

# Protistor® size 00 aR

1000VAC (IEC)

## SEMICONDUCTOR PROTECTION FUSES

### SQUARE BODY HIGH-SPEED FUSE-LINKS AC PROTECTION



The 1000V Protistor® fuse-links provide maximum flexibility in equipment design and ultimate protection for small power conversion equipment. These ultra-fast acting aR fuses have been engineered to provide state-of-the-art protection for semiconductors: diodes, thyristors and IGBT devices. They are assembled with die-cut elements embedded in solidified sand, which helps control arcing characteristics for a lower  $I^2t$  and high interrupting rating level. All contact surfaces are silver plated and all hardware is non-magnetic. Each fuse-link can be equipped with a low voltage trip-indicator which can operate a field mountable microswitch.

## TECHNICAL DATA OVERVIEW

Rated voltage AC (IEC)	1000 V
Ampere Range (A)	20 ... 315 A
Size per Standard	00
Speed/Characteristic	aR
I.R. AC (IEC)	120 kA 50 kA
Package	3

## FEATURES & BENEFITS

- Very low  $I^2t$  for improved semiconductor protection
- Ultra fast acting
- Superior cycling capability
- Compact Size

## APPLICATIONS

- Protection of inverters, motor drives, UPS systems and similar 1000V or less equipments

## STANDARDS

- EN 60269-4 compliant



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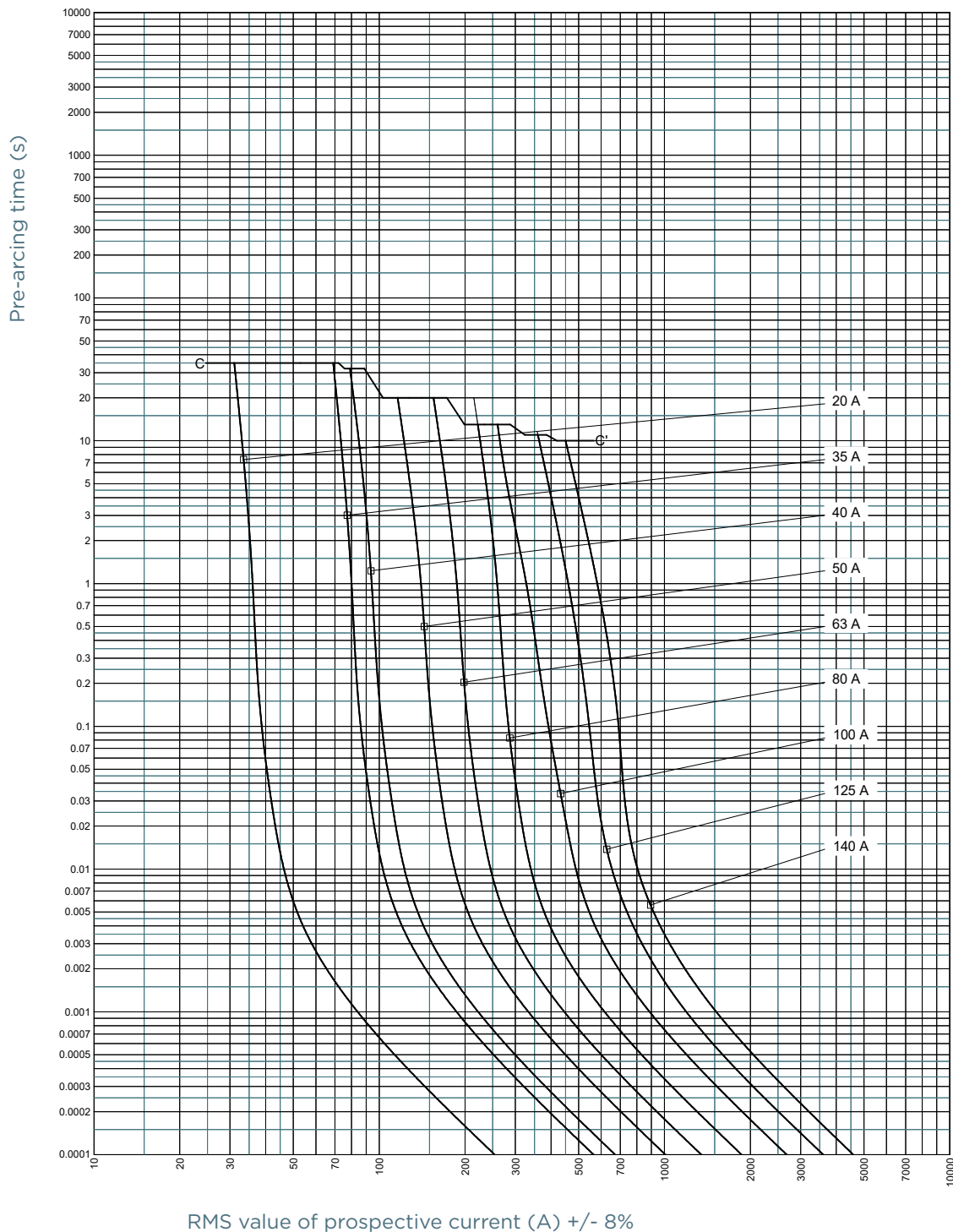
## PRODUCT RANGE

