

Wkładki topikowe NH 690V AC gS

Typ: NH000 - NH3

Charakterystyka: gS

Prąd znamionowy: 16-630A

Napięcie znamionowe: 690V AC

Zwarciova zdolność wyłączenia: 100kA

Wg normy: IEC/PN 60269-1, PN 60269-4

Budowa: Korpus ze steatytu,
styki miedziane srebrzone,
bez zawartości Cd i Pb



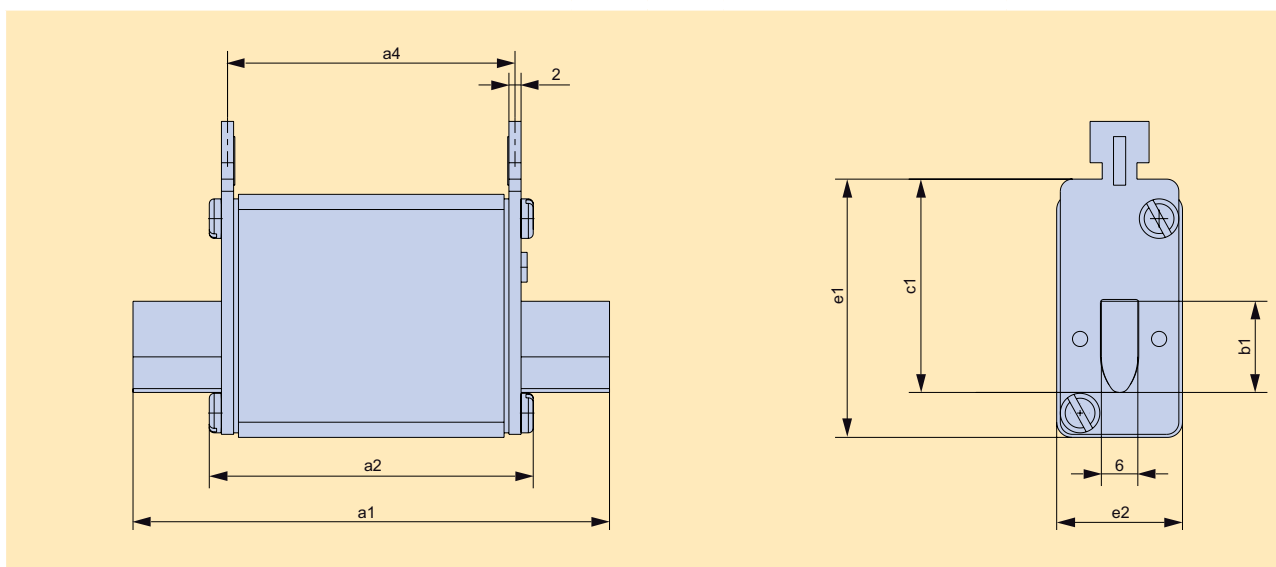
Wkładki topikowe NH gS 690V AC

U _n	Wielkość	I _n [A]	Całk Joule`a wyłączenia I ² t[A ² s]	Całk Joule`a przedłukowa I ² t[A ² s]	Straty mocy P _n [W]	Opakowanie	Typ	Wskaźnik górny
								Nr artykułu
690V	000	16	210	19	2,8	3	M000gS/16A/690V	R5582250
		20	440	44	3,3		M000gS/20A/690V	R5582450
		25	760	72	4,2		M000gS/25A/690V	R5582650
		35	1.680	160	5,2		M000gS/35A/690V	R5583150
		40	3.100	290	5,8		M000gS/40A/690V	R5583450
		50	4.500	450	6,2		M000gS/50A/690V	R5583550
		63	9.250	890	7,3		M000gS/63A/690V	R5583850
		80	18.300	1.380	8,1		M000gS/80A/690V	R5584150
		100	34.200	3.400	10,5		M000gS/100A/690V	R5584350
		125	64.500	5.900	11,7		M000gS/125A/690V	R5584650
	00	160	77.000	8.500	14,0	3	M00gS/160A/690V	R5584914
	1*	160	61.500	7.800	23,0	3	M1gS/160A/690V	R1584900
		200	101.000	14.300	26,0		M1gS/200A/690V	R1585200
		250	202.000	29.300	30,0		M1gS/250A/690V	R1585600
		315	312.000	47.500	36,0		M1gS/315A/690V	R1585900
	2*	350	425.000	57.000	41,0	3	M2gS/350A/690V	R2586000
		400	585.000	83.500	45,0		M2gS/400A/690V	R2586200
		450	765.000	107.000	52,0		M2gS/450A/690V	R2586400
		500	970.000	150.000	56,0		M2gS/500A/690V	R2586600
	3*	560	1.800.000	214.000	55,0	3	M3gS/560A/690V	R3586700
630		2.300.000	291.000	57,0	M3gS/630A/690V		R3586900	

* W ofercie również wkładki na mniejsze prądy – informacja na zapytanie

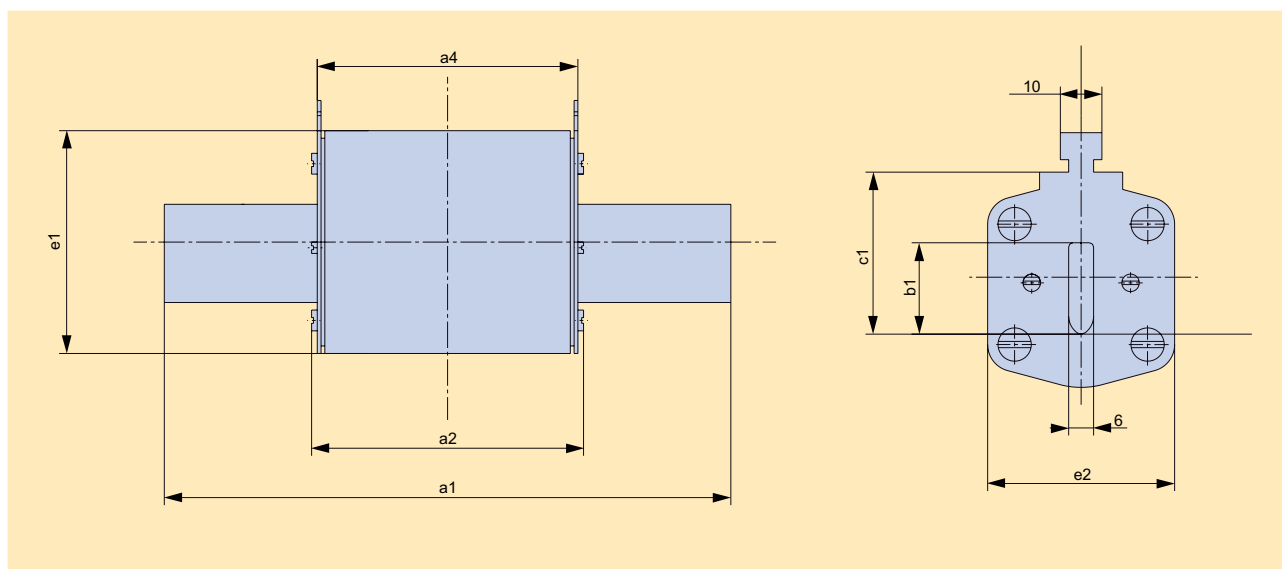
Dane techniczne

Typ			M000gS/.../690V	M00gS/.../690V
Wielkość			NH000	NH00
Napięcie znamionowe	U_n	V	AC690	
Prąd znamionowy	I_n	A	16-125	160
Zwarciova zdolność wyłączenia	-	kA	100	
Charakterystyka			gS	
Normy			IEC/PN 60269-1 IEC/PN 60269-4 DIN VDE 0636-2	
Wymiary	a1	mm	78,5	78,5
	a2		53	53
	a4		49	49
	b1		15	15
	c1		35	35
	e1		43	49
	e2		21	30
Waga	-	g	140	140

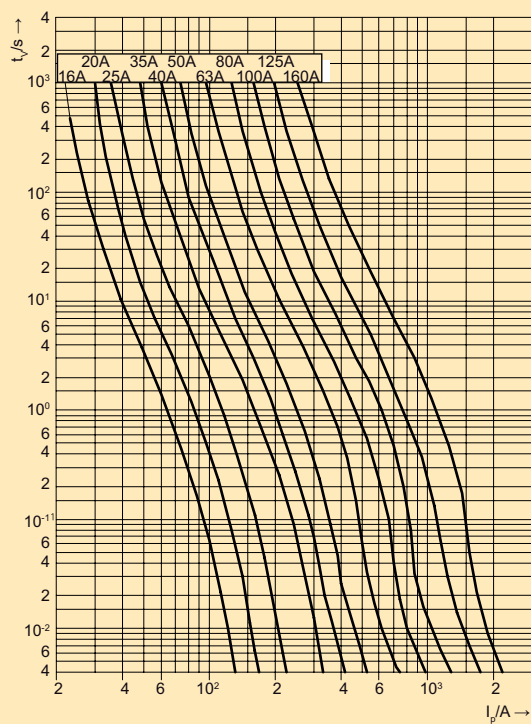


Dane techniczne

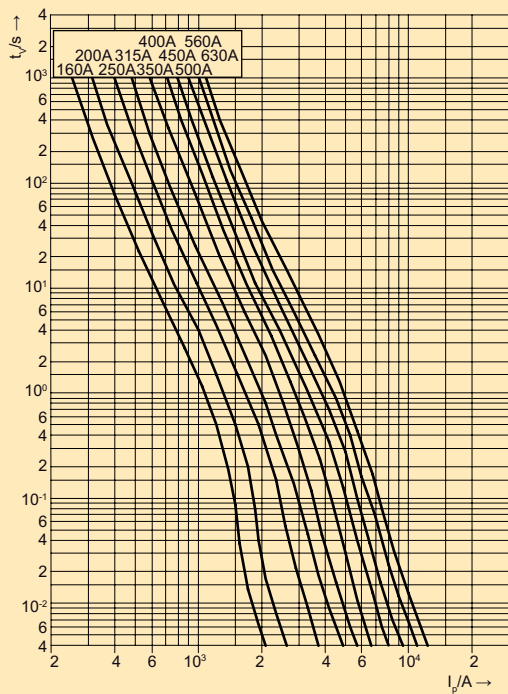
Typ			M1gS/.../690V	M2gS/.../690V	M3gS/.../690V
Wielkość			NH1	NH2	NH3
Napięcie znamionowe	U_n	V	AC690		
Prąd znamionowy	I_n	A	160-315	350-500	560-630
Zwarciova zdolność wyłączenia	-	kA	100		
Charakterystyka			gS		
Normy			IEC/PN 60269-1 IEC/PN 60269-4 DIN VDE 0636-2		
Wymiary	a1	mm	135	150	150
	a2		72	72	72
	a4		67	67	67
	b1		24	30	37
	c1		40	48	60
	e1		55	63	74
	e2		46	54	64
Waga	-	g	420	660	870



