

Protistor® size 10x38 aR (URB/D/L)

500 to 600VAC

SEMICONDUCTOR PROTECTION FUSES

IEC HIGH-SPEED CYLINDRICAL FUSE-LINKS AC PROTECTION



Mersen's Standard Cylindrical fuses provide an extremely high interrupting ratings offering power semiconductor applications the ultimate in electrical protection.

The Protistor® IEC semiconductor fuses offer is comprised of an aR range. The 10x38 aR cylindrical range is a high performance, ultra-fast acting fuse for superior short-circuit protection only.

FEATURES & BENEFITS

- International 10x38mm (1-1/2" x 13/32") for worldwide acceptance
- Extremely fast acting
- Current limiting
- Extremely low I²t for improved semiconductor protection
- High breaking capacity
- Excellent cycling capability

APPLICATIONS

- Small inverters
- UPS systems
- Motor drives

STANDARDS

- IEC 60269-4 compliant

TECHNICAL DATA OVERVIEW

Voltage Range DC	500V-600VAC
Ampere Range (A)	0,1...30A
Speed/Characteristic	aR
Product Size	10x38
Package	10

Protistor® size 10x38 aR (URB/D/L)

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PRODUCT RANGE



A060UD0.500T13

Size 10x38 aR 600VAC without striker

Catalog number	Item number	Rated voltage AC	Rated current I_n	Clearing I^2t @Rated Voltage	Watt Loss @0,8 I_n	Watt Loss @ I_n	Breaking Capacity	Weight
A060UD0.100T13	H077632	600 V	0,1 A	0,0012 A²s	0,23 W	0,4 W	200 kA	8 g
A060UD0.125T13	J077633	600 V	0,125 A	0,0023 A²s	0,25 W	0,44 W	200 kA	8 g
A060UD0.160T13	K077634	600 V	0,16 A	0,0052 A²s	0,28 W	0,48 W	200 kA	8 g
A060UD0.315T13	N077637	600 V	0,315 A	0,033 A²s	0,42 W	0,73 W	200 kA	8 g
A060UD0.400T13	P077638	600 V	0,4 A	0,056 A²s	0,46 W	0,8 W	200 kA	8 g
A060UD0.500T13	Q077639	600 V	0,5 A	0,1 A²s	0,46 W	0,8 W	200 kA	8 g
A060UD0.630T13	R077640	600 V	0,63 A	0,18 A²s	0,52 W	0,9 W	200 kA	8 g