### Size 00 DIN80 1000VAC (IEC)

Catalog number	Item number	Rated voltage AC (IEC)	Rated current I <sub>n</sub>	Pre-arcing I <sup>2</sup> t	Clearing I <sup>2</sup> t at Rated Voltage	Rated breaking capacity AC	Power dissipation at I <sub>n</sub>	Weight
DN00UD10C20L	V227580	1000 V	20 A	6.5 A <sup>2</sup> s	55 A <sup>2</sup> s	120 kA	15 W	0.22 kg
DN00UD10C35L	W227581	1000 V	35 A	32 A <sup>2</sup> s	230 A <sup>2</sup> s	120 kA	17 W	0.22 kg
DN00UD10C40L	G076412	1000 V	40 A	45 A <sup>2</sup> s	320 A <sup>2</sup> s	120 kA	18.5 W	0.22 kg
DN00UD10C50L	H076413	1000 V	50 A	102 A <sup>2</sup> s	704 A <sup>2</sup> s	120 kA	19.5 W	0.22 kg
DN00UD10C63L	J076414	1000 V	63 A	181 A <sup>2</sup> s	1300 A <sup>2</sup> s	120 kA	23 W	0.22 kg
DN00UD10C80L	C075534	1000 V	80 A	347 A <sup>2</sup> s	2420 A <sup>2</sup> s	120 kA	26.5 W	0.22 kg
DN00UD10C100L	D075535	1000 V	100 A	725 A <sup>2</sup> s	4800 A <sup>2</sup> s	120 kA	29 W	0.22 kg
DN00UD10C125L	M076417	1000 V	125 A	1400 A <sup>2</sup> s	9200 A <sup>2</sup> s	120 kA	34 W	0.22 kg
DN00UC10C160L	X076426	1000 V	160 A	2469 A <sup>2</sup> s	17300 A <sup>2</sup> s	120 kA	39 W	0.25 kg
DN00UC10C200L	Y076427	1000 V	200 A	4527 A <sup>2</sup> s	31500 A <sup>2</sup> s	120 kA	49 W	0.25 kg
DN00UC10C250L	Z076428	1000 V	250 A	8680 A <sup>2</sup> s	60000 A <sup>2</sup> s	120 kA	56.5 W	0.25 kg
DN00UC10C280L	A076429	1000 V	280 A	11810 A <sup>2</sup> s	81400 A <sup>2</sup> s	120 kA	62 W	0.25 kg
DN00UC10C315L	V076263	1000 V	315 A	15430 A <sup>2</sup> s	115000 A <sup>2</sup> s	50 kA	67 W	0.25 kg