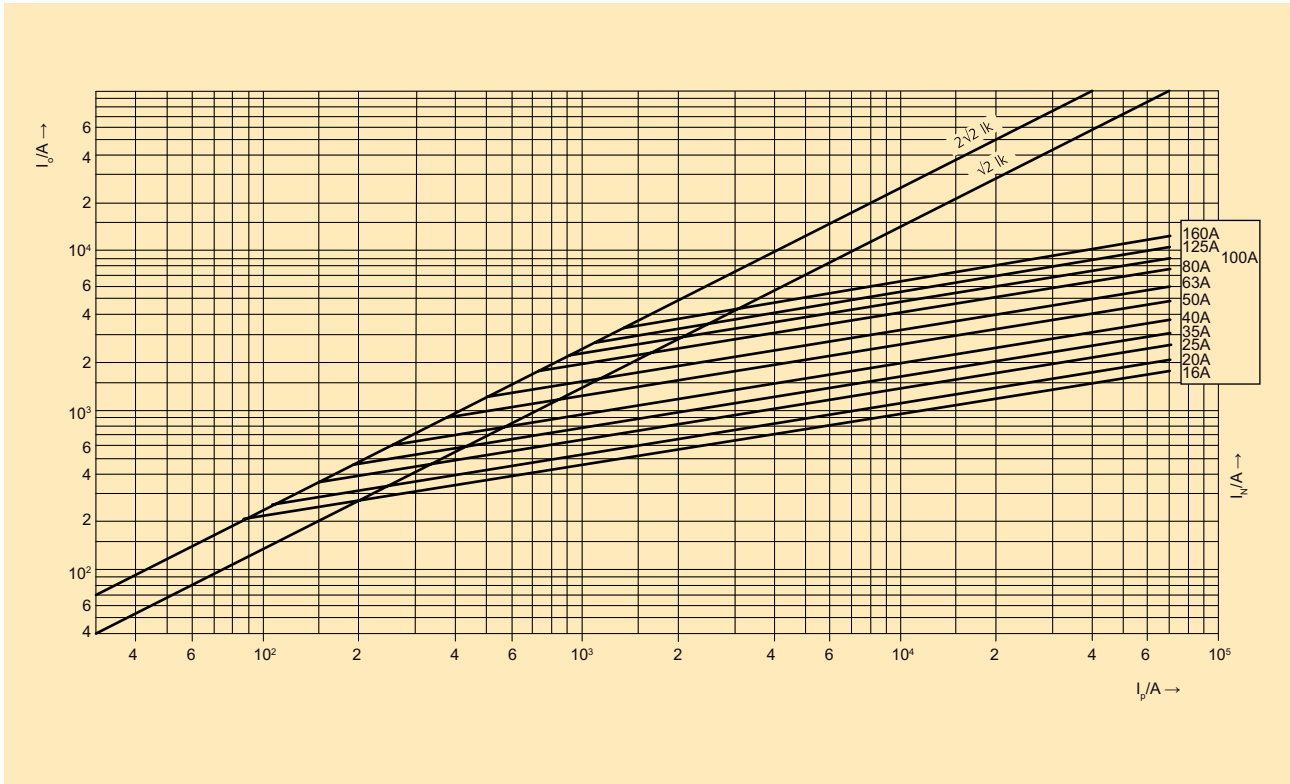
Charakterystyka czasowo-prądowa



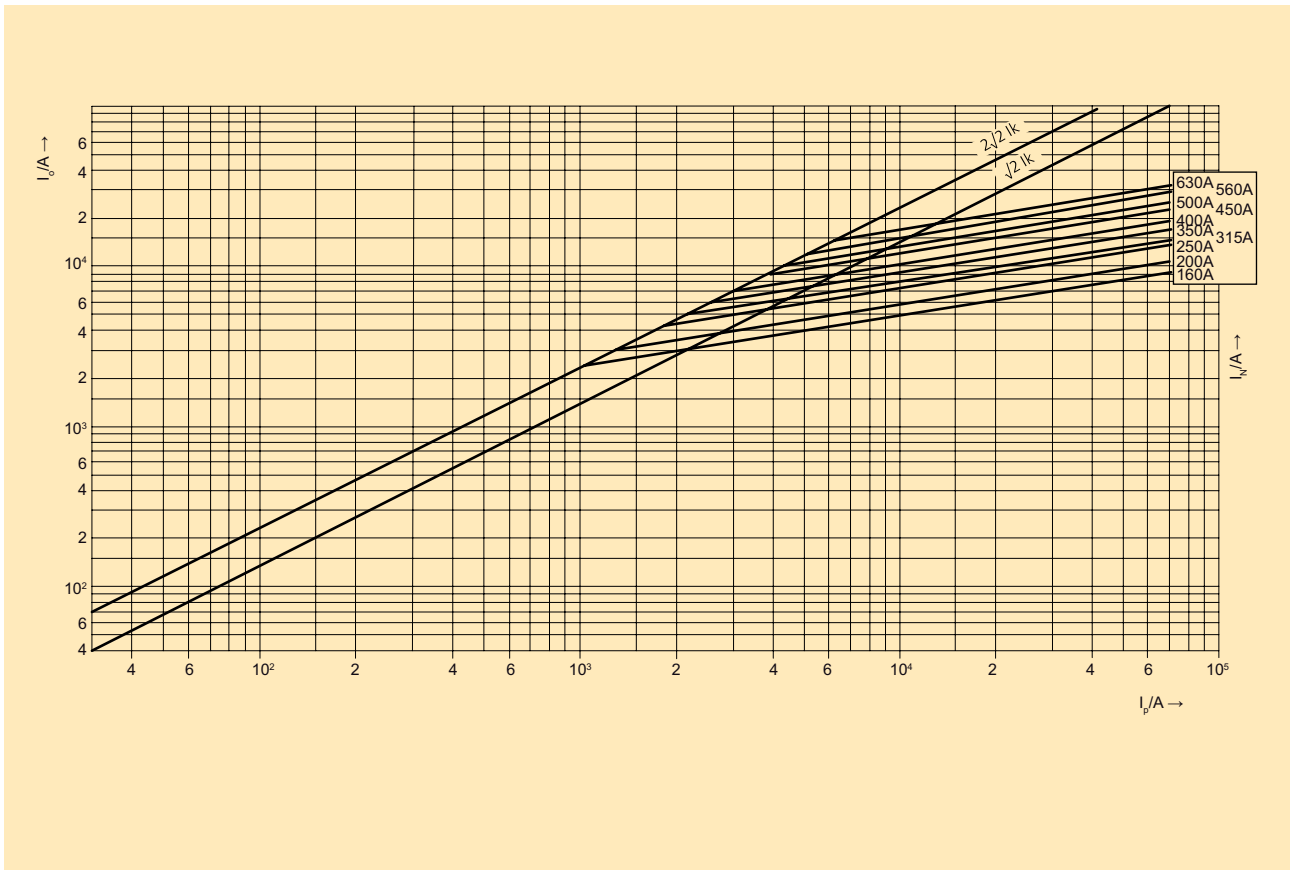
Charakterystyka czasowo-prądowa



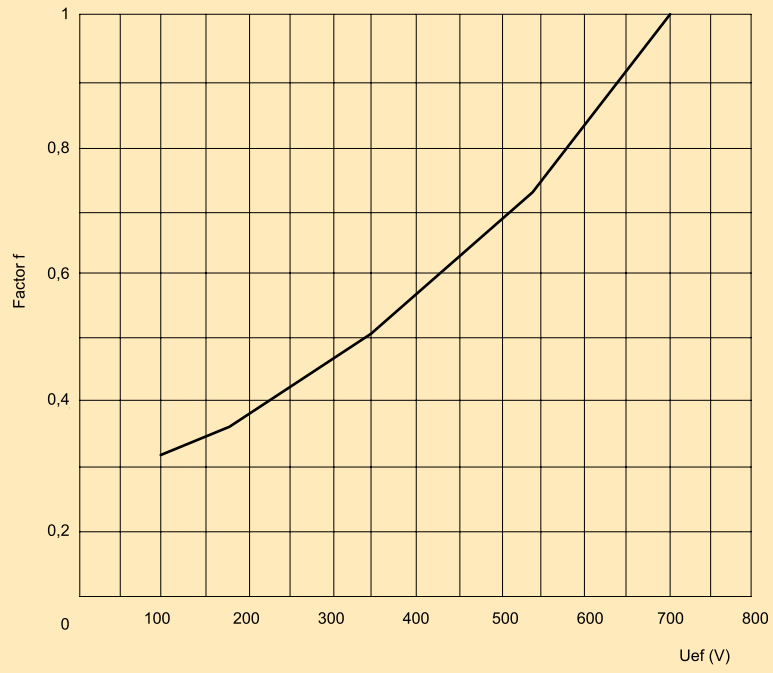
Charakterystyka prądu ograniczonego



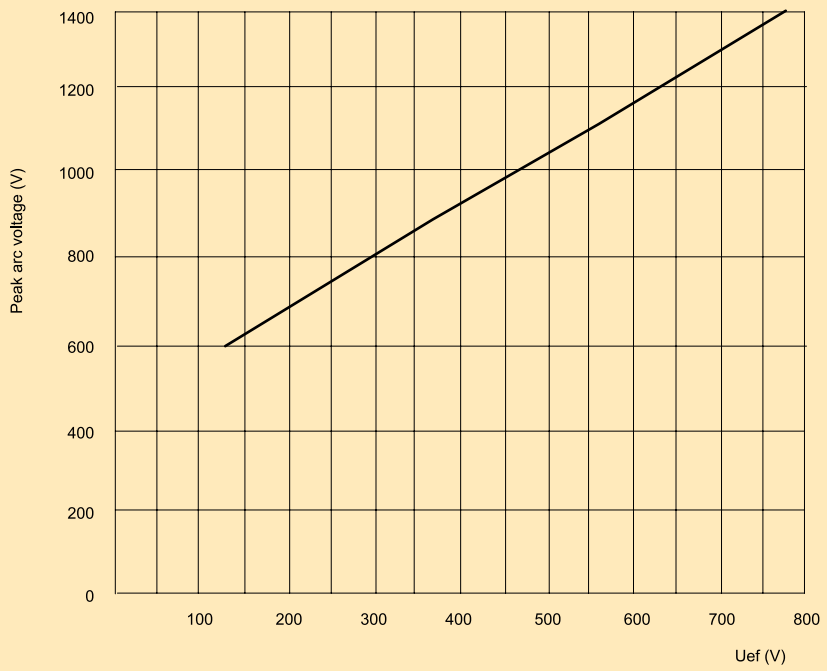
Charakterystyka prądu ograniczonego



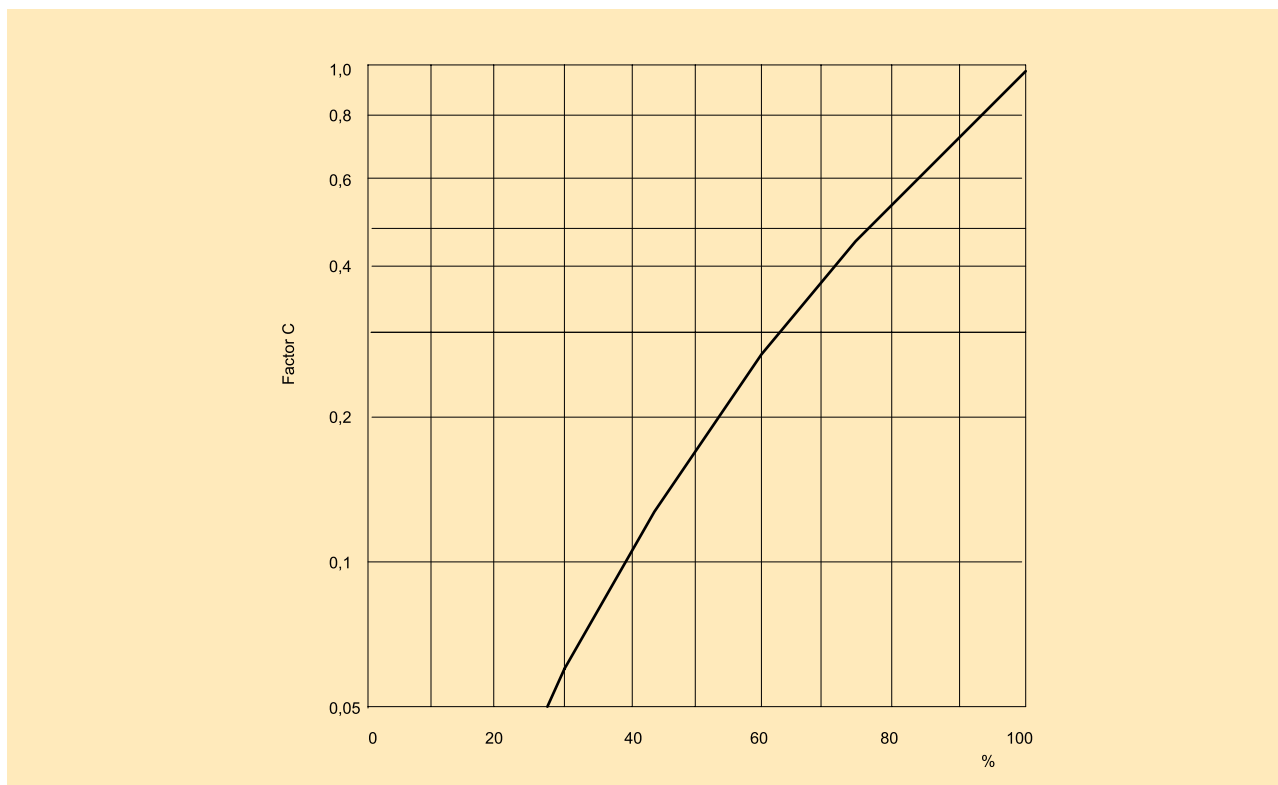
Współczynnik korekcyjny dla wartości całki wyłączenia I²t



Maksymalny spadek napięcia łuku



Współczynnik korekcyjny przy częściowym obciążeniu



Protistor® size NH 000, 00, 1, 2, 3 gS

690VAC

SEMICONDUCTOR PROTECTION FUSES

NH SQUARE BODY HIGH-SPEED FUSE-LINKS AC PROTECTION



The 690/700V Protistor® fuse-links provide maximum flexibility in equipment design and ultimate protection for today's power conversion equipment. These NH style fuse-links are defined as per DIN 43620/00 for a worldwide acceptance into NH modular system fuse-holders, fuse switch disconnectors for direct installation.

The Protistor® have been engineered to provide state-of-the-art protection for semiconductors: diodes, thyristors, GTO's and IGBT devices. Fuses are assembled with pure silver, 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	690/700VAC
Ampere Range (A)	16 ... 630 A
Size per Standard	NH 000, 00, 1, 2, 3
Speed/Characteristic	gS
I.R. AC (IEC)	160 kA

FEATURES & BENEFITS

- Multiple body sizes
- gS Class according to IEC 60269-4
- Low I^2t for improved semiconductor protection
- Fast acting
- Highly current limiting
- Excellent cycling capability
- Reduced power dissipation
- No derating in standard NH fusegear
- High withstanding against inrush current and overloads

APPLICATIONS

- Protection of inverters, motor drives, UPS systems and similar 700V or less equipments.

