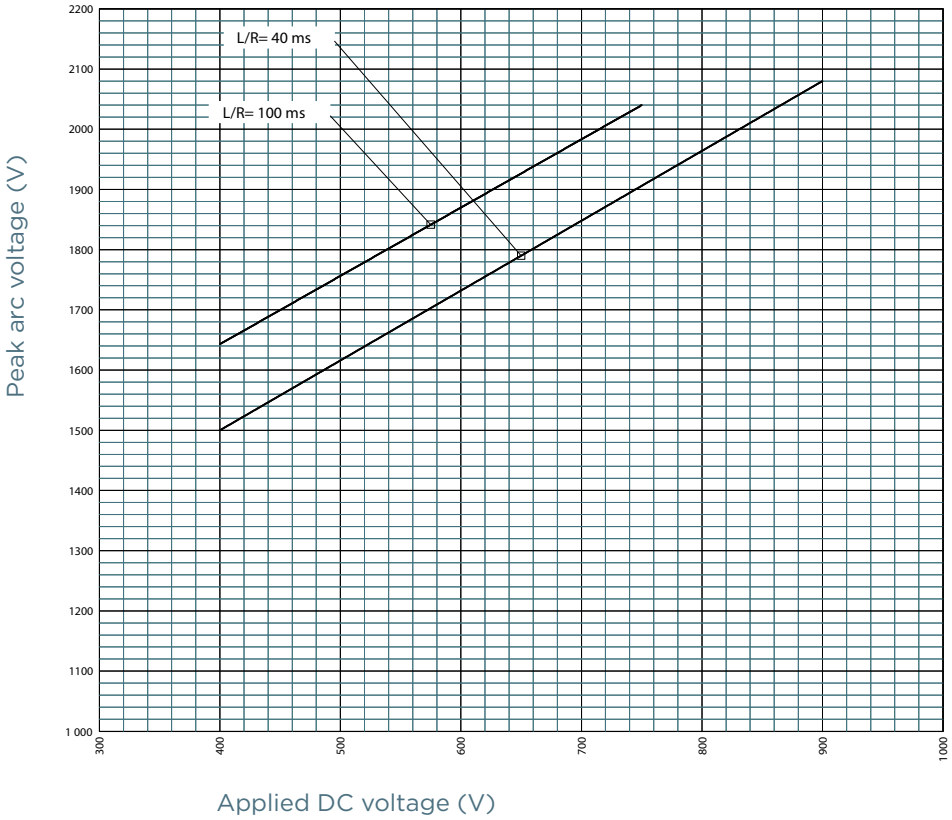
PEAK ARC VOLTAGE

Size 123 gR 500A



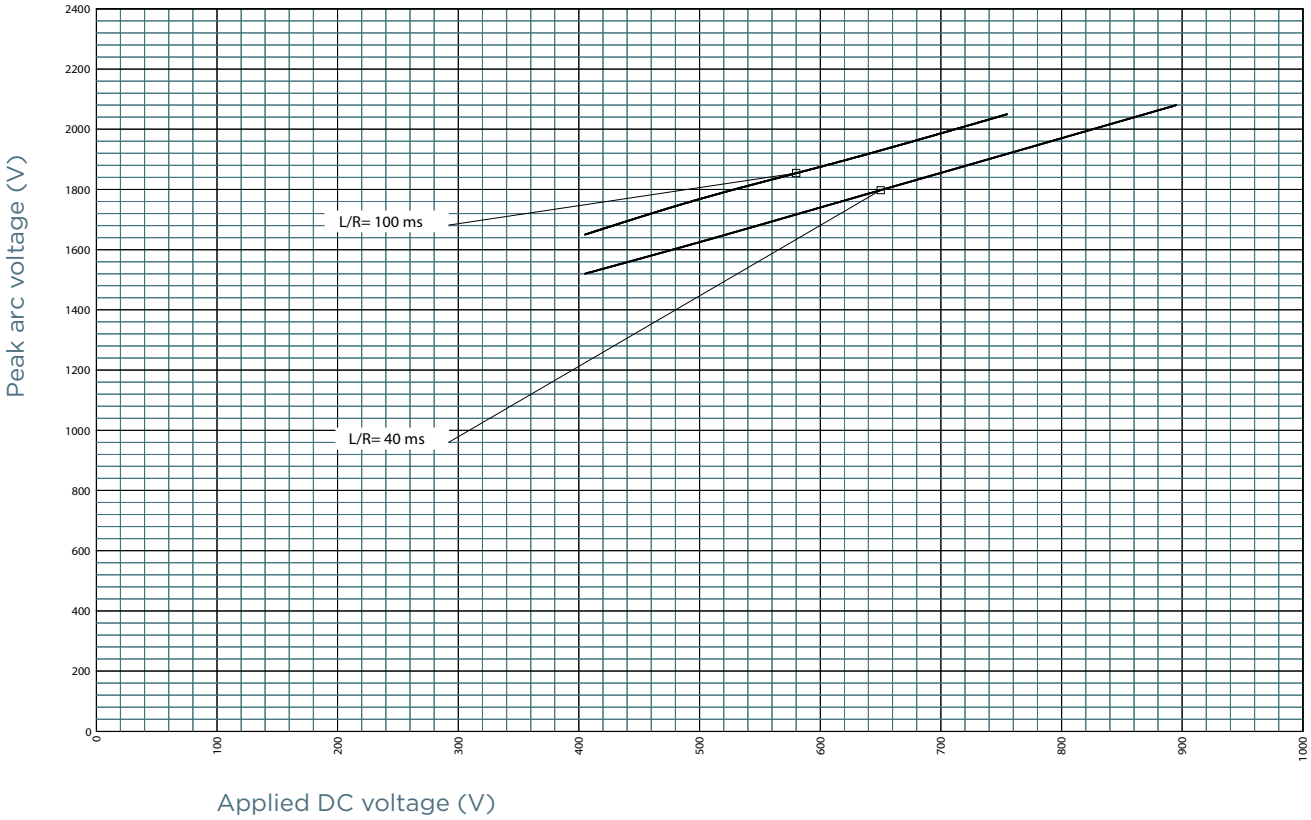