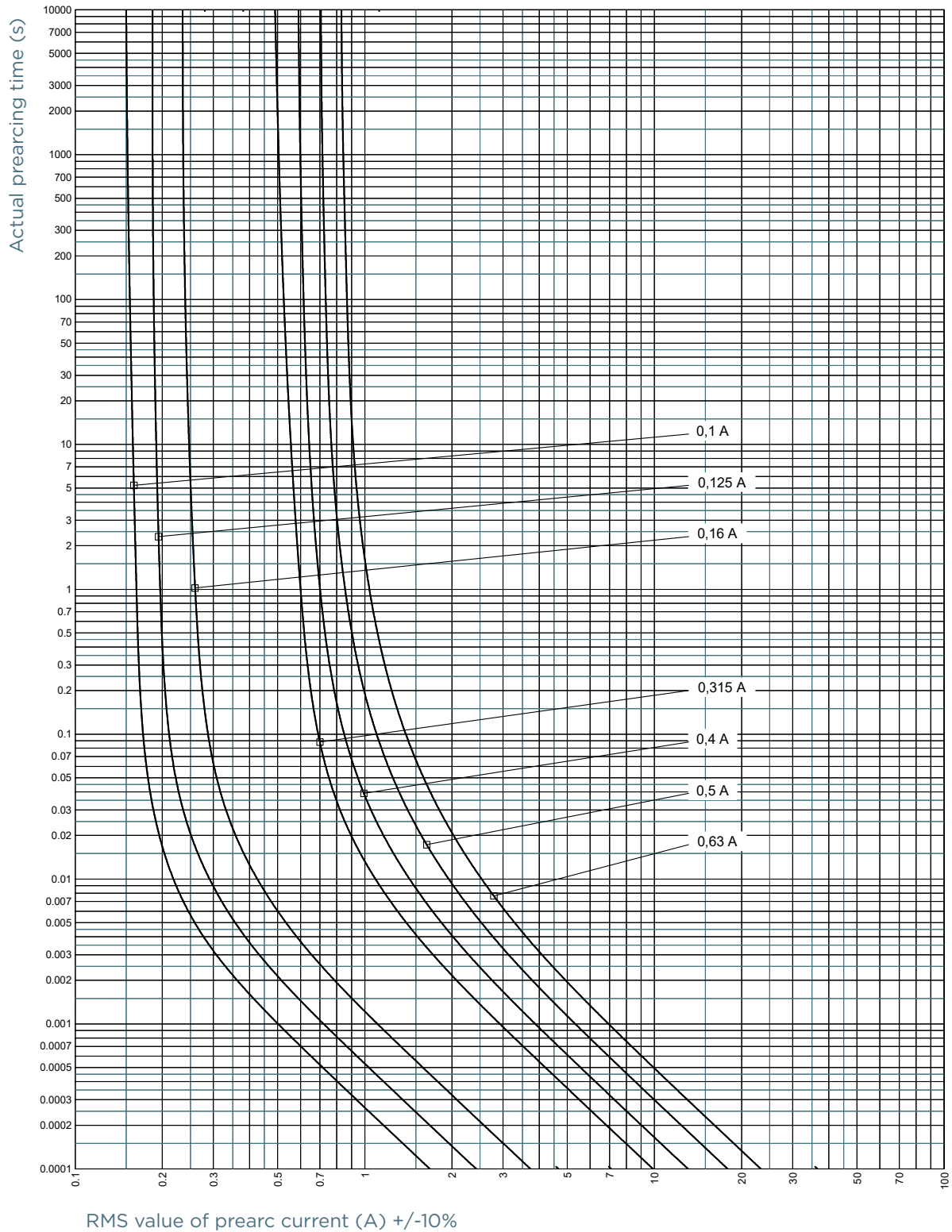
A050URD1T13I

Size 10x38 aR 500VAC with striker

Catalog number	Item number	Rated voltage AC	Rated current I_n	Pre-arcing I^2t	Clearing I^2t @Rated Voltage	Watt Loss @0,8 I_n	Watt Loss @ I_n	Breaking Capacity	Weight
A050URD1T13I	P076925	500 V	1 A	0,4 A²s	3,6 A²s	0,4 W	0,7 W	50 kA	9,2 g
A050URD1.2T13I	H076597	500 V	1,25 A	0,13 A²s	1,7 A²s	0,52 W	0,91 W	50 kA	9,2 g
A050URD1.6T13I	G076596	500 V	1,6 A	0,31 A²s	2,2 A²s	0,58 W	1 W	50 kA	9,2 g
A050URD2T13I	Q076926	500 V	2 A	0,65 A²s	3,1 A²s	0,63 W	1,1 W	50 kA	9,2 g
A050URD2.5T13I	F076595	500 V	2,5 A	1,65 A²s	5,9 A²s	0,63 W	1,1 W	50 kA	9,2 g
A050URD3T13I	R076927	500 V	3,15 A	2,8 A²s	9 A²s	0,86 W	1,5 W	50 kA	9,2 g
A050URD4T13I	S076928	500 V	4 A	5,3 A²s	16 A²s	1,1 W	1,8 W	50 kA	9,2 g
A050URD5T13I	T076929	500 V	5 A	12,7 A²s	36 A²s	1,1 W	1,8 W	50 kA	9,2 g
A050URB6T13I	V076930	500 V	6 A	1,3 A²s	47 A²s	0,73 W	1,35 W	50 kA	9,2 g
A050URB8T13I	W076931	500 V	8 A	2,3 A²s	80 A²s	0,83 W	1,55 W	50 kA	9,2 g
A050URB10T13I	X076932	500 V	10 A	3,6 A²s	110 A²s	1,1 W	1,9 W	50 kA	9,2 g
A050URB12T13I	Y076933	500 V	12 A	5,25 A²s	150 A²s	1,3 W	2,3 W	50 kA	9,2 g
A050URB16T13I	Z076934	500 V	16 A	9,3 A²s	200 A²s	1,7 W	3,1 W	50 kA	9,2 g
A050URB20T13I	A076935	500 V	20 A	16 A²s	290 A²s	1,7 W	3,2 W	50 kA	9,2 g
A050URL25T13I	B076936	500 V	25 A	37 A²s	580 A²s	2,9 W	4,25 W	50 kA	9,2 g
A050URL30T13I	C076937	500 V	30 A	58 A²s	900 A²s	3,5 W	5,1 W	50 kA	9,2 g