STANDARDS

- IEC 60269-4 Compliance
- UL/CSA Recognized Component
- CCC GB 1359.4



Protistor® size NH 000, 00, 1, 2, 3 gS 690VAC

PRODUCT RANGE



NH000GS69V25PV

Size 000 gS 690VAC

Catalog number	Item number	Rated voltage AC (IEC)	Rated voltage AC (UL)	Rated current I _n	Pre-arcing I ² t	Clearing I ² t at Rated Voltage	Rated breaking capacity AC	Power dissipation at I _n	Weight	Package
NH000GS69V16PV	N322035	690 V	700 V	16 A	9 A ² s	45 A ² s	160 kA	5 W	0.1333 kg	3
NH000GS69V20PV	Q322037	690 V	700 V	20 A	10 A ² s	54 A ² s	160 kA	6 W	0.1266 kg	3
NH000GS69V25PV	S322039	690 V	700 V	25 A	18 A ² s	96 A ² s	160 kA	7 W	0.1266 kg	3
NH000GS69V32PV	X322043	690 V	700 V	32 A	39 A ² s	218 A ² s	160 kA	8 W	0.1266 kg	3
NH000GS69V40PV	B322047	690 V	700 V	40 A	69 A ² s	386 A ² s	160 kA	9 W	0.1266 kg	3
NH000GS69V50PV	F322051	690 V	700 V	50 A	136 A ² s	764 A ² s	160 kA	10 W	0.1266 kg	3
NH000GS69V63PV	K322055	690 V	700 V	63 A	275 A ² s	1545 A ² s	160 kA	11 W	0.1266 kg	3
NH000GS69V80PV	P322059	690 V	700 V	80 A	543 A ² s	3055 A ² s	160 kA	13 W	0.1266 kg	3
NH000GS69V100PV	T322063	690 V	700 V	100 A	1063 A ² s	5982 A ² s	160 kA	14 W	0.1266 kg	3



NH00GS69V125PV

Size 00 gS 690VAC

Catalog number	Item number	Rated voltage AC (IEC)	Rated voltage AC (UL)	Rated current I _n	Pre-arcing I ² t	Clearing I ² t at Rated Voltage	Rated breaking capacity AC	Power dissipation at I _n	Weight	Package
NH00GS69V125PV	E322165	690 V	700 V	125 A	2170 A ² s	10850 A ² s	160 kA	16 W	0.2 kg	3
NH00GS69V160PV	J322169	690 V	700 V	160 A	4270 A ² s	21340 A ² s	160 kA	19 W	0.2 kg	3



NH1GS69V125PV

Size 1 gS 690VAC

Catalog number	Item number	Rated voltage AC (IEC)	Rated voltage AC (UL)	Rated current I _n	Pre-arcing I ² t	Clearing I ² t at Rated Voltage	Rated breaking capacity AC	Power dissipation at I _n	Weight	Package
NH1GS69V100PV	V322363	690 V	700 V	100 A	965 A ² s	4820 A ² s	160 kA	19 W	0.4333 kg	3
NH1GS69V125PV	X322365	690 V	700 V	125 A	1705 A ² s	8550 A ² s	160 kA	21 W	0.4333 kg	3
NH1GS69V160PV	B322369	690 V	700 V	160 A	3860 A ² s	19000 A ² s	160 kA	23 W	0.4333 kg	3
NH1GS69V200PV	D322371	690 V	700 V	200 A	7560 A ² s	38000 A ² s	160 kA	26 W	0.4333 kg	3
NH1GS69V250PV	H322375	690 V	700 V	250 A	15420 A ² s	77150 A ² s	160 kA	29 W	0.4333 kg	3
NH1GS69V280PV	L302897	690 V	700 V	280 A	18665 A ² s	93000 A ² s	160 kA	33 W	0.4333 kg	3

Protistor® size NH 000, 00, 1, 2, 3 gS

690VAC

PRODUCT RANGE



NH2GS69V250PV

Size 2 gS 690VAC

Catalog number	Item number	Rated voltage AC (IEC)	Rated voltage AC (UL)	Rated current I _n	Pre-arcing I ² t	Clearing I ² t at Rated Voltage	Rated breaking capacity AC	Power dissipation at I _n	Weight	Package
NH2GS69V160PV	K322469	690 V	700 V	160 A	3460 A ² s	17500 A ² s	160 kA	28 W	0.6433 kg	3
NH2GS69V200PV	M322471	690 V	700 V	200 A	6870 A ² s	34000 A ² s	160 kA	30 W	0.6433 kg	3
NH2GS69V250PV	R322475	690 V	700 V	250 A	12485 A ² s	62000 A ² s	160 kA	33 W	0.6433 kg	3
NH2GS69V315PV	W322479	690 V	700 V	315 A	27945 A ² s	140000 A ² s	160 kA	36 W	0.6433 kg	3
NH2GS69V350PV	X322480	690 V	700 V	350 A	38310 A ² s	191000 A ² s	160 kA	38 W	0.6433 kg	3
NH2GS69V400PV	A322483	690 V	700 V	400 A	54320 A ² s	271000 A ² s	160 kA	41 W	0.6433 kg	3
NH2GS69V450PV	C322485	690 V	700 V	450 A	81125 A ² s	405000 A ² s	160 kA	43 W	0.6433 kg	3



NH3GS69V315PV

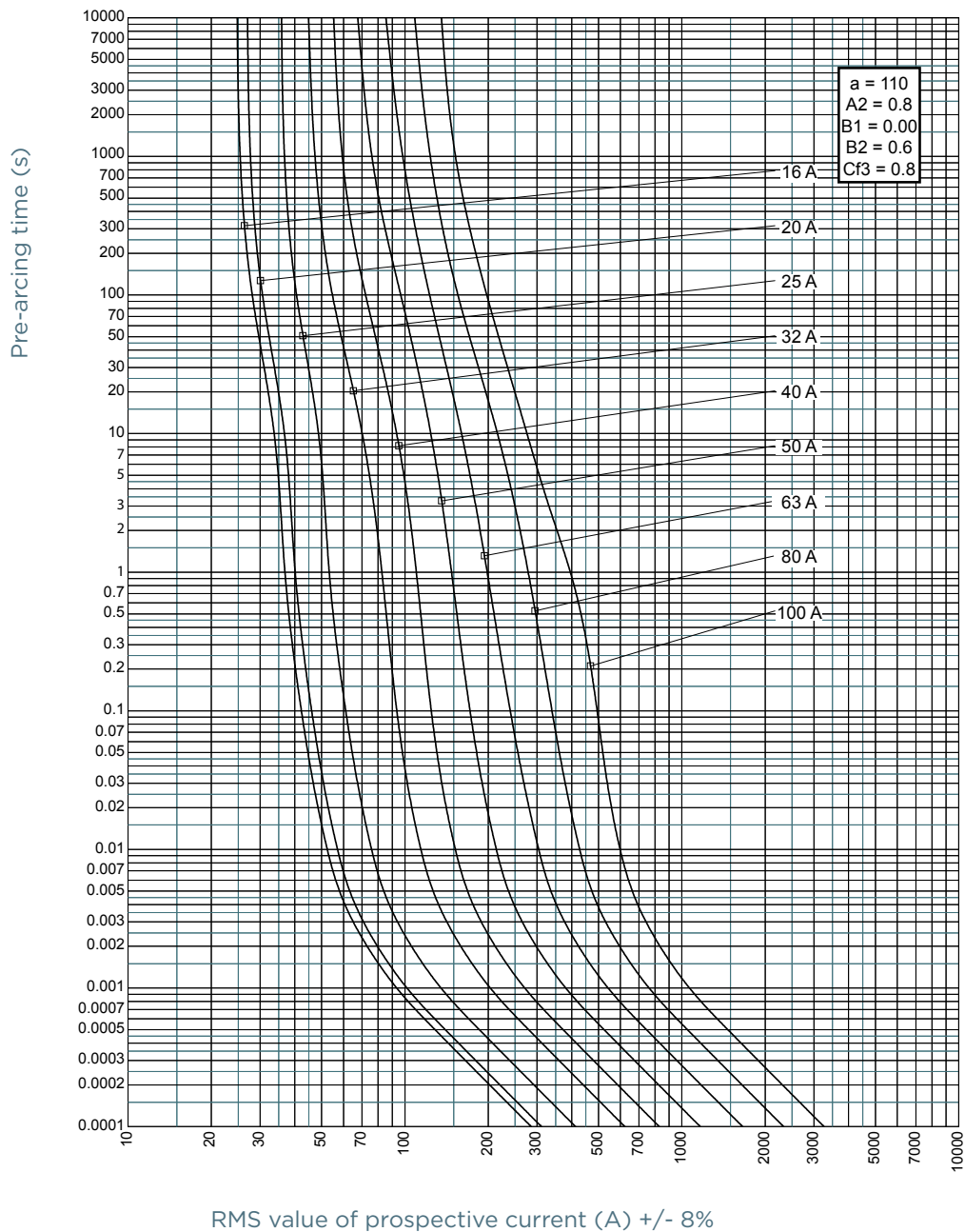
Size 3 gS 690VAC

Catalog number	Item number	Rated voltage AC (IEC)	Rated voltage AC (UL)	Rated current I _n	Pre-arcing I ² t	Clearing I ² t at Rated Voltage	Rated breaking capacity AC	Power dissipation at I _n	Weight	Package
NH3GS69V250PV	R322590	690 V	700 V	250 A	9690 A ² s	48000 A ² s	160 kA	39 W	1.05 kg	1
NH3GS69V315PV	E322579	690 V	700 V	315 A	19525 A ² s	97000 A ² s	160 kA	42 W	1.05 kg	1
NH3GS69V350PV	F322580	690 V	700 V	350 A	28135 A ² s	140000 A ² s	160 kA	44 W	1.05 kg	1
NH3GS69V400PV	J322583	690 V	700 V	400 A	42050 A ² s	210000 A ² s	160 kA	47 W	1.05 kg	1
NH3GS69V450PV	L322585	690 V	700 V	450 A	58675 A ² s	293000 A ² s	160 kA	50 W	1.05 kg	1
NH3GS69V500PV	N322587	690 V	700 V	500 A	87030 A ² s	435100 A ² s	160 kA	52 W	1.05 kg	1
NH3GS69V550PV	P322588	690 V	700 V	550 A	111810 A ² s	559000 A ² s	160 kA	56 W	1.05 kg	1
NH3GS69V630PV	Q322589	690 V	700 V	630 A	149950 A ² s	749000 A ² s	160 kA	63 W	1.05 kg	1

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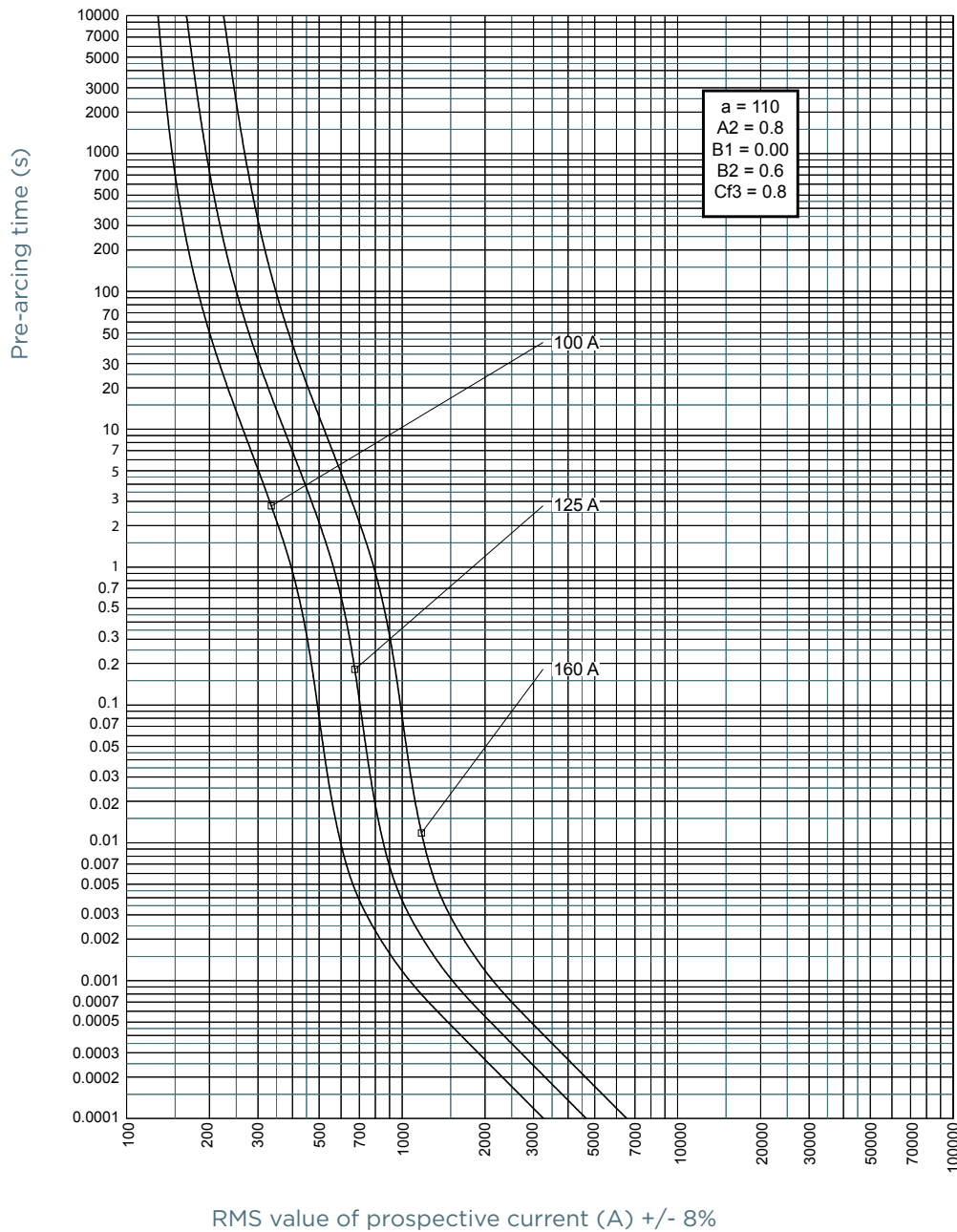
TIME CURRENT CHARACTERISTIC CURVES