PEAK ARC VOLTAGE

Size 123 gR 630A - 700A



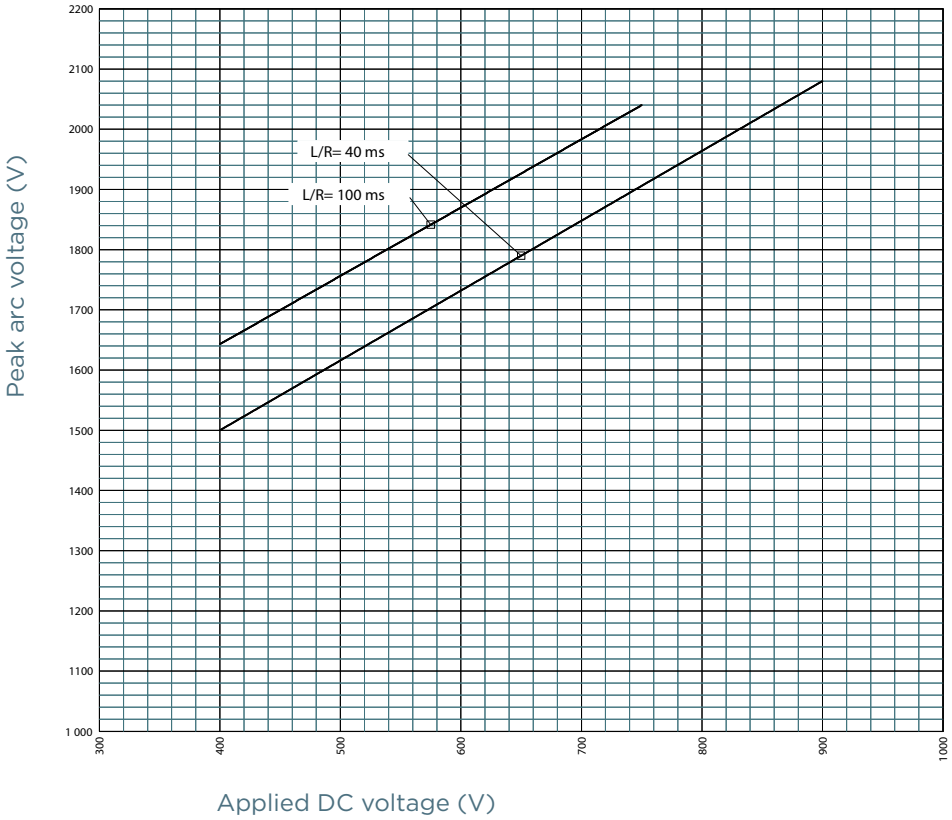
PEAK ARC VOLTAGE

Size 123 gR 750A