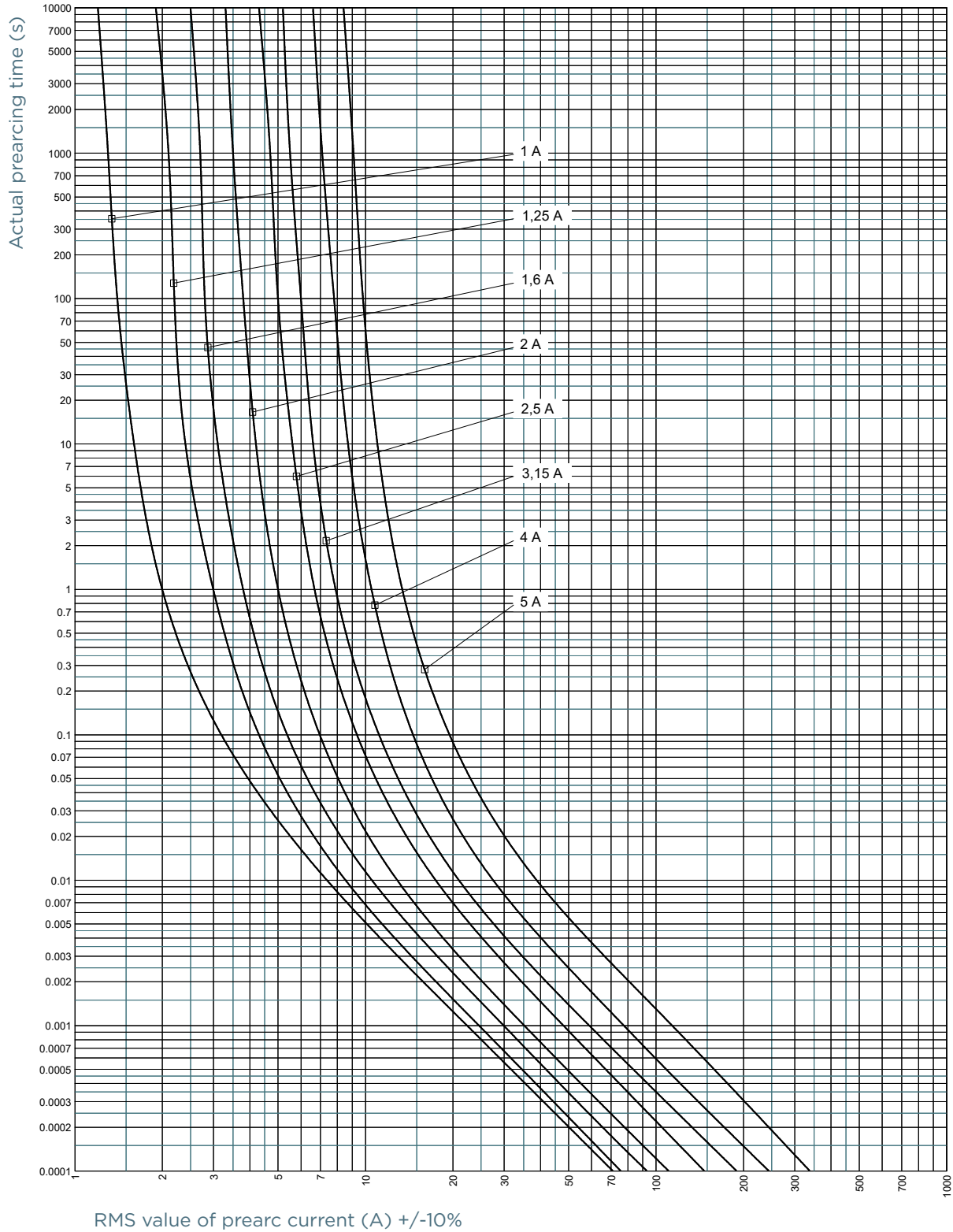
TIME CURRENT CHARACTERISTIC CURVES

600V uRD 0,1A-0,63A



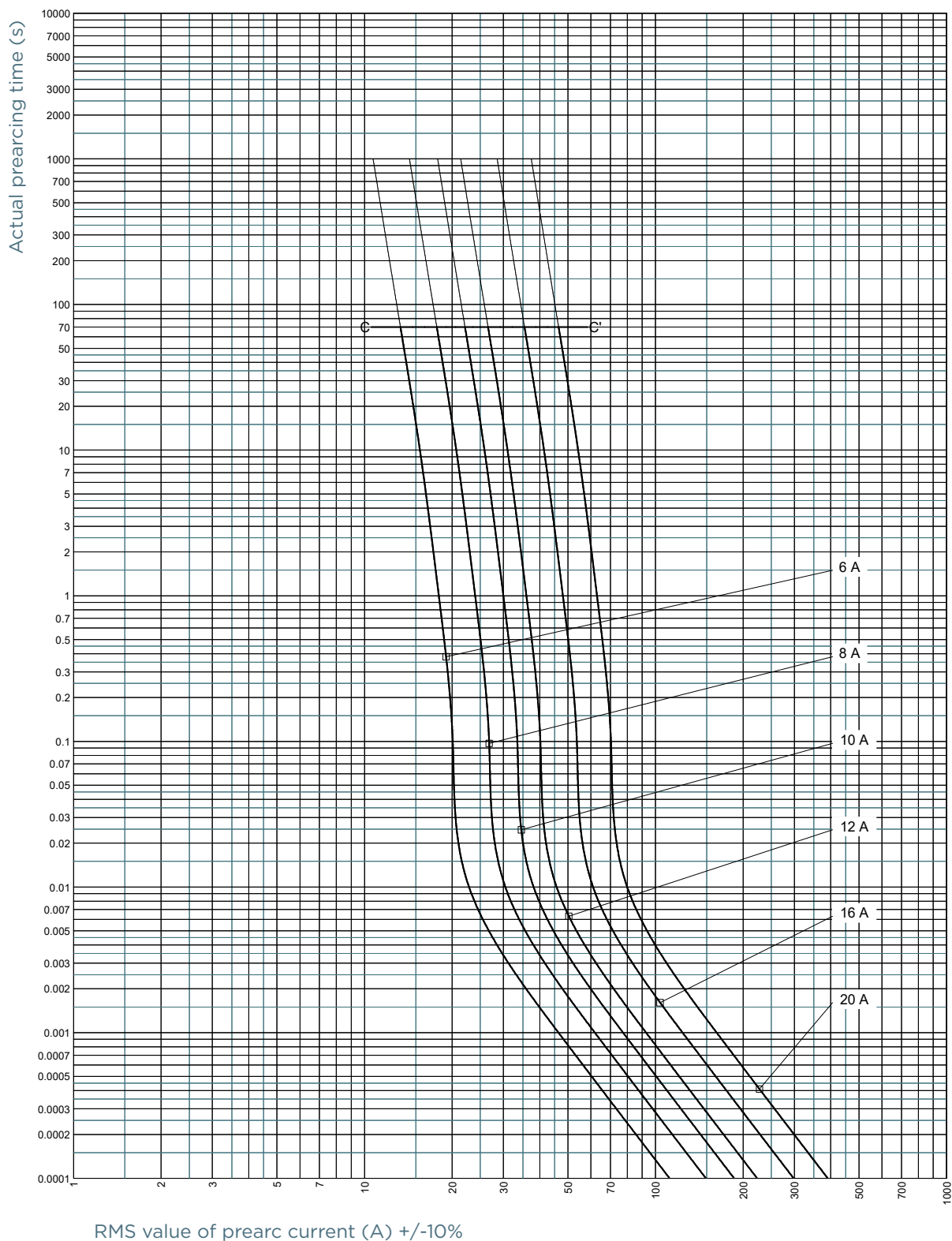