Size 000



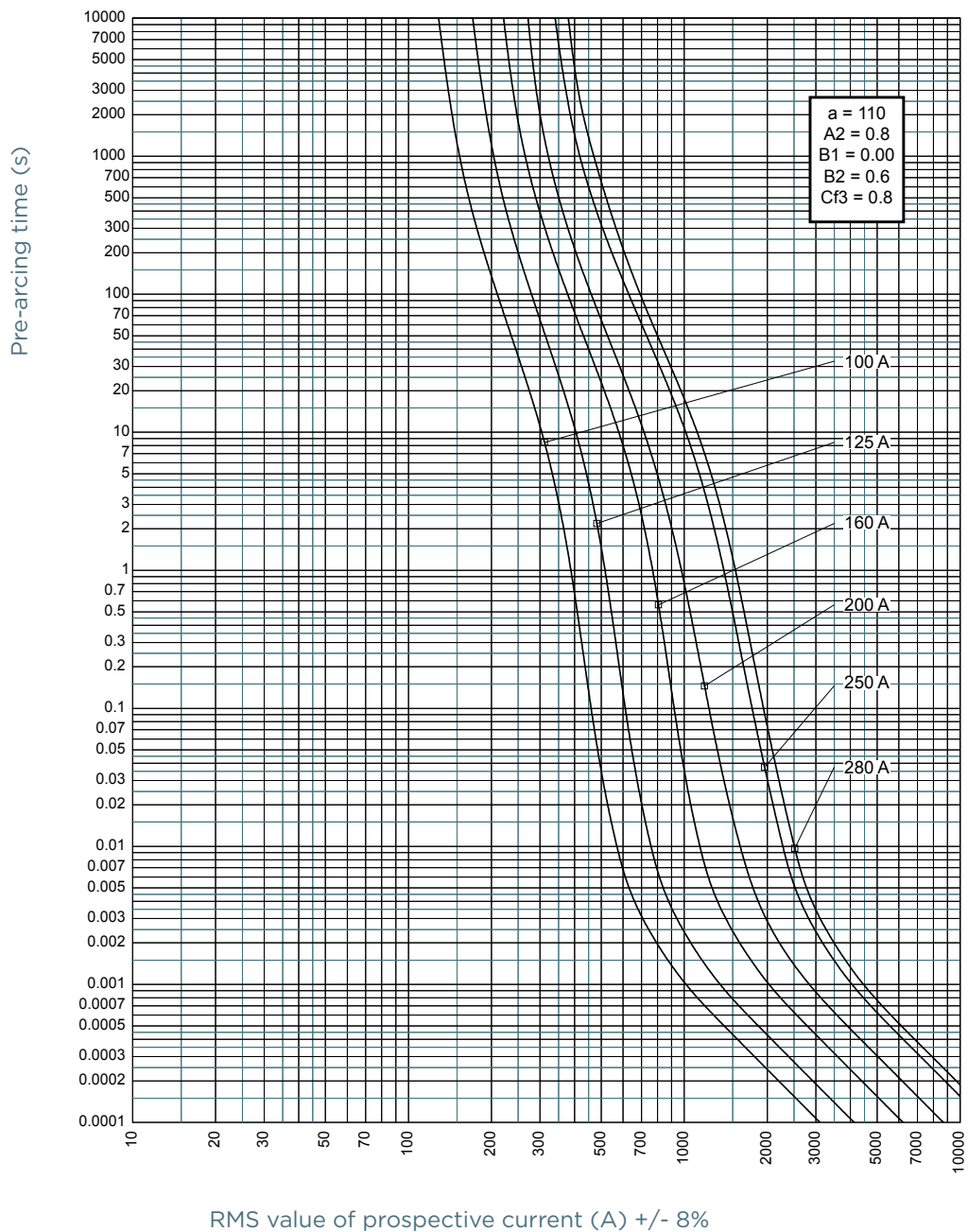
TIME CURRENT CHARACTERISTIC CURVES

Size 00



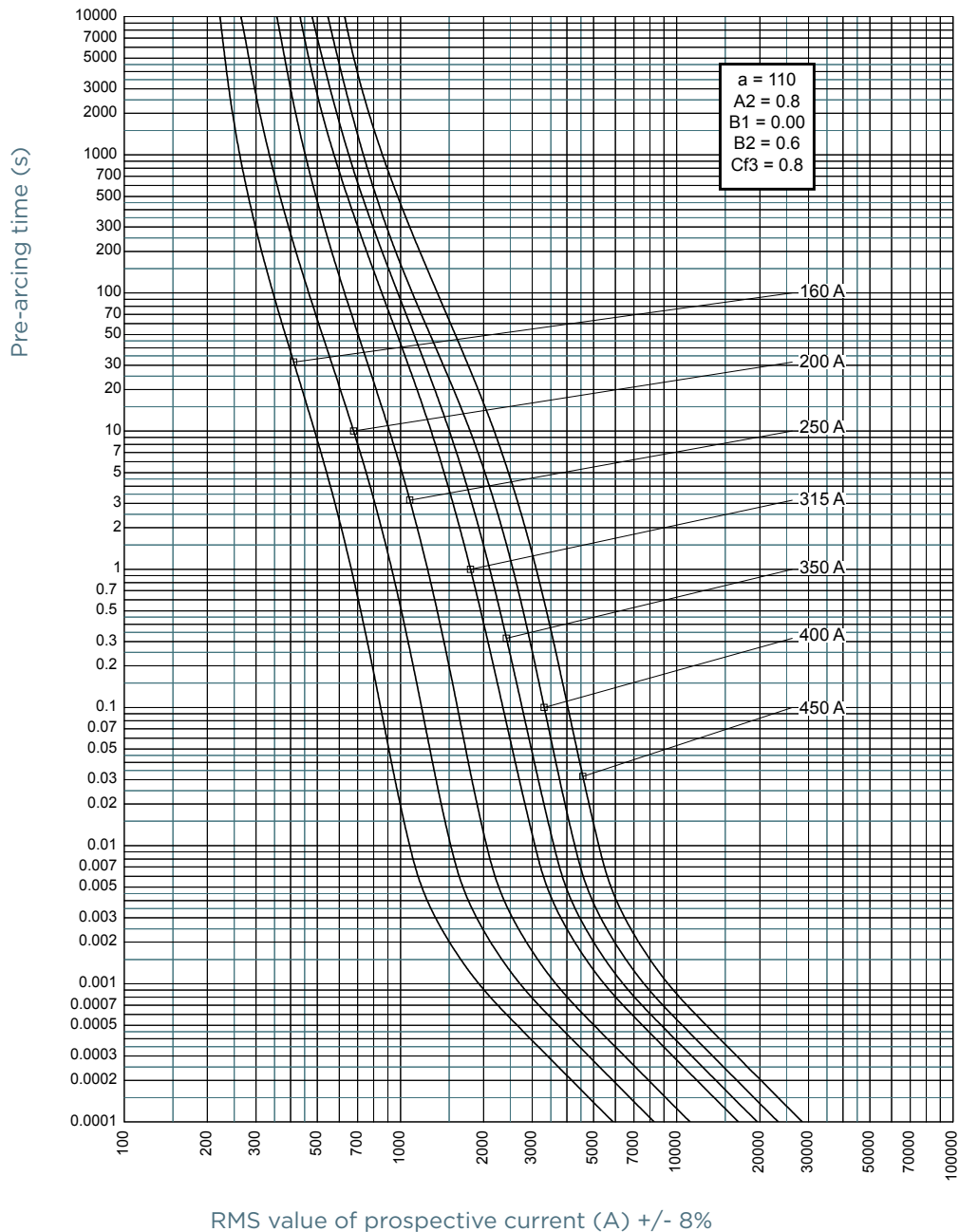
TIME CURRENT CHARACTERISTIC CURVES

Size 1



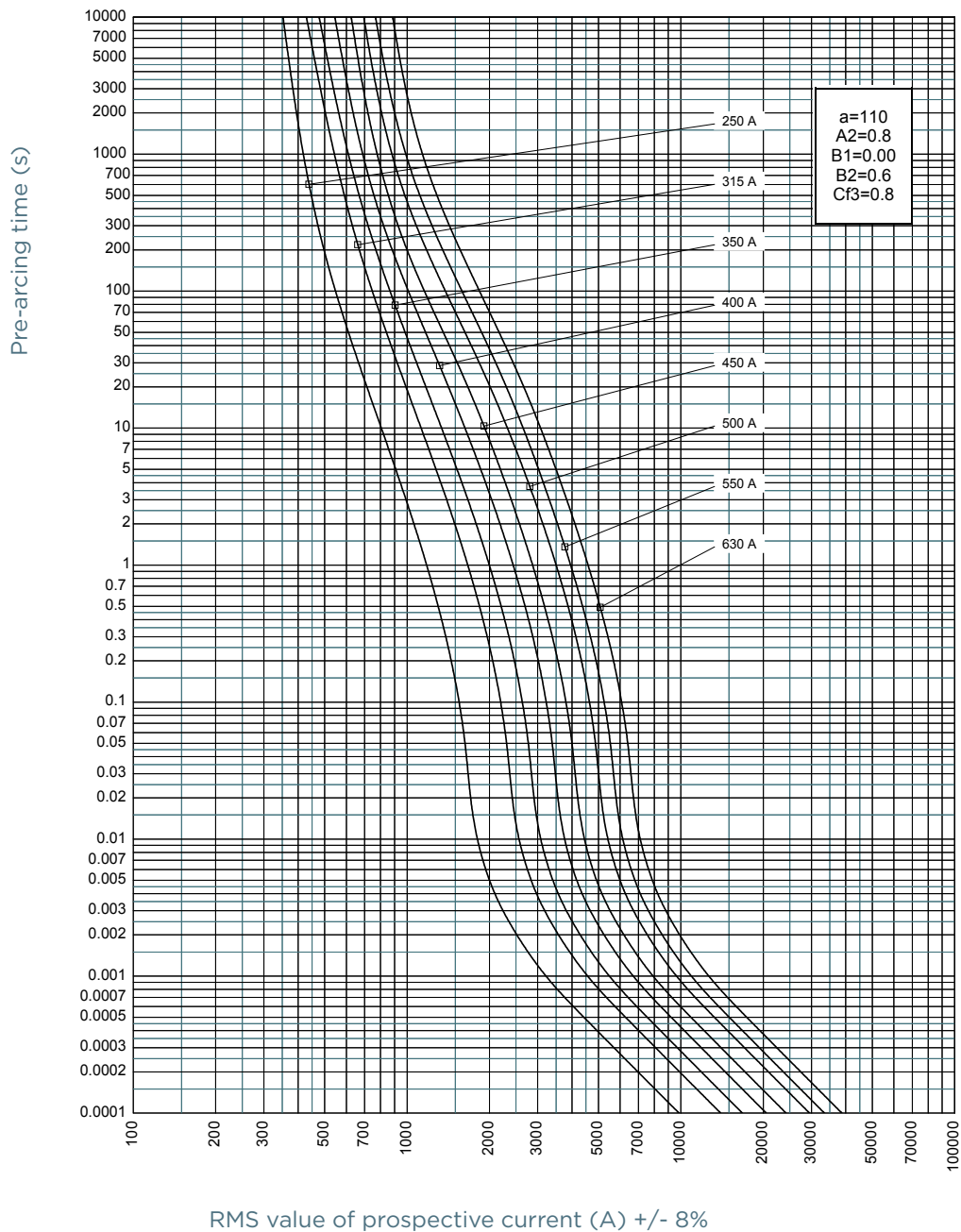
TIME CURRENT CHARACTERISTIC CURVES

Size 2