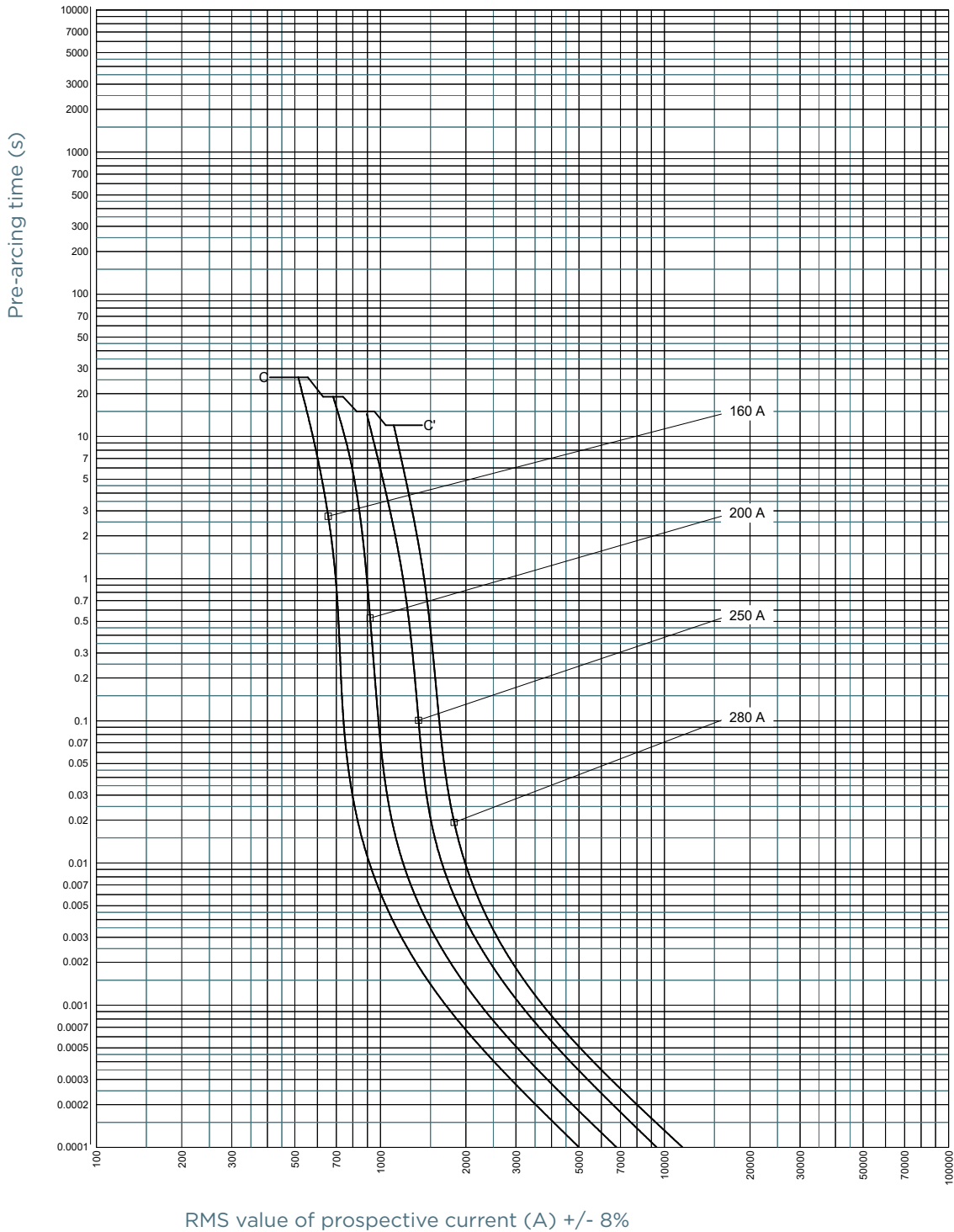
## TIME CURRENT CHARACTERISTIC CURVES

Size 00, 1000VAC, 20A to 140A



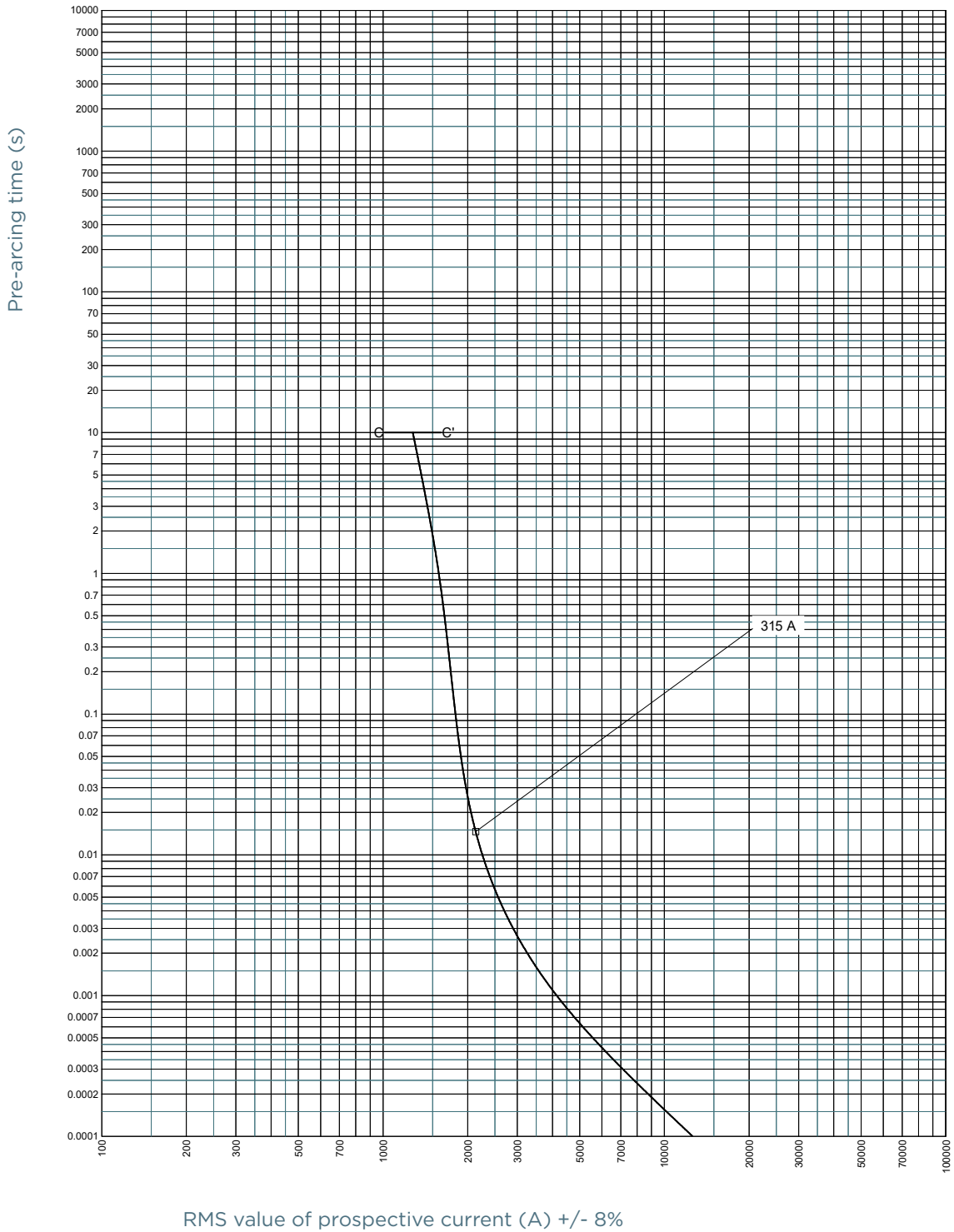
## TIME CURRENT CHARACTERISTIC CURVES

Size 00, 1000VAC, 160A to 280A