TIME CURRENT CHARACTERISTIC CURVES

500V uRD 1A-5A



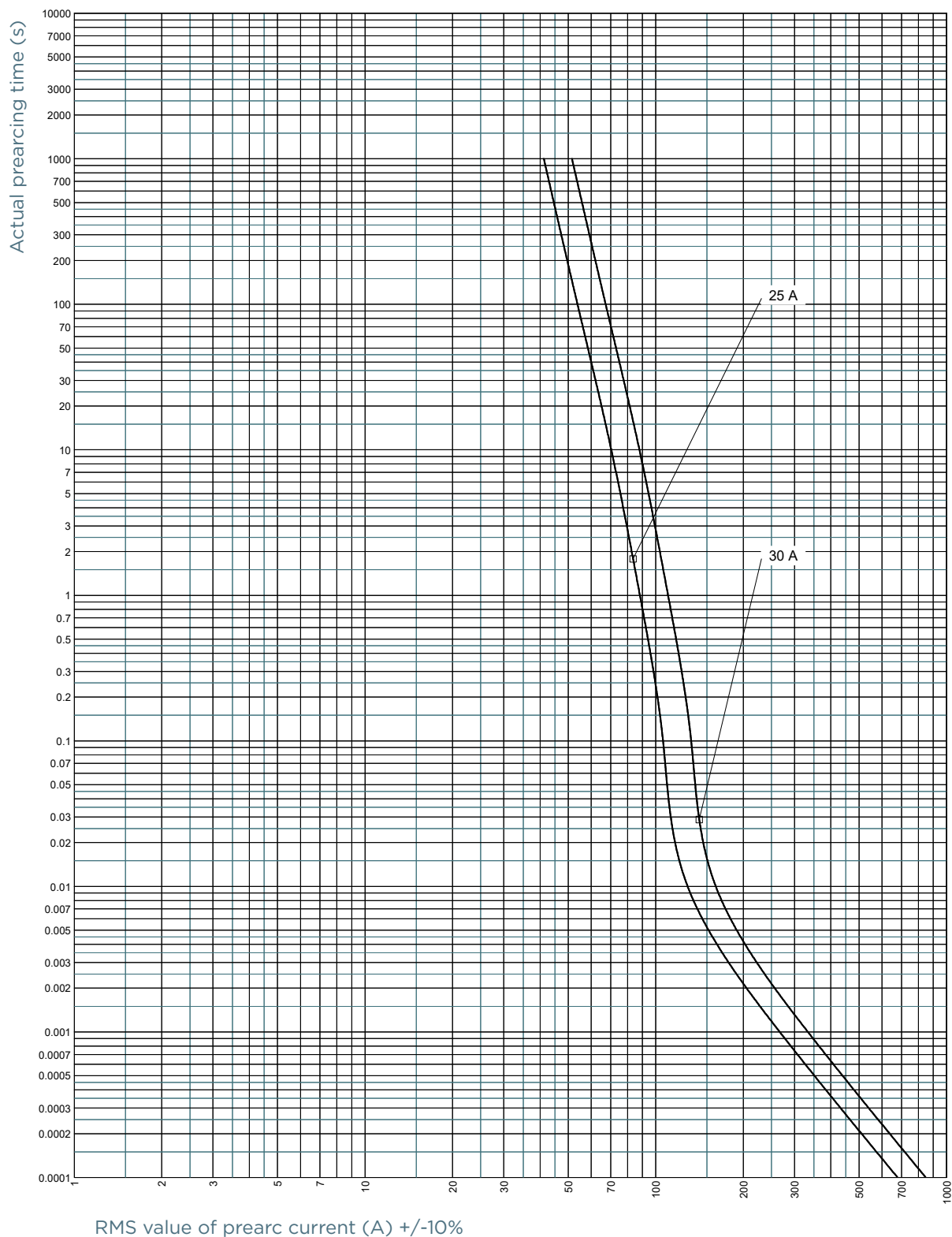
TIME CURRENT CHARACTERISTIC CURVES

500V uRB 6A-20A



TIME CURRENT CHARACTERISTIC CURVES