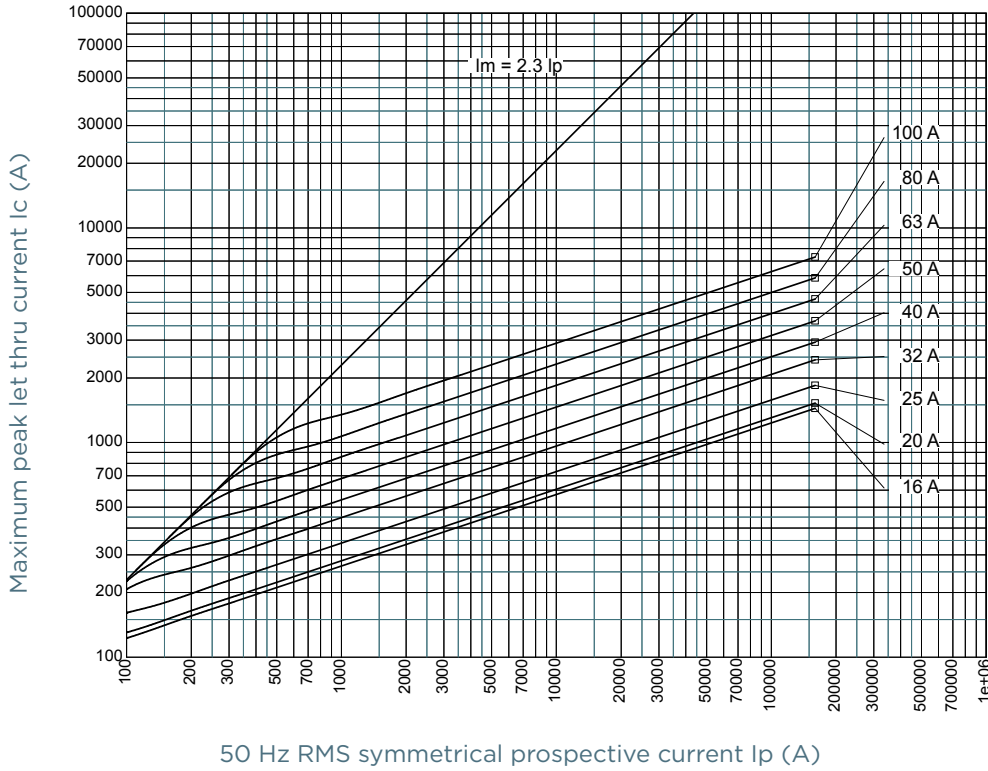
TIME CURRENT CHARACTERISTIC CURVES

Size 3

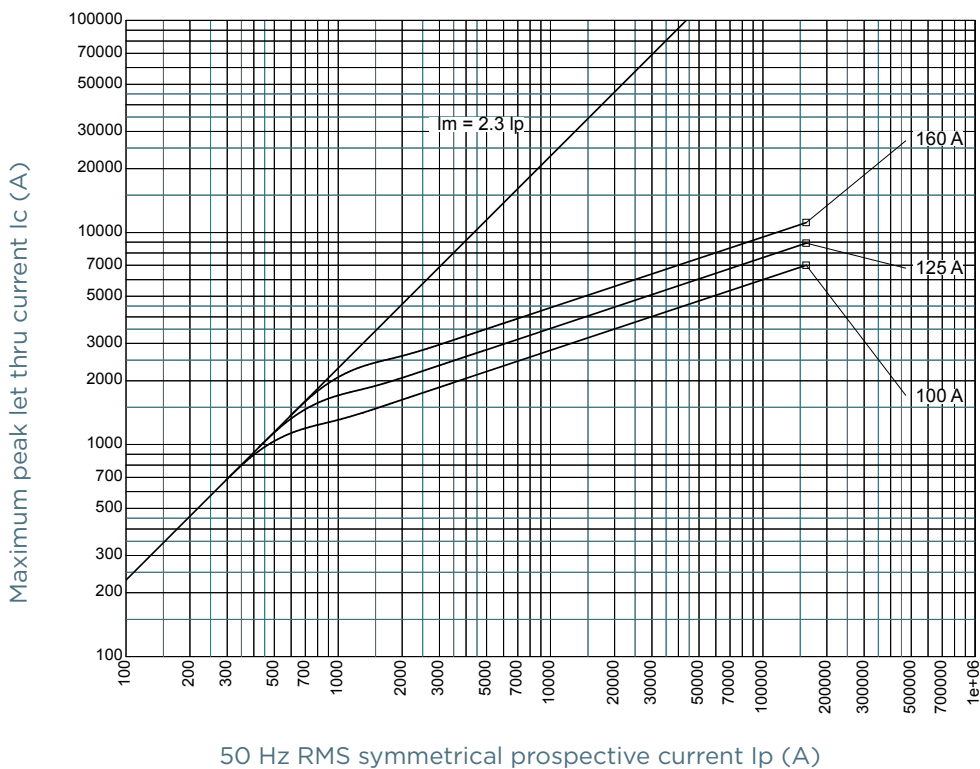


CUT-OFF CURRENT CHARACTERISTIC

Size 000

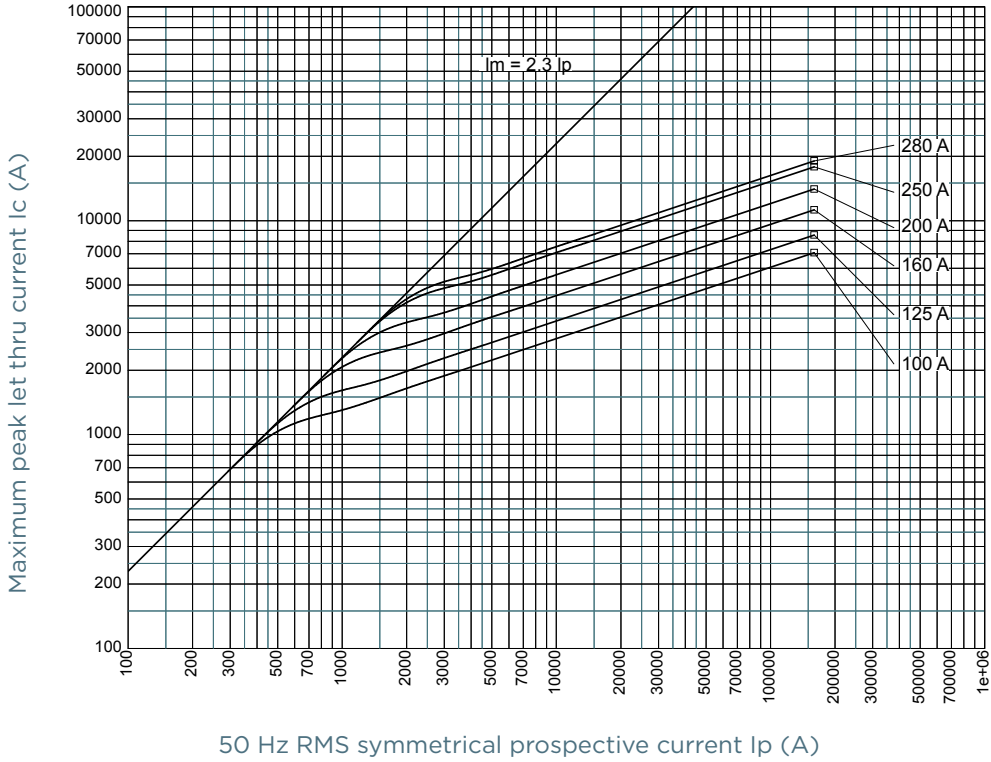


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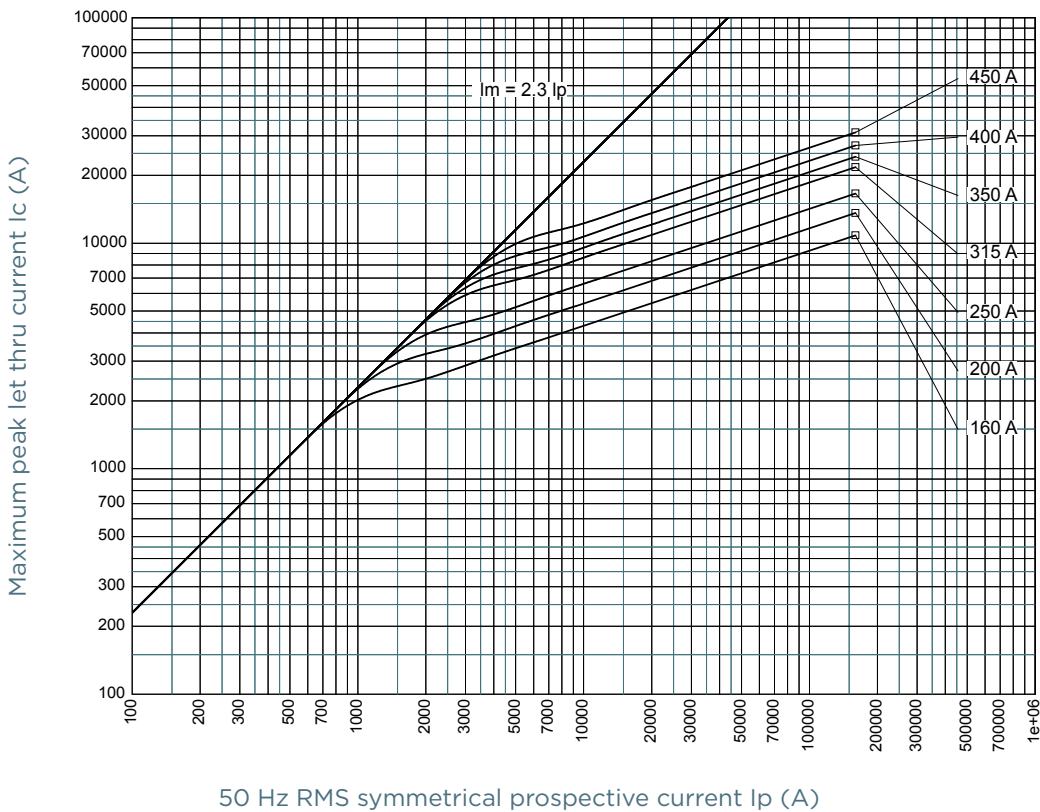