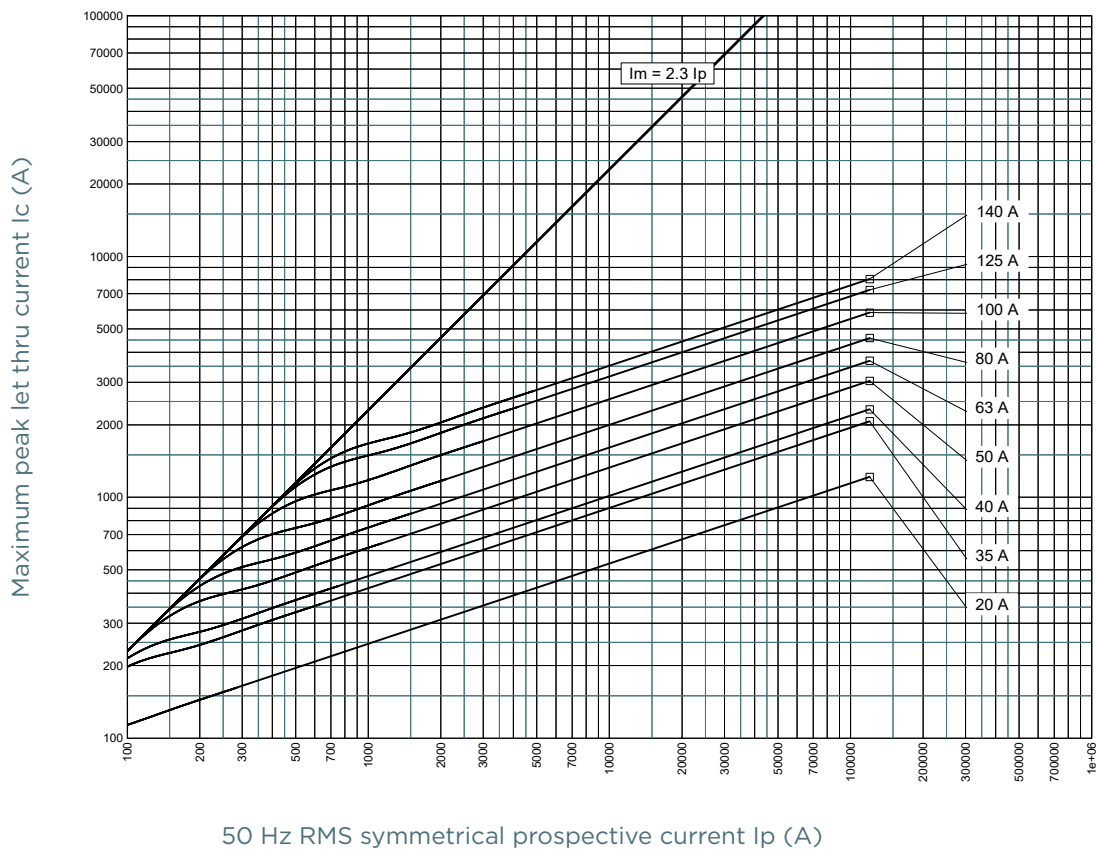
## TIME CURRENT CHARACTERISTIC CURVES

Size 00, 1000VAC, 315A



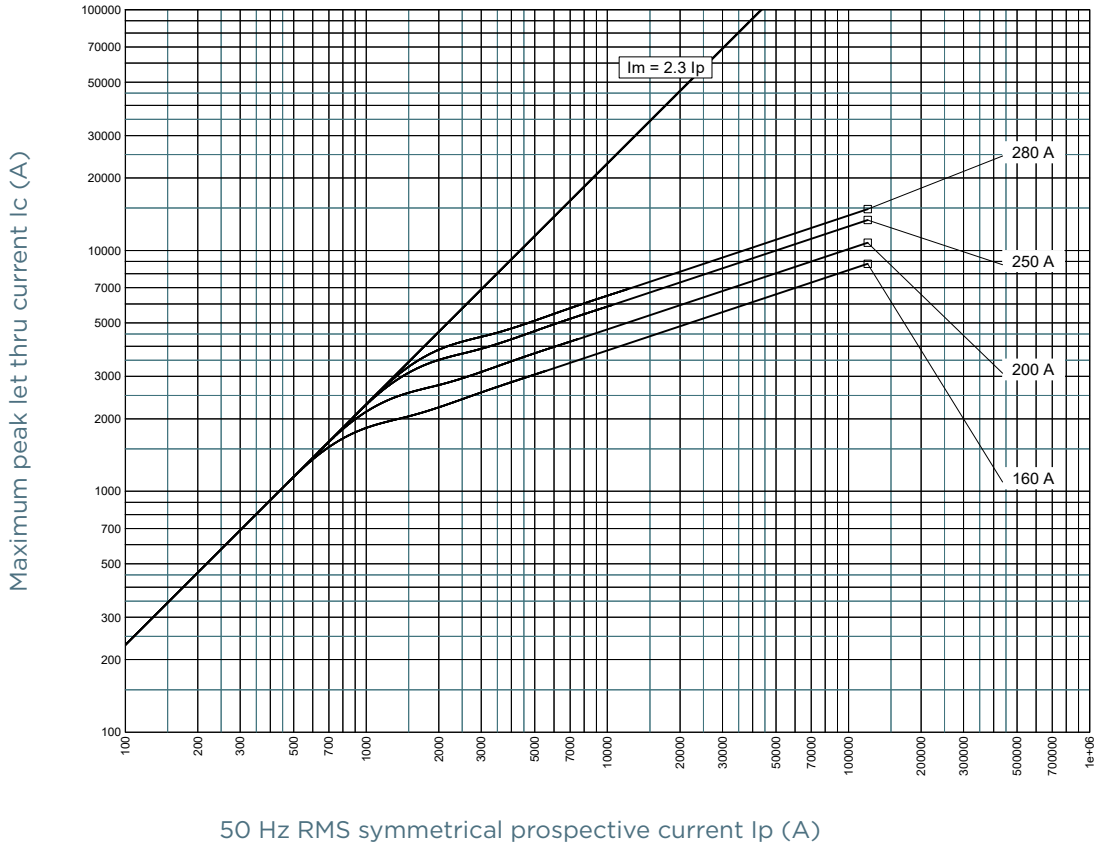
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Size 00, 1000VAC, 20A to 140A