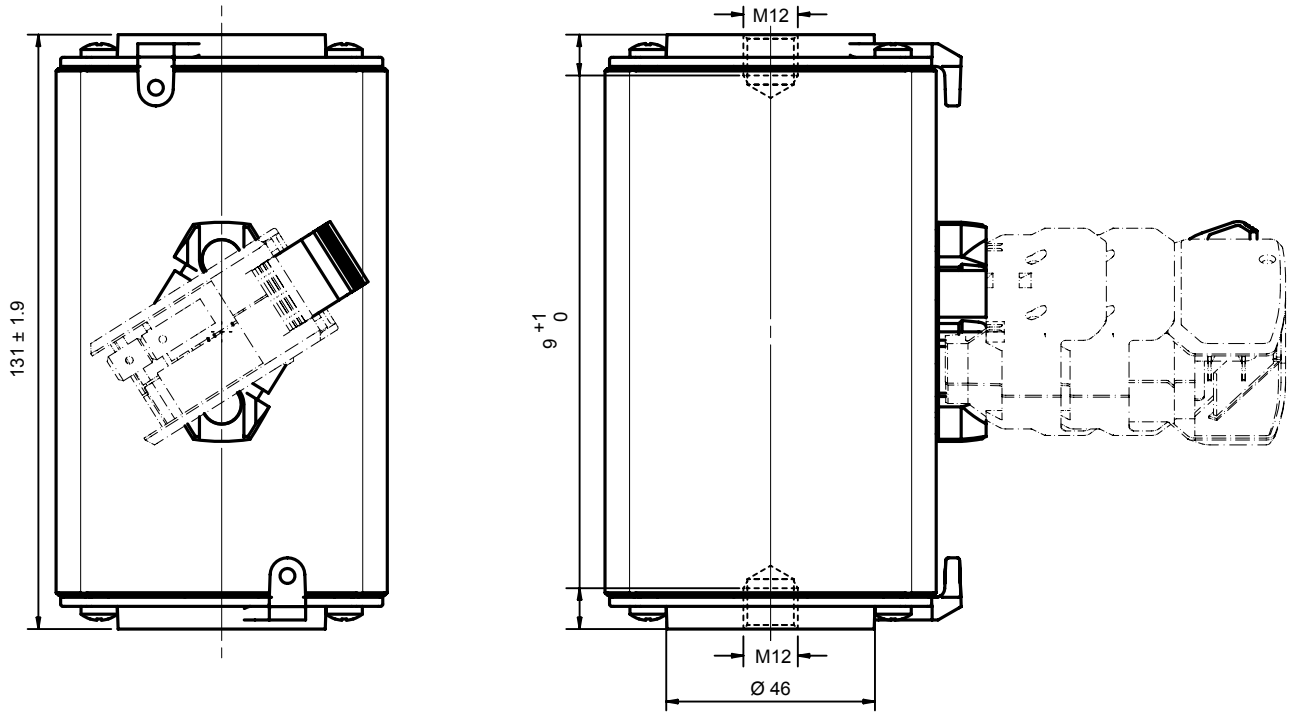
PEAK ARC VOLTAGE

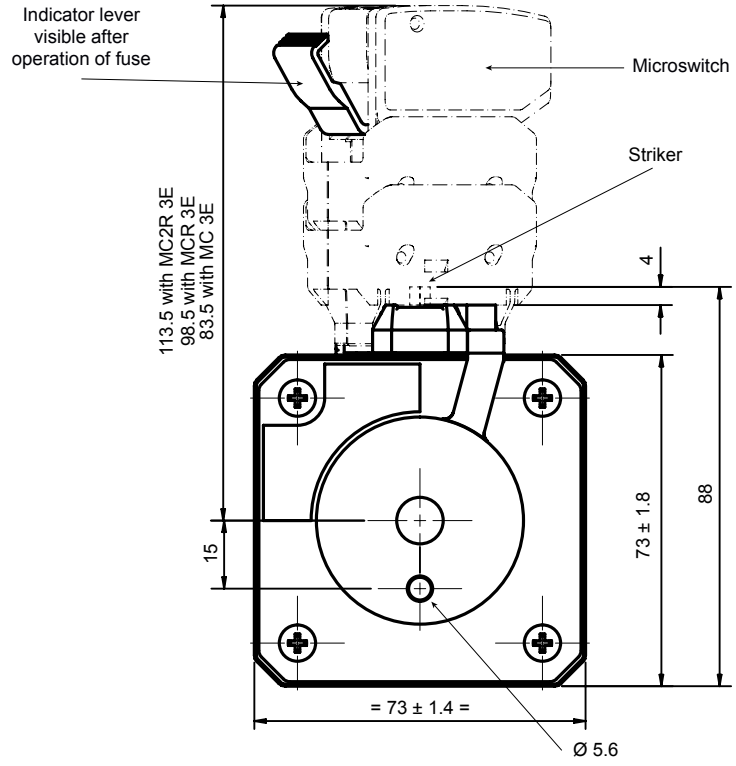
Size 123 gR 800A