500V uRL 25A-30A

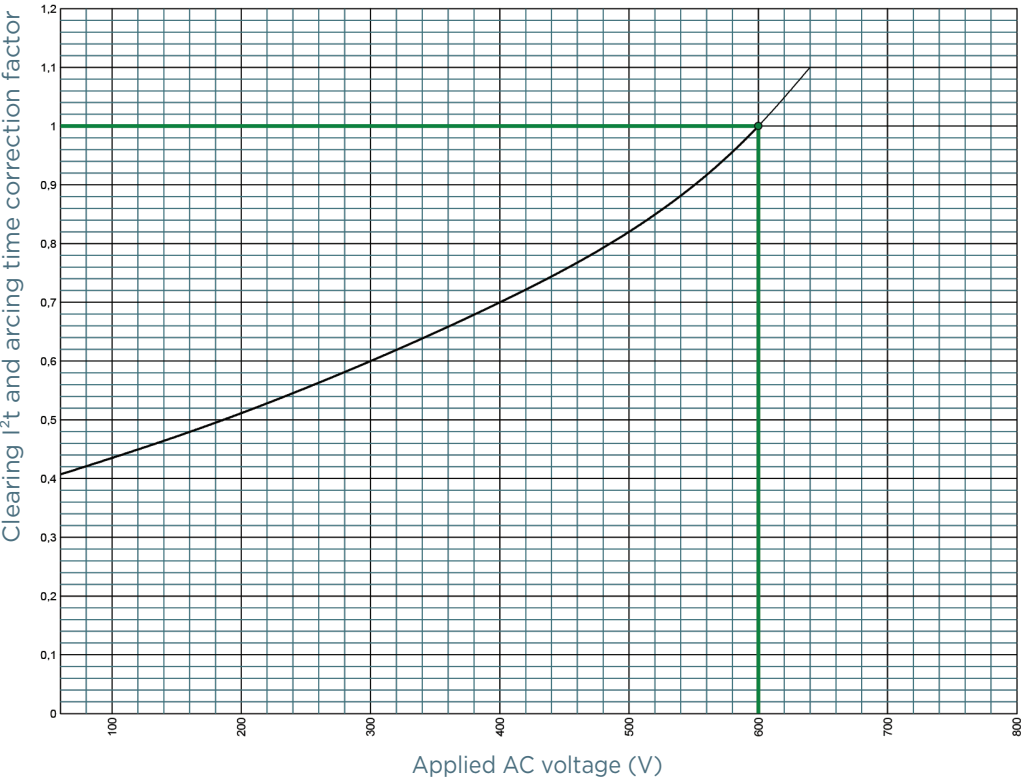


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I²T MULTIPLIER COEFFICIENT