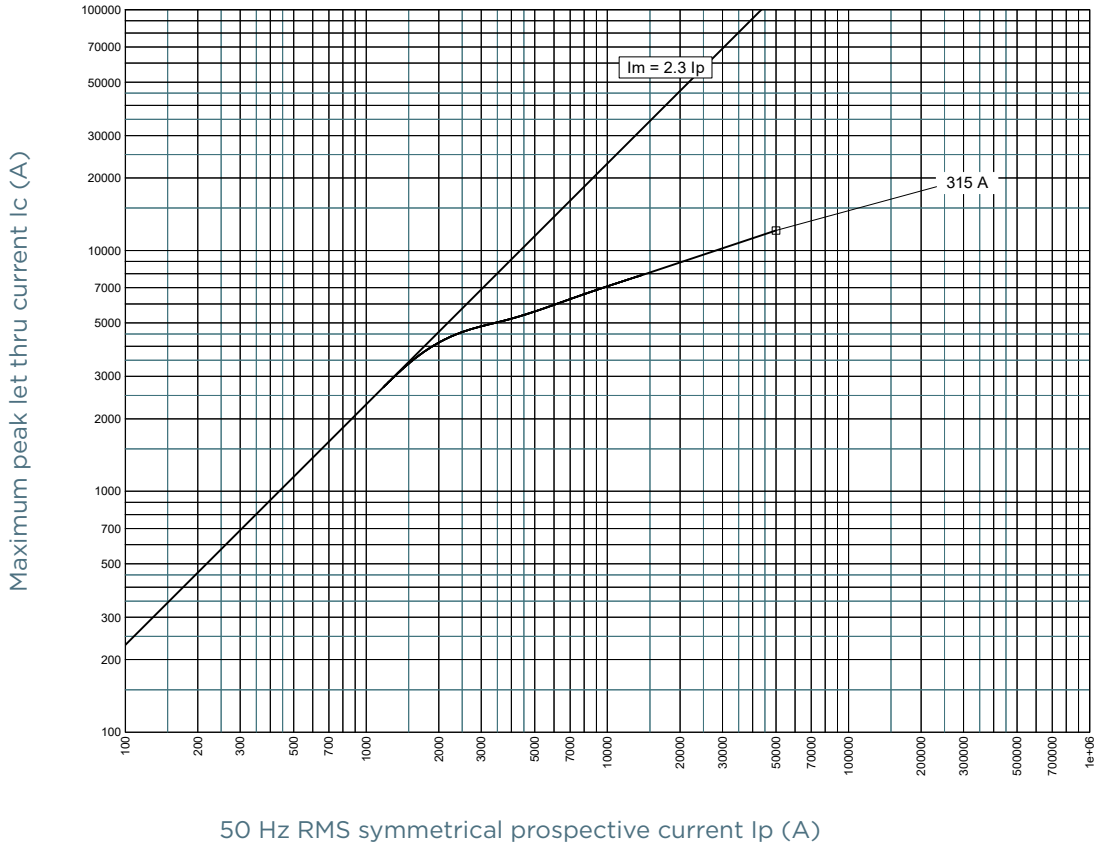
## CUT-OFF CURRENT CHARACTERISTIC

Size 00, 1000VAC, 160A to 280A



## CUT-OFF CURRENT CHARACTERISTIC

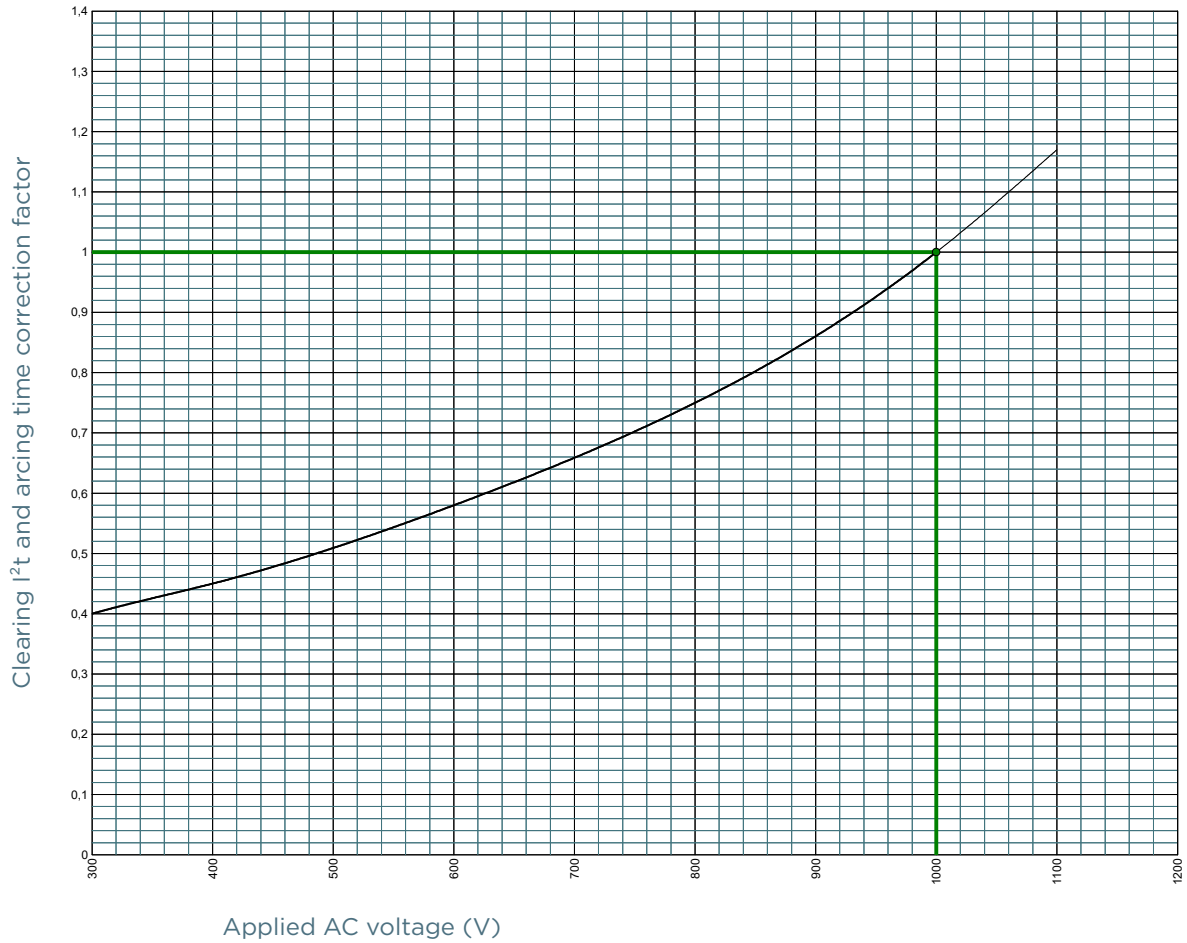
Size 00, 1000VAC, 315A





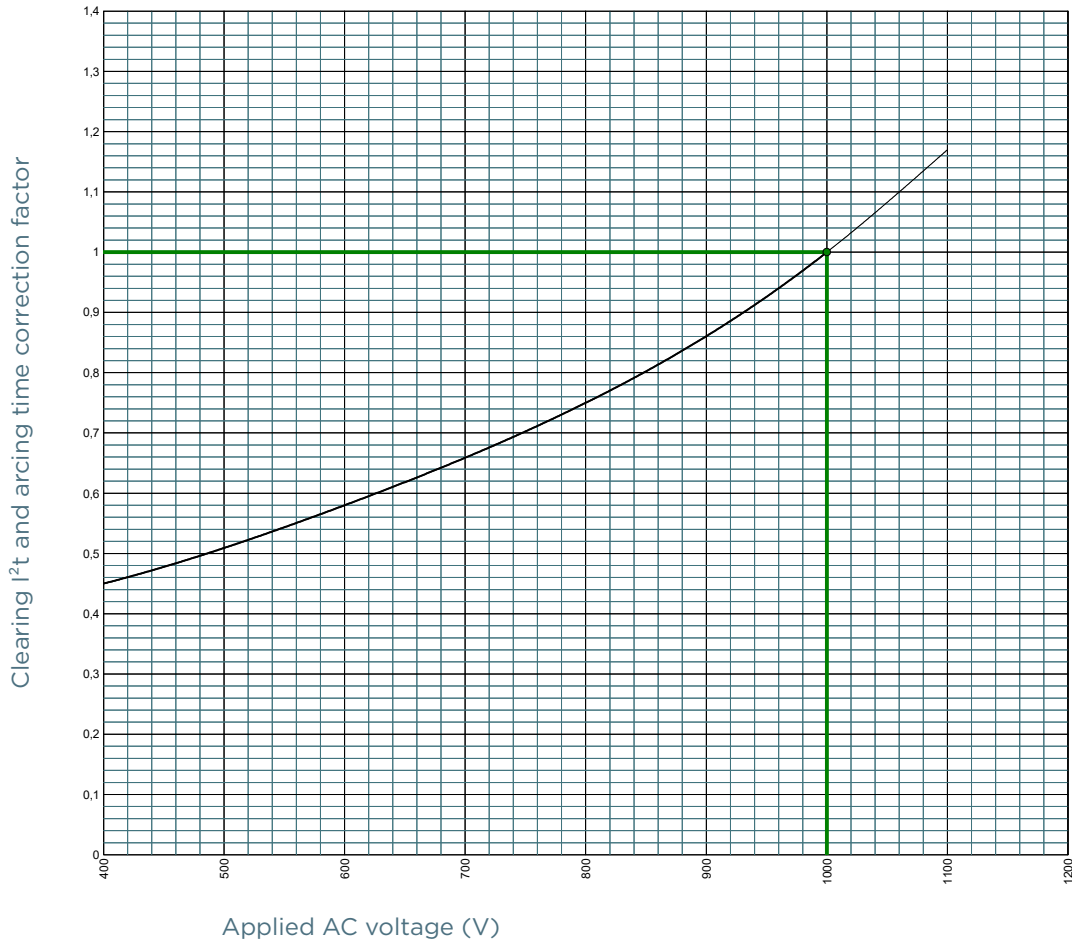
## I<sup>2</sup>T MULTIPLIER COEFFICIENT