DIMENSIONS

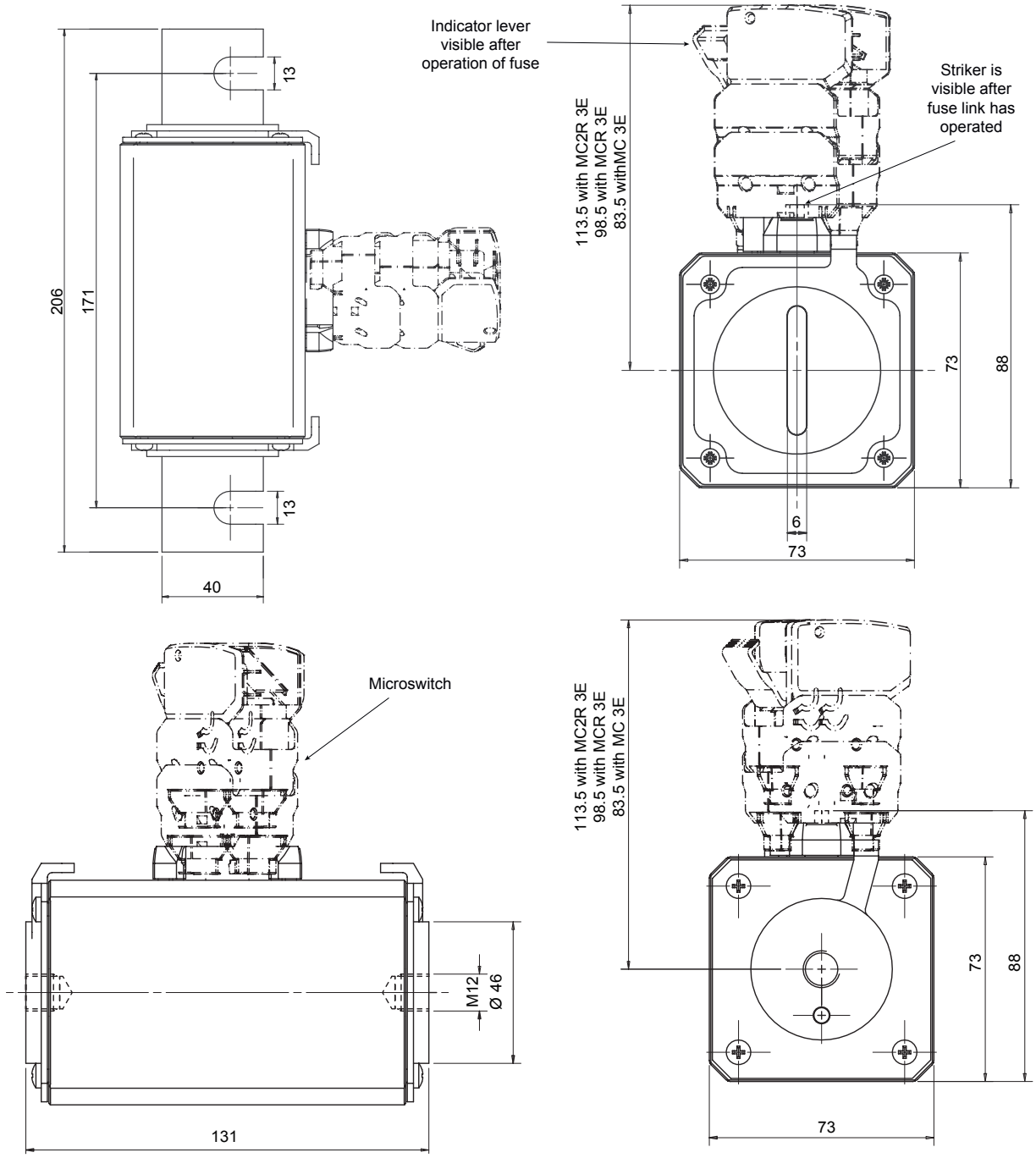
Size 123gR





Dimensions in mm

DIMENSIONS



Dimensions in mm