CUT-OFF CURRENT CHARACTERISTIC

Size 1

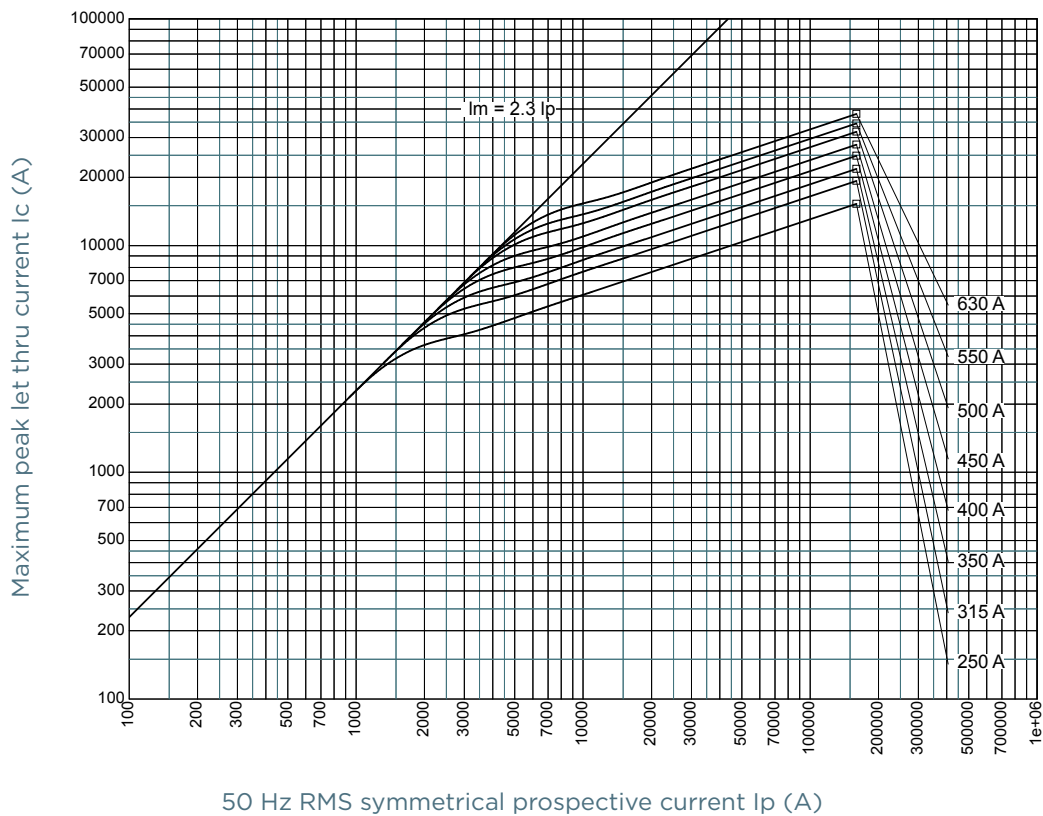


Size 2



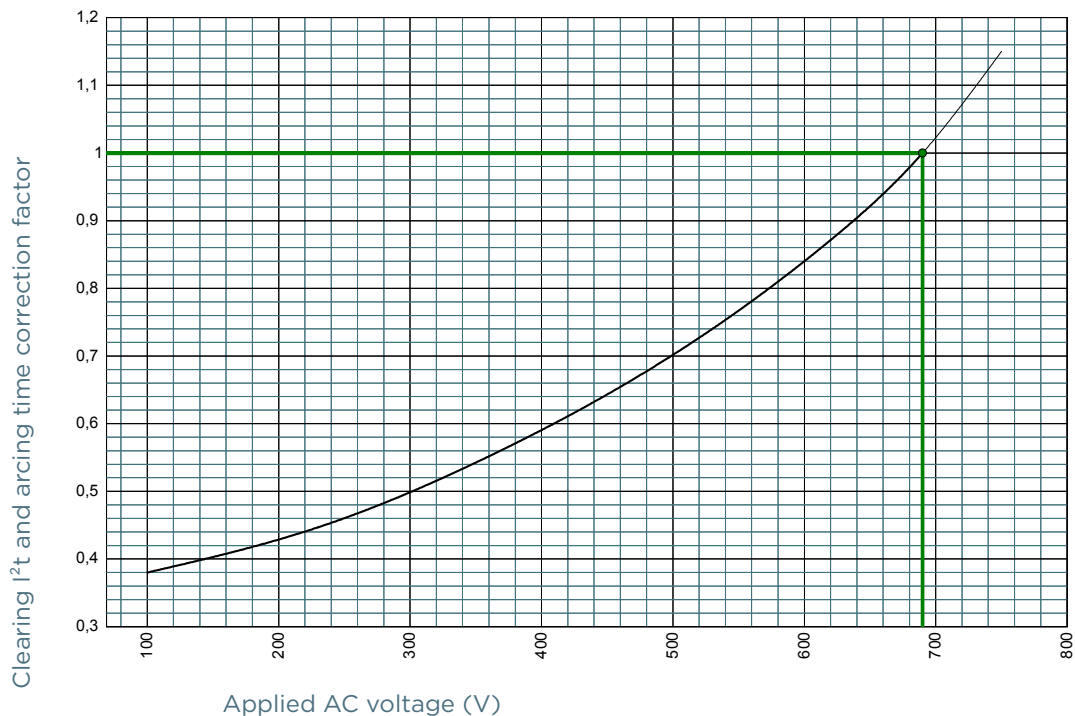
CUT-OFF CURRENT CHARACTERISTIC

Size 3



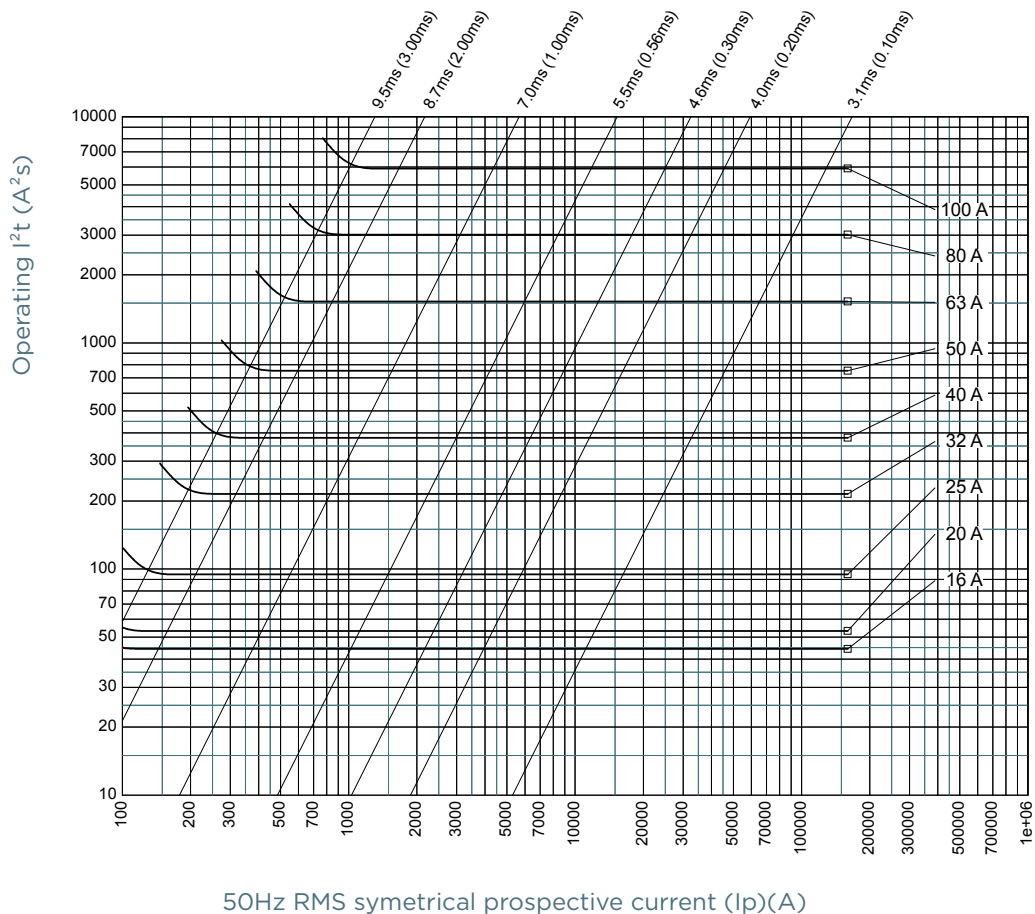
I²T MULTIPLIER COEFFICIENT

Sizes 000, 00, 1, 2, 3



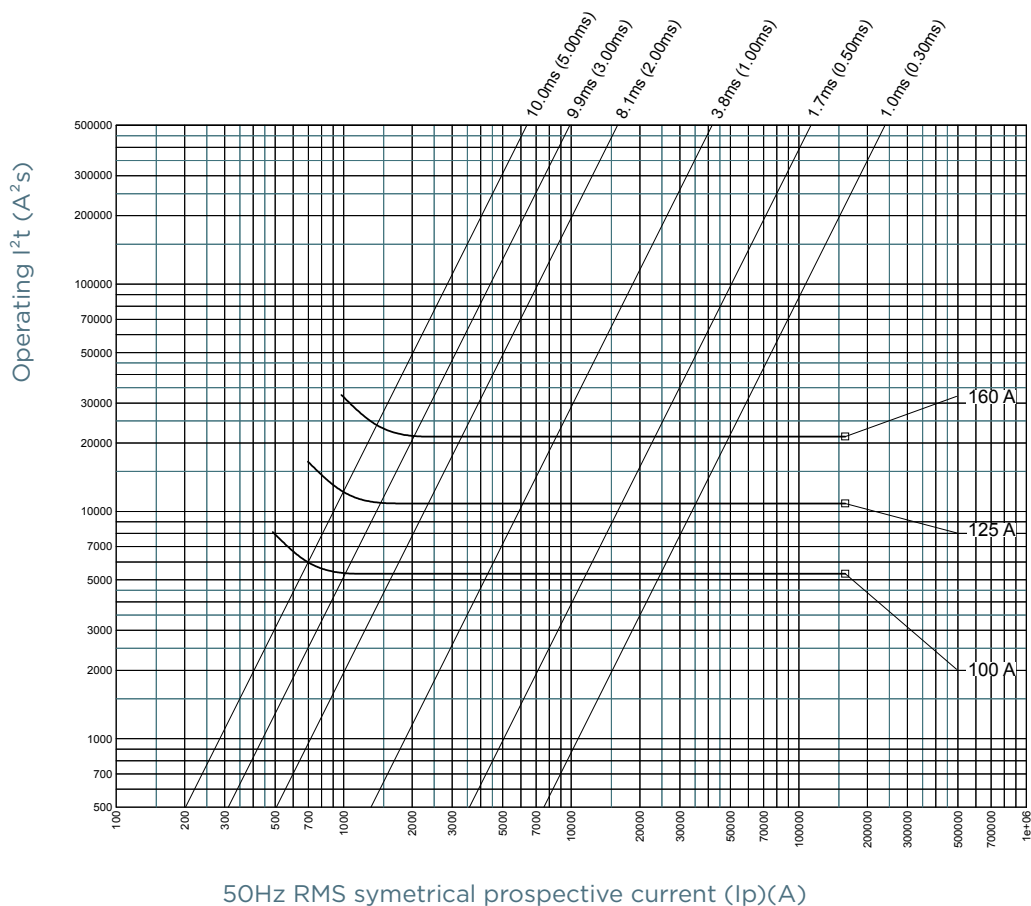
CHARACTERISTICS TOTAL I²T CURVE

Size 000



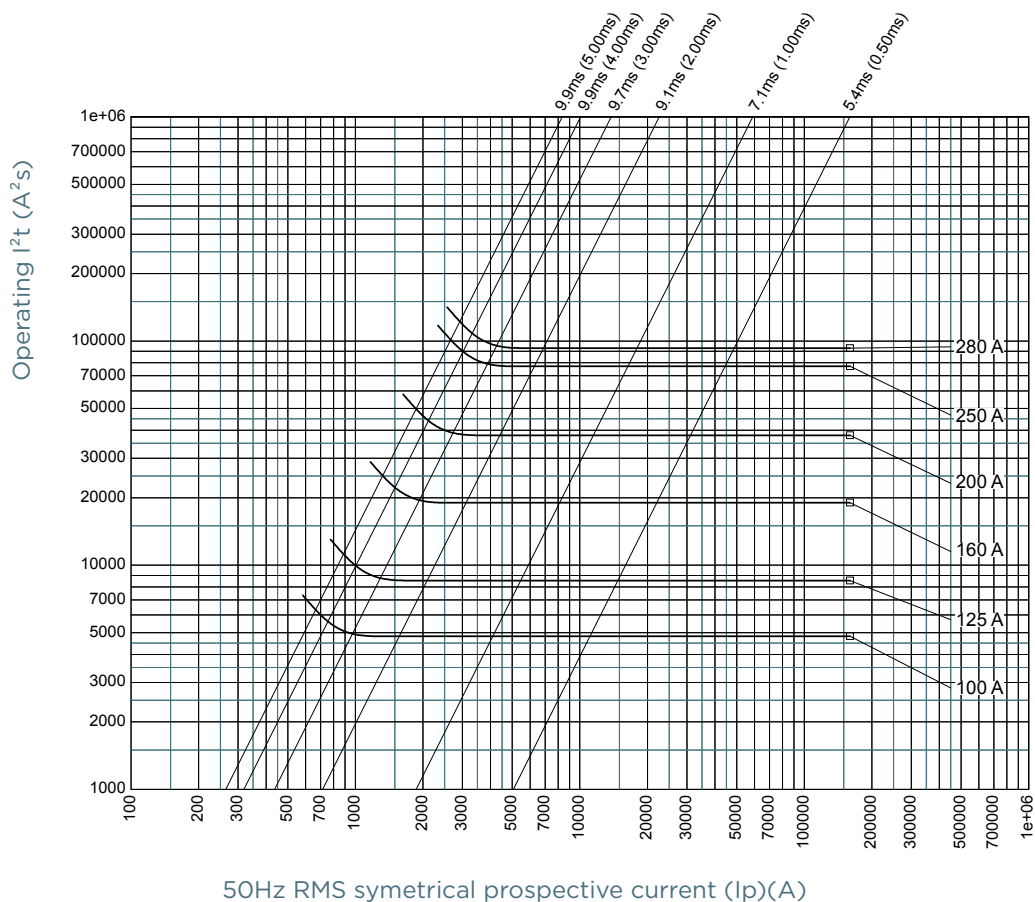
CHARACTERISTICS TOTAL I²T CURVE

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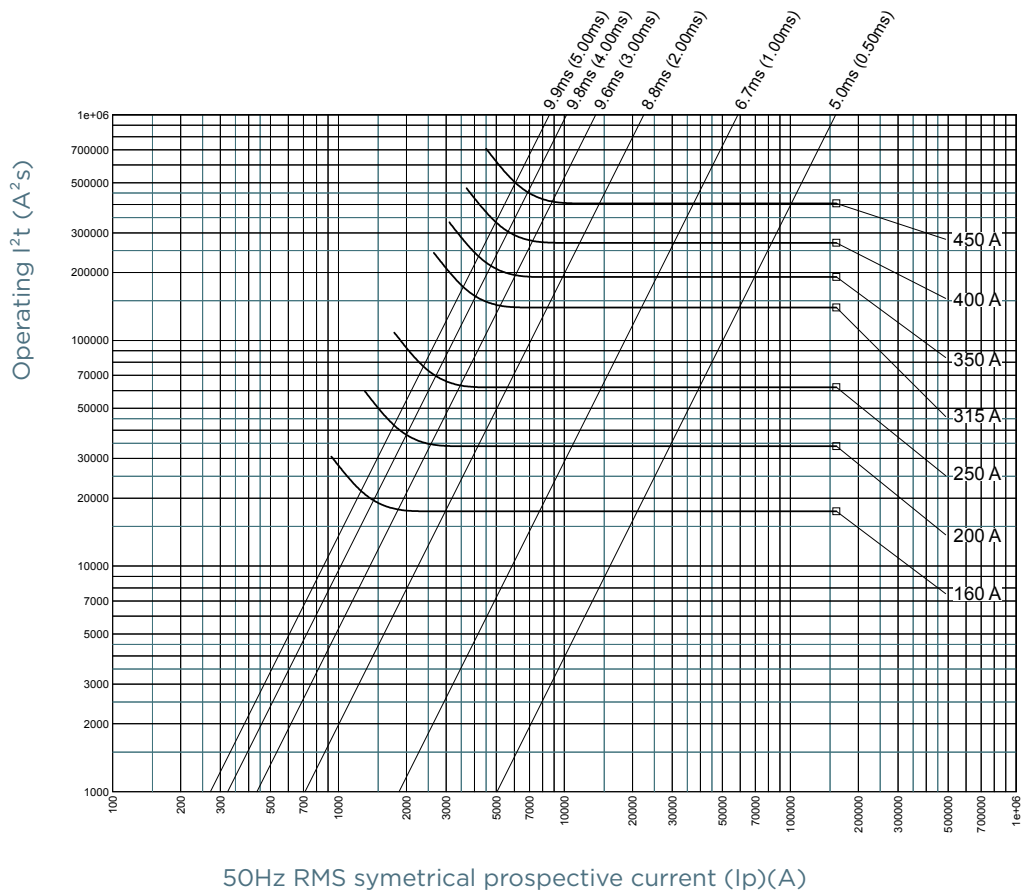
CHARACTERISTICS TOTAL I²T CURVE