Size 00, 1000VAC , 20A to 280A



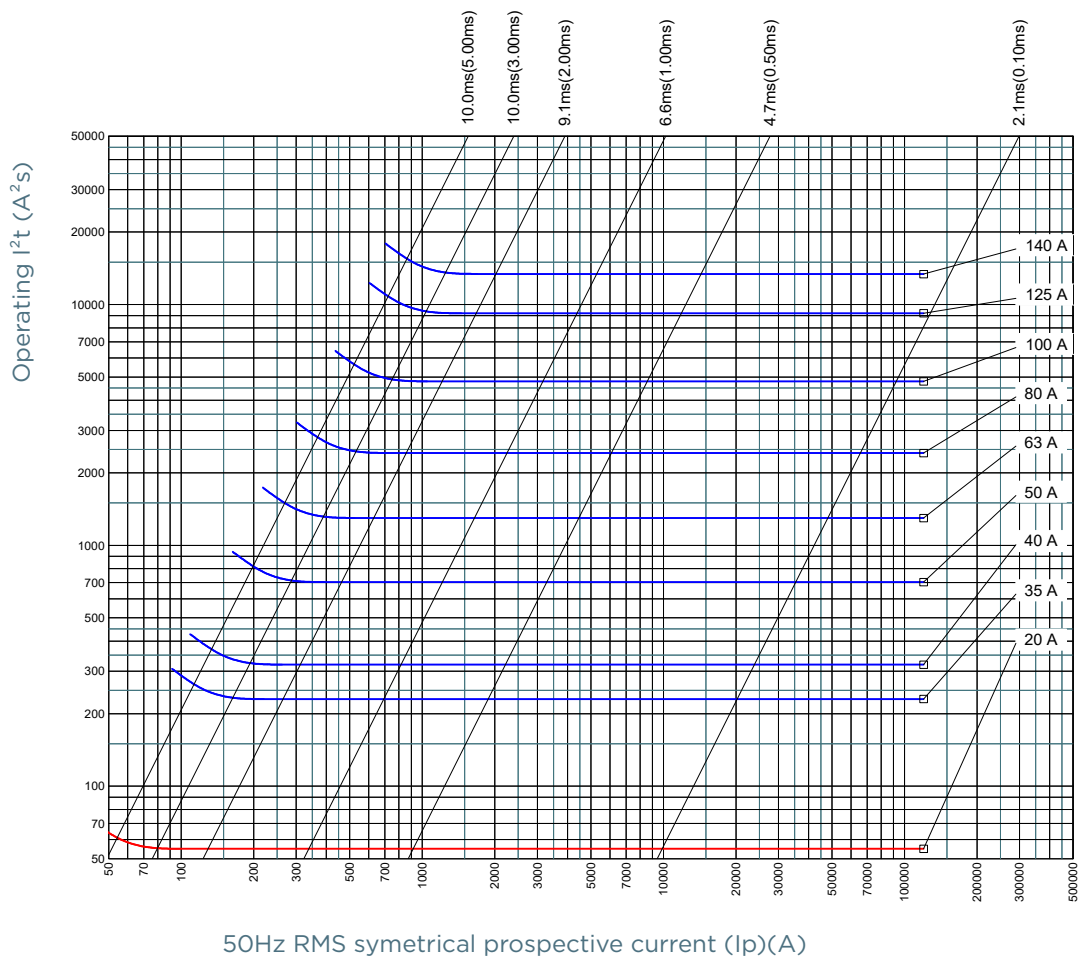
## I<sup>2</sup>T MULTIPLIER COEFFICIENT