600V uRD 0,1A-0,63A

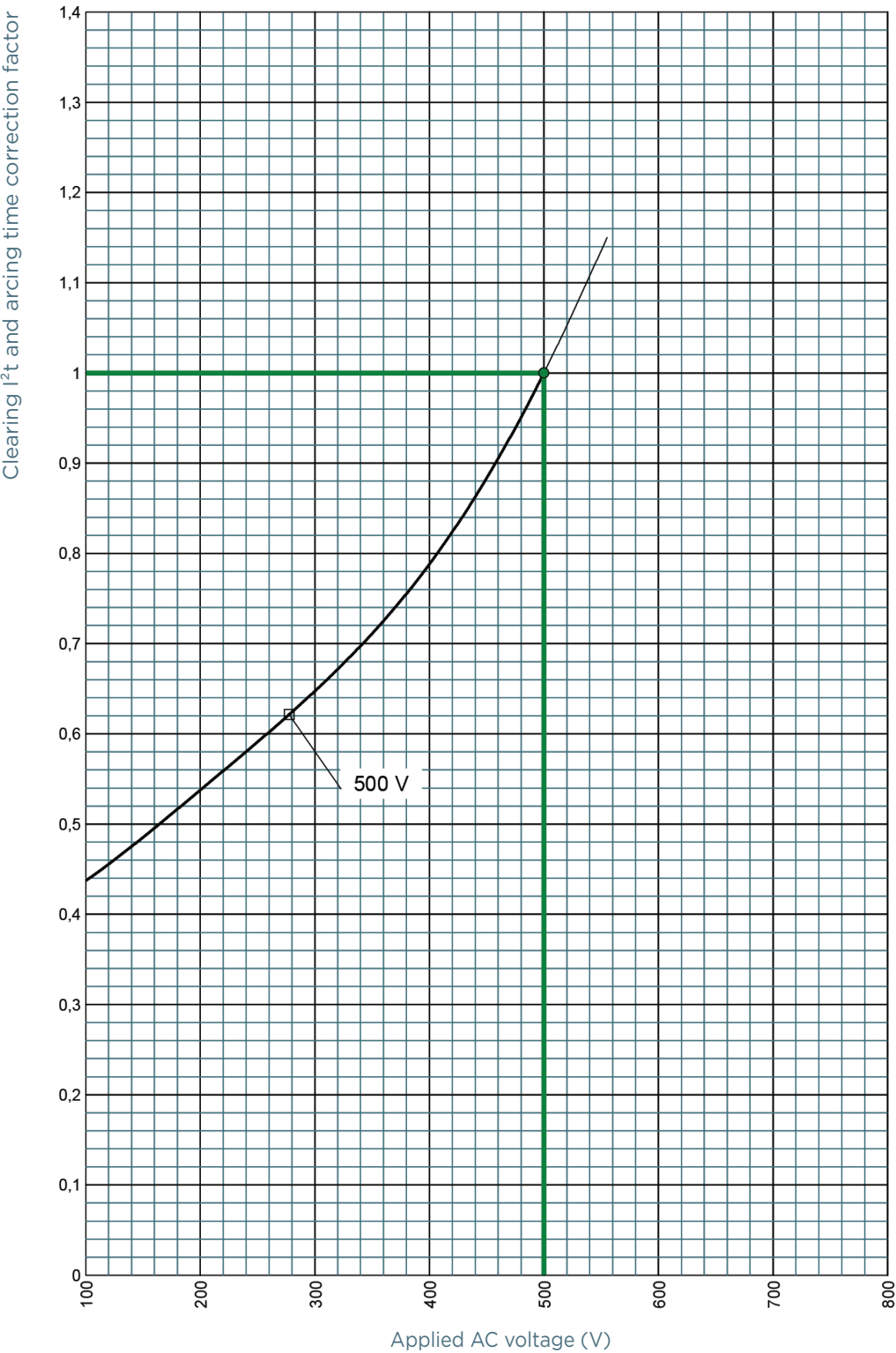


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I²T MULTIPLIER COEFFICIENT

500V uRD 1A-5A