Size 1



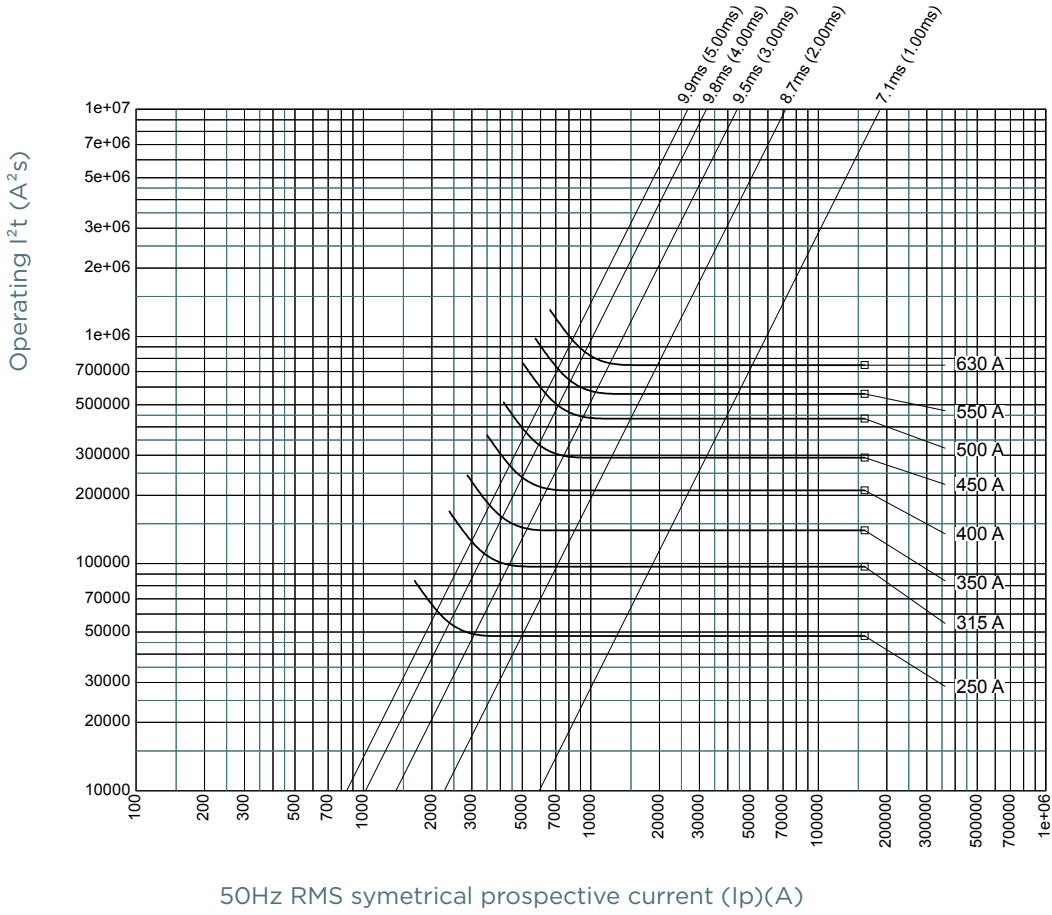
CHARACTERISTICS TOTAL I²T CURVE

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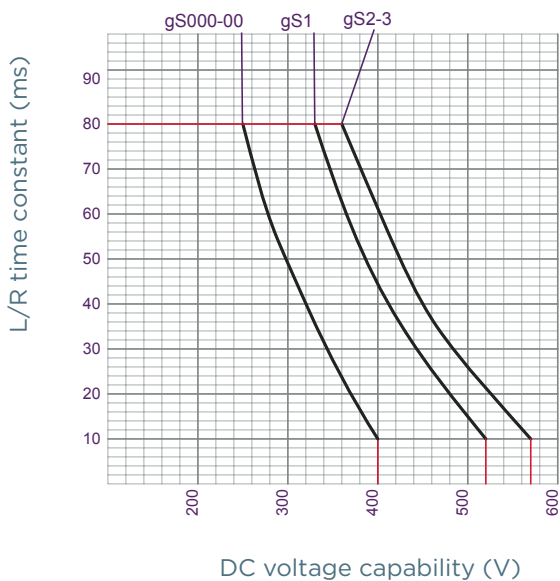


CHARACTERISTICS TOTAL I²T CURVE

Size 3



L/R TIME CONSTANT VS DC VOLTAGE CAPABILITY

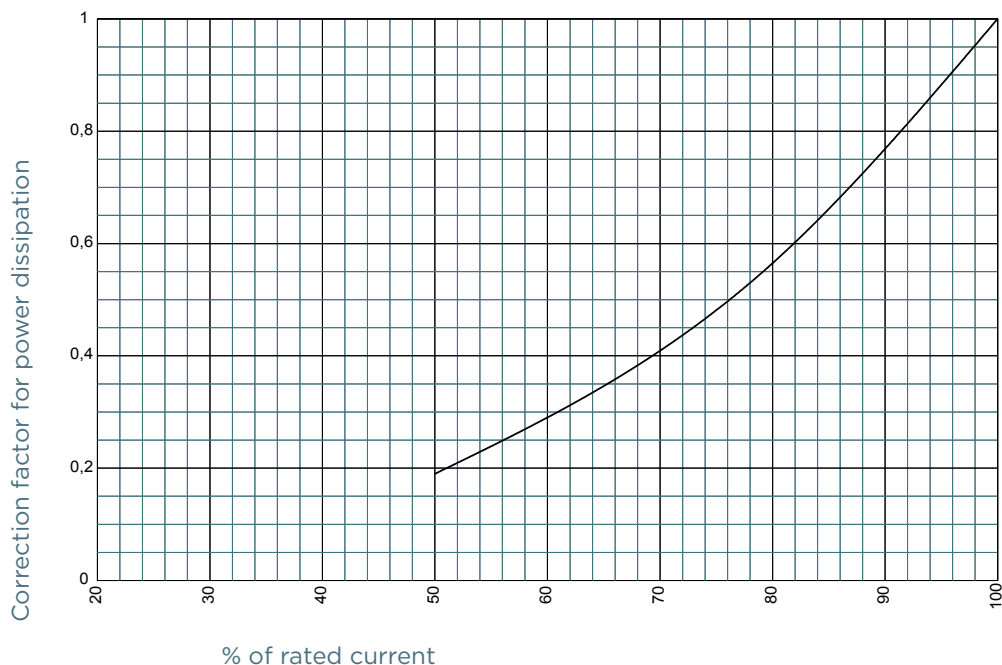


Protistor® size NH 000, 00, 1, 2, 3 gS

690VAC

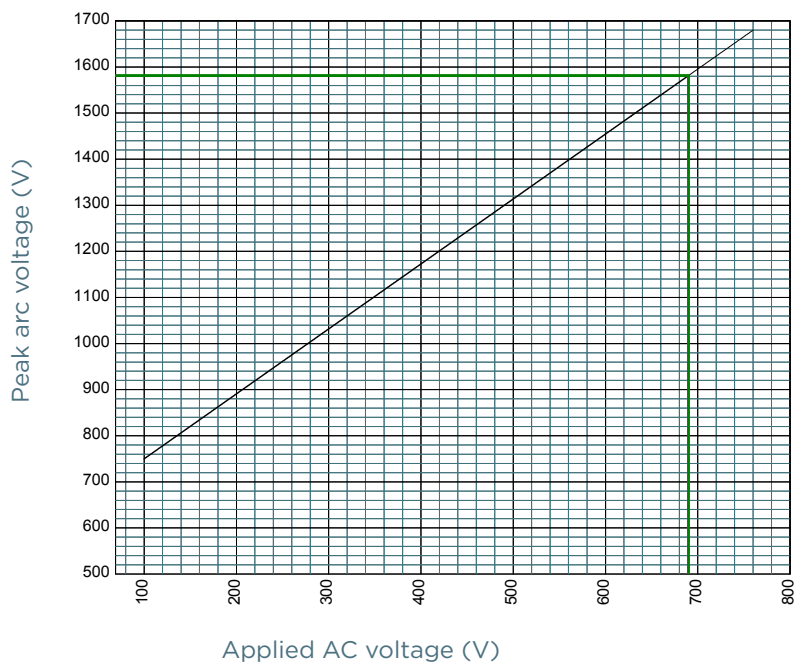
POWER DISSIPATION

Sizes 000, 00, 1, 2, 3



PEAK ARC VOLTAGE

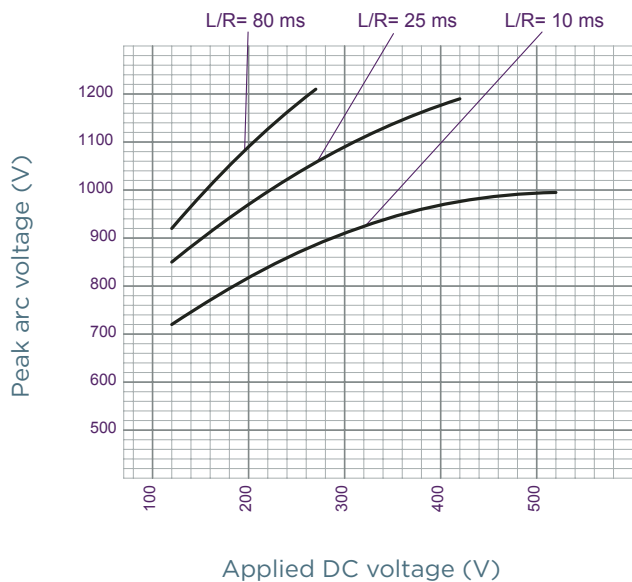
Sizes 000, 00, 1, 2, 3 VAC



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PEAK ARC VOLTAGE

Sizes 000, 00, 1, 2, 3 VDC

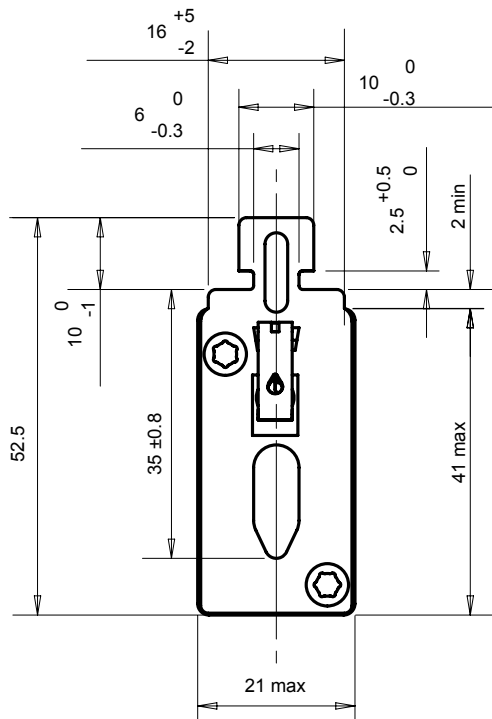
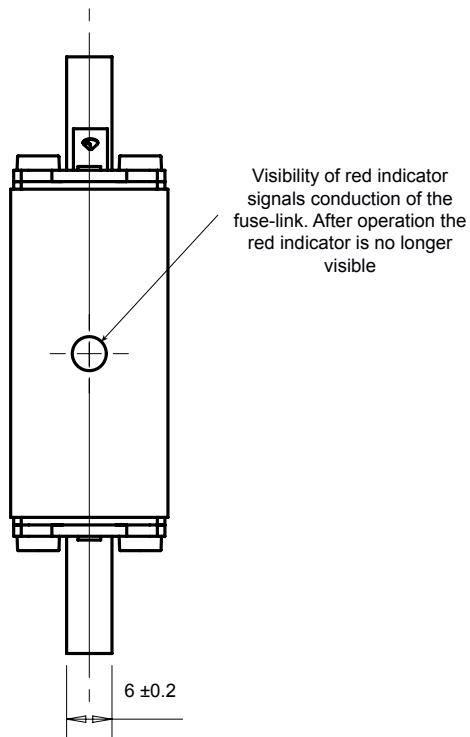


Protistor® size NH 000, 00, 1, 2, 3 gS

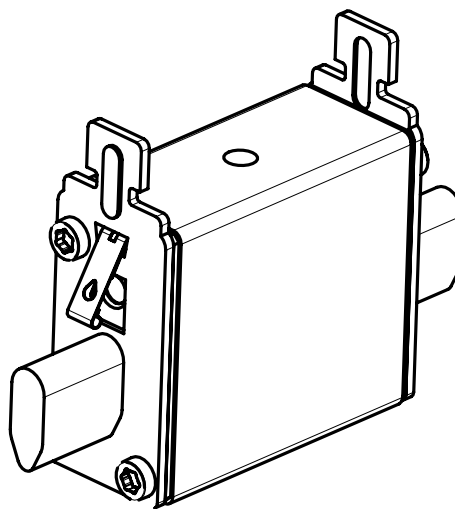
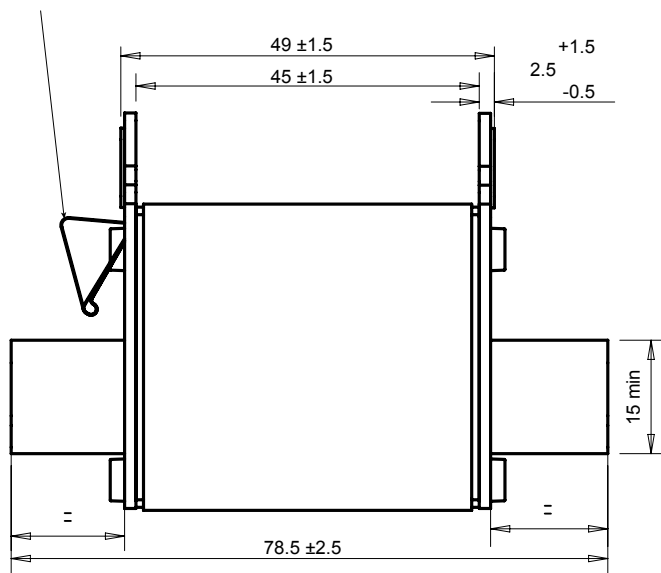
690VAC