Size 00, 1000VAC , 315A



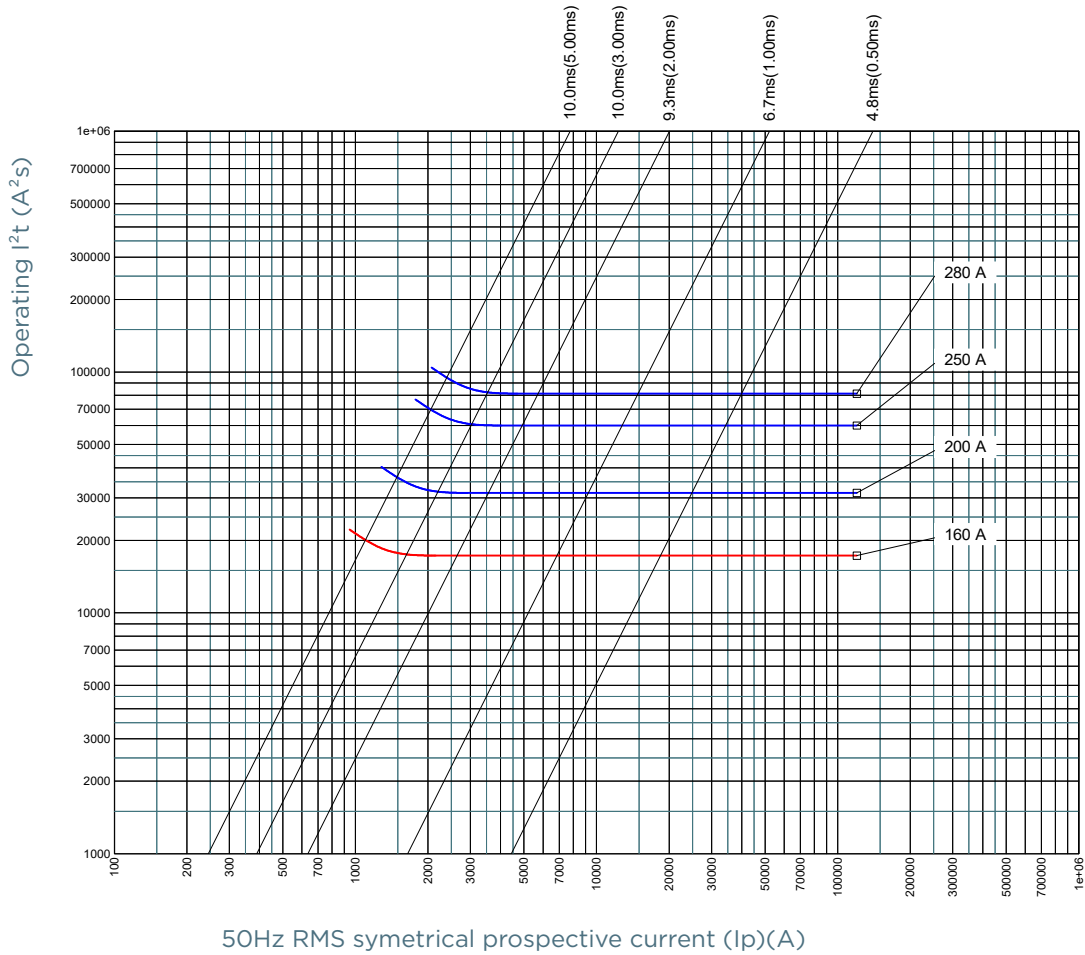
## CHARACTERISTICS TOTAL I<sup>2</sup>T CURVE

Size 00, 1000VAC, 20A to 140A



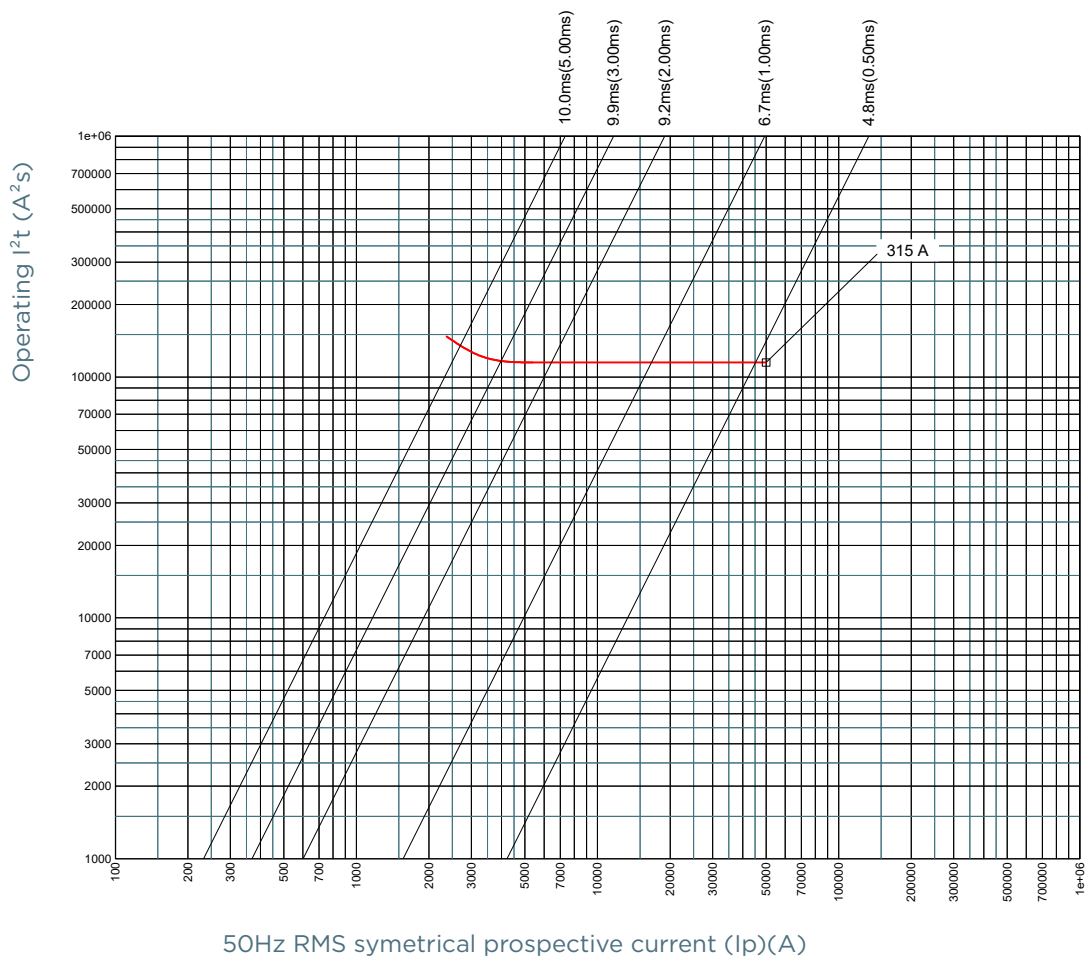
## CHARACTERISTICS TOTAL I<sup>2</sup>T CURVE