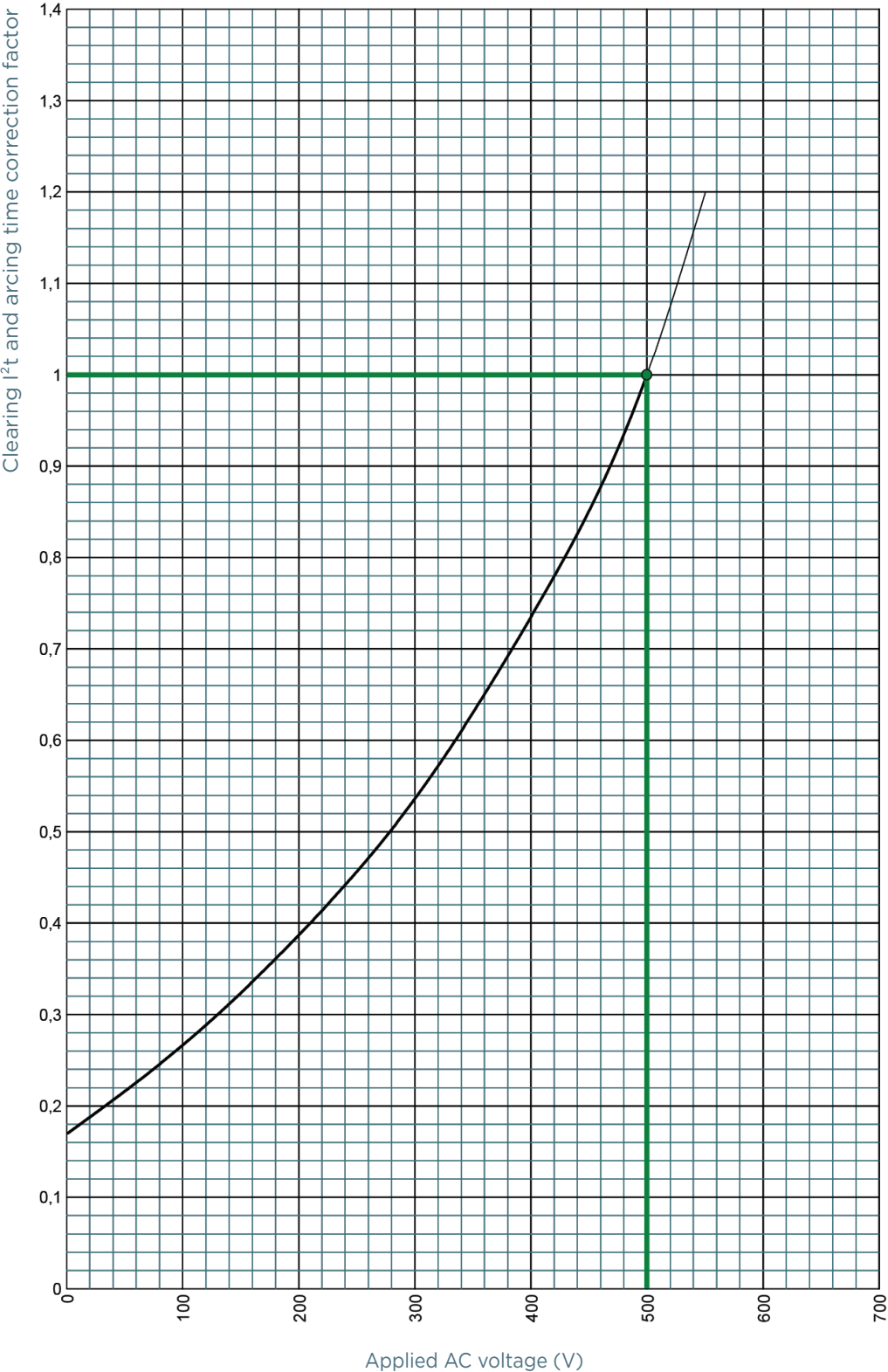


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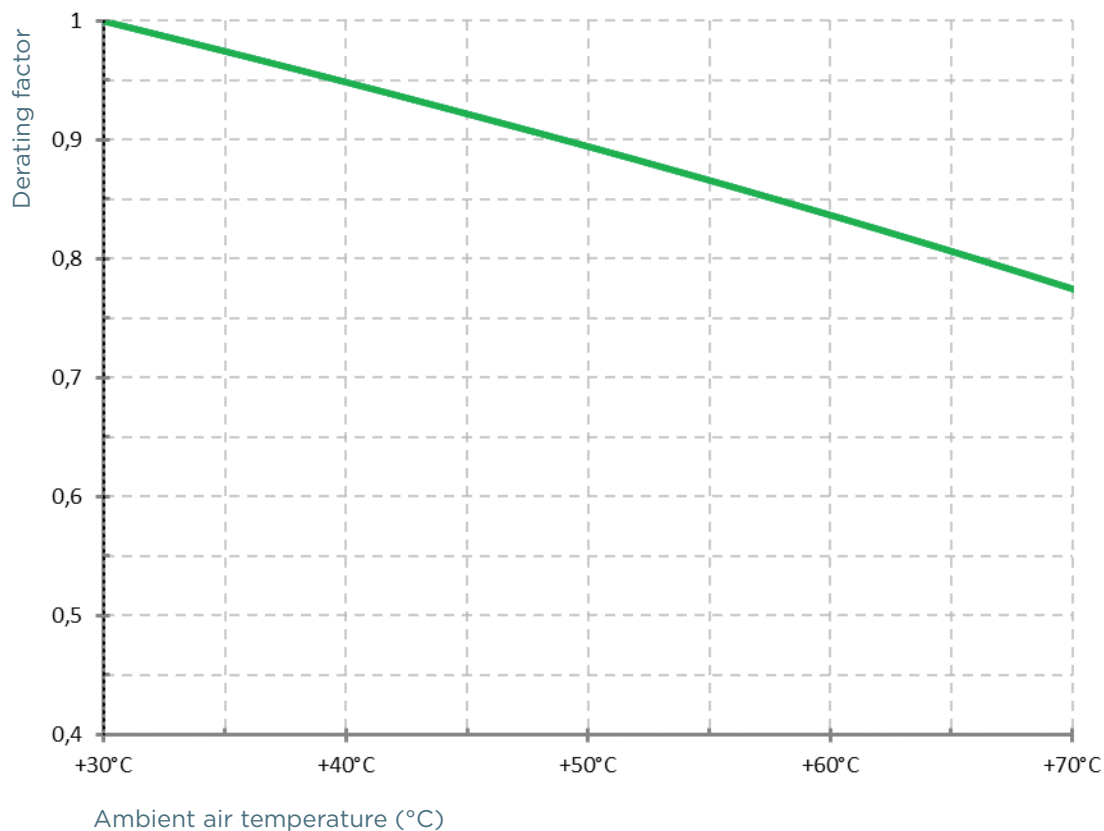
I²T MULTIPLIER COEFFICIENT