Size 00, 1000VAC, 160A to 280A



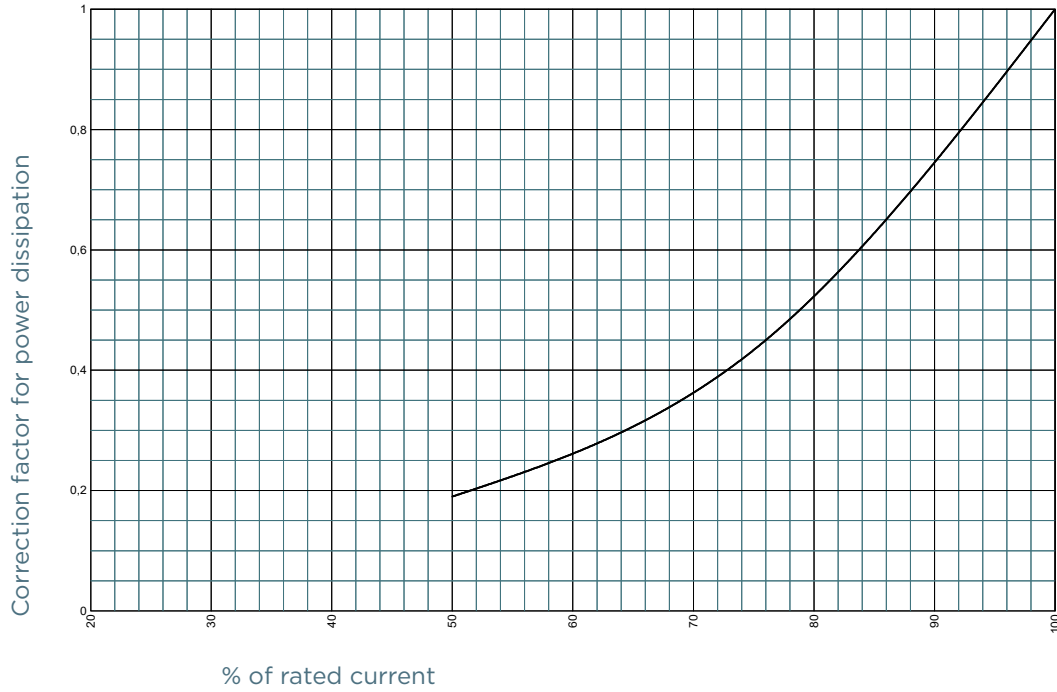
## CHARACTERISTICS TOTAL I<sup>2</sup>T CURVE

Size 00, 1000VAC, 315A



## POWER DISSIPATION

Size 00, 1000VAC, 20A to 315A



## PEAK ARC VOLTAGE

Size 00, 1000VAC, 20A to 315A

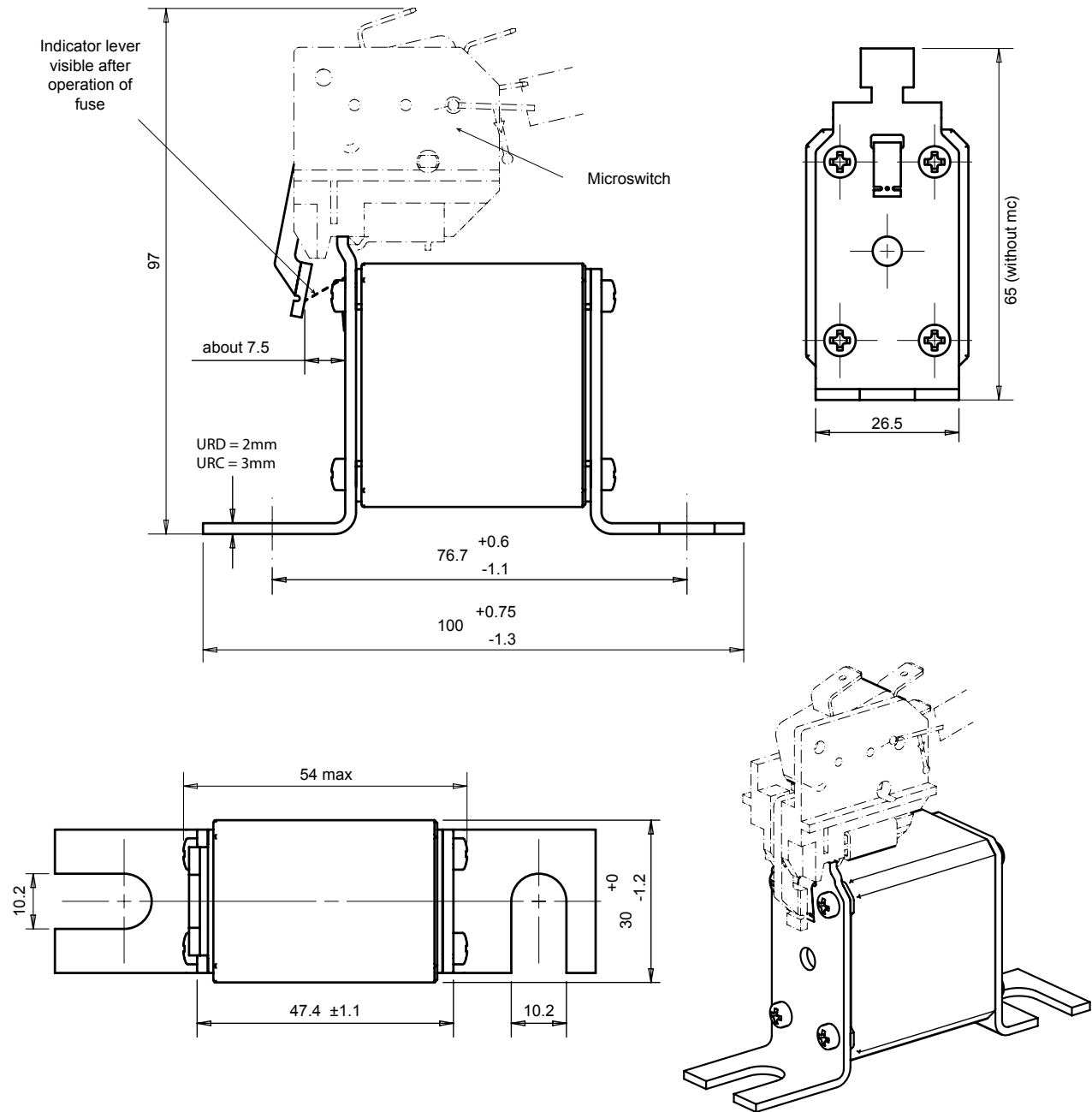


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## DIMENSIONS

Size 00, DIN80, 1000VAC, 20 to 315A



Dimensions in mm