500V uRB/uRL 6A-30A



TEMPERATURE DERATING

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

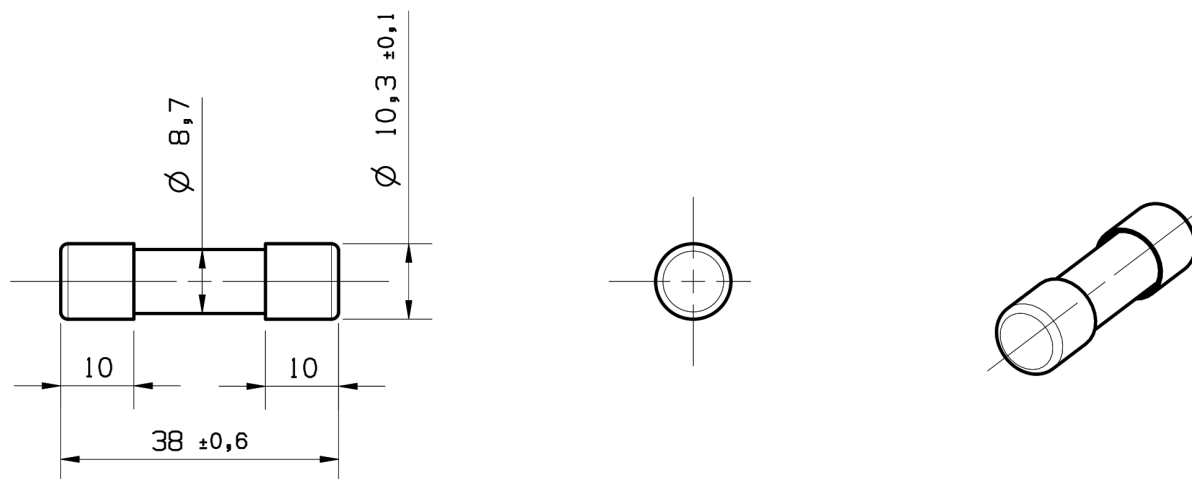


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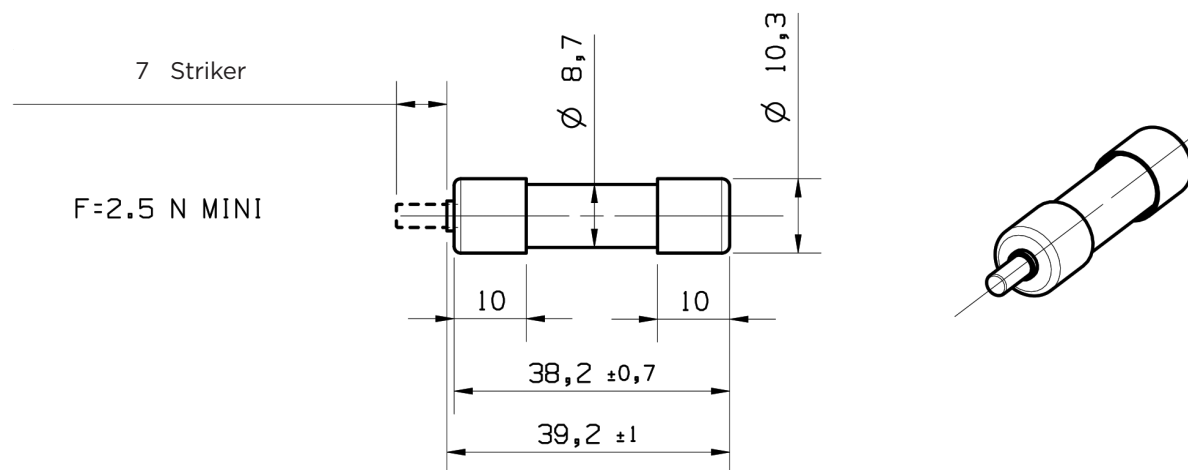
500 to 600VAC

DIMENSIONS

Size 10x38 aR 600VAC without striker



Size 10x38 aR 500VAC with striker



Dimensions in mm