DIMENSIONS

Size 000



Indicator lever is visible after operation of fuse



Dimensions in mm

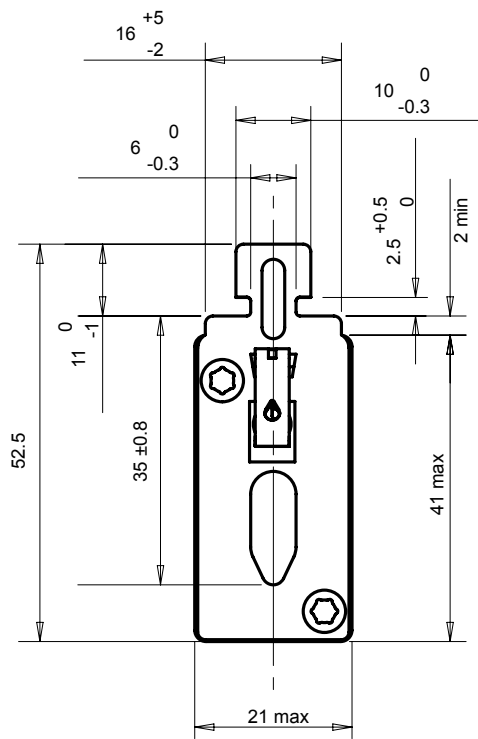
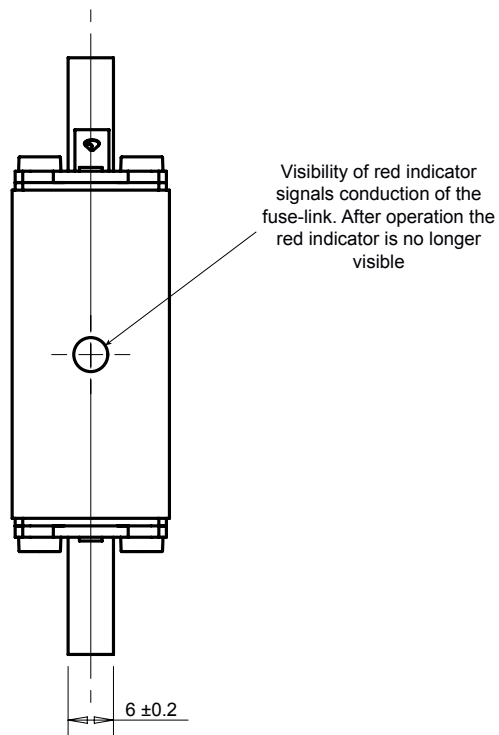
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Protistor® size NH 000, 00, 1, 2, 3 gS

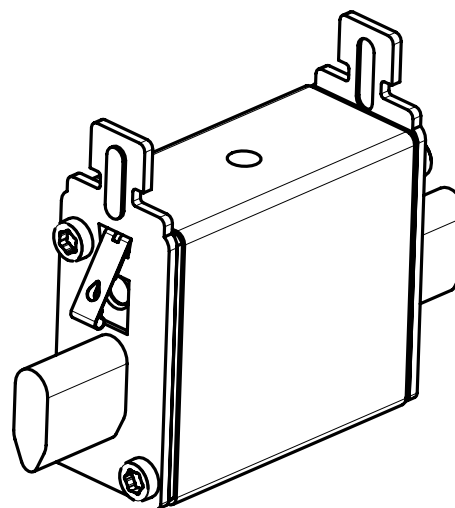
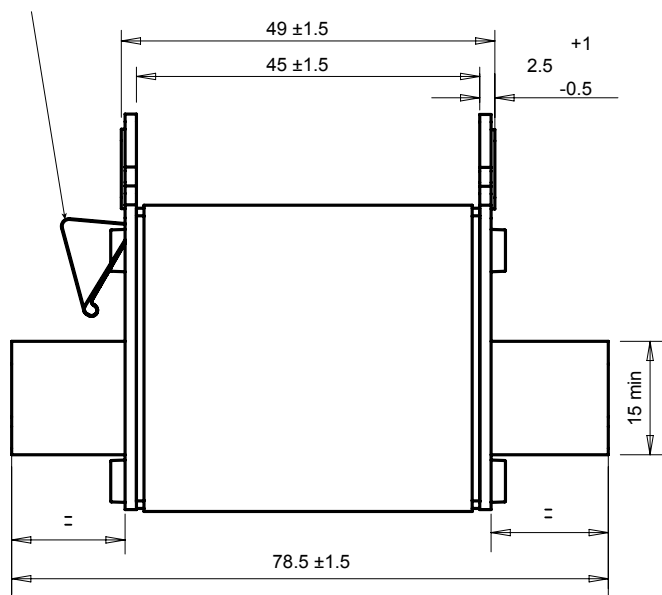
690VAC

DIMENSIONS

Size 00



Indicator lever is visible after operation of fuse



Dimensions in mm

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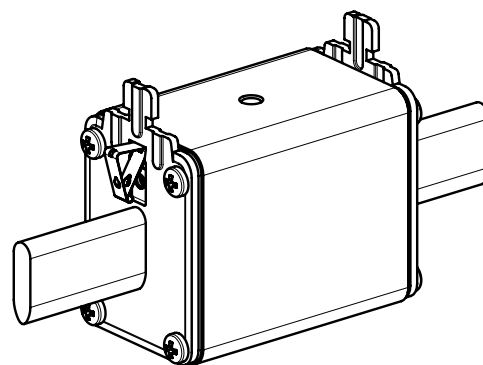
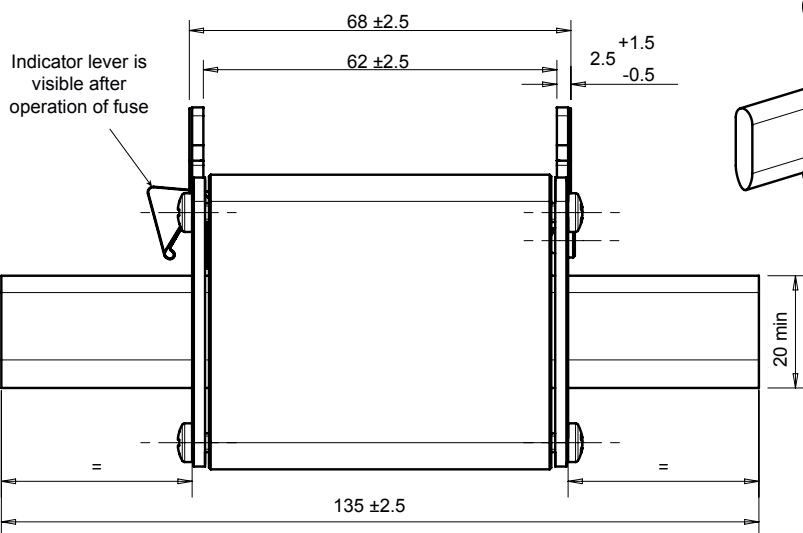
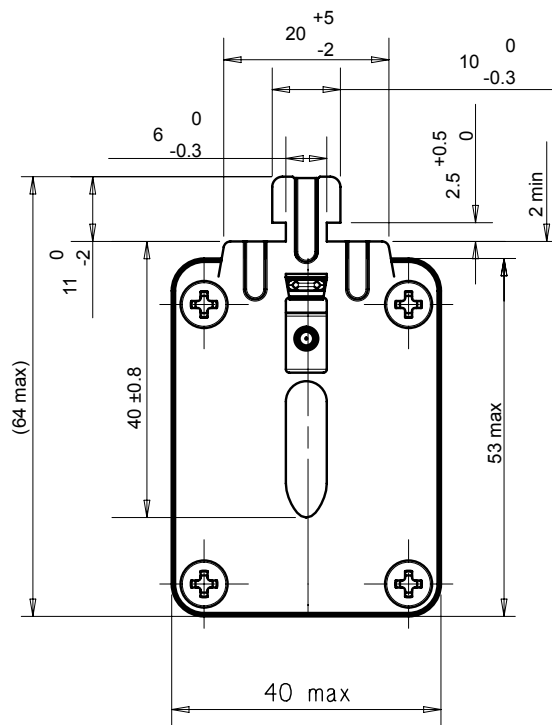
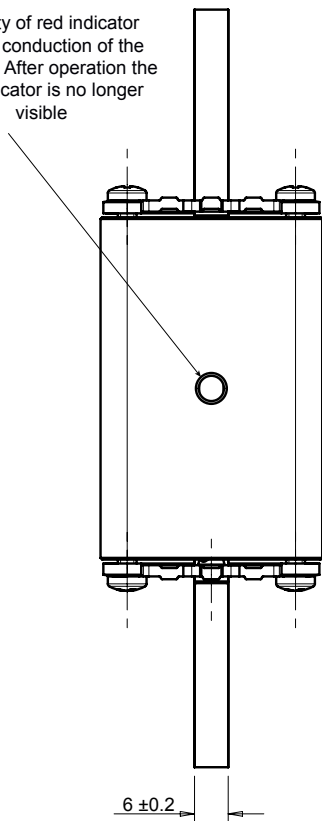
Protistor® size NH 000, 00, 1, 2, 3 gS

690VAC

DIMENSIONS

Size 1

Visibility of red indicator signals conduction of the fuse-link. After operation the red indicator is no longer visible



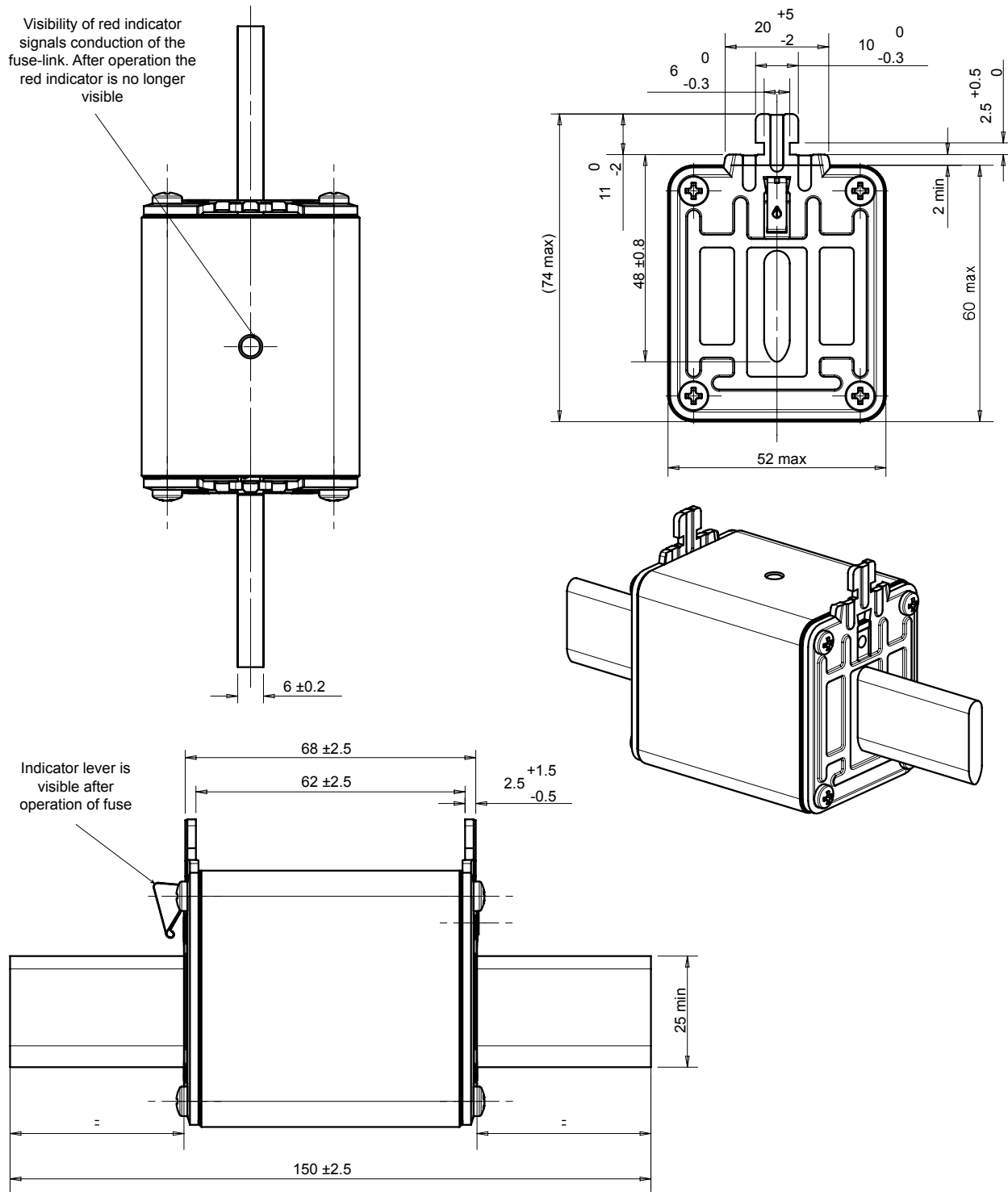
Dimensions in mm

Protistor® size NH 000, 00, 1, 2, 3 gS

690VAC

DIMENSIONS

Size 2



Dimensions in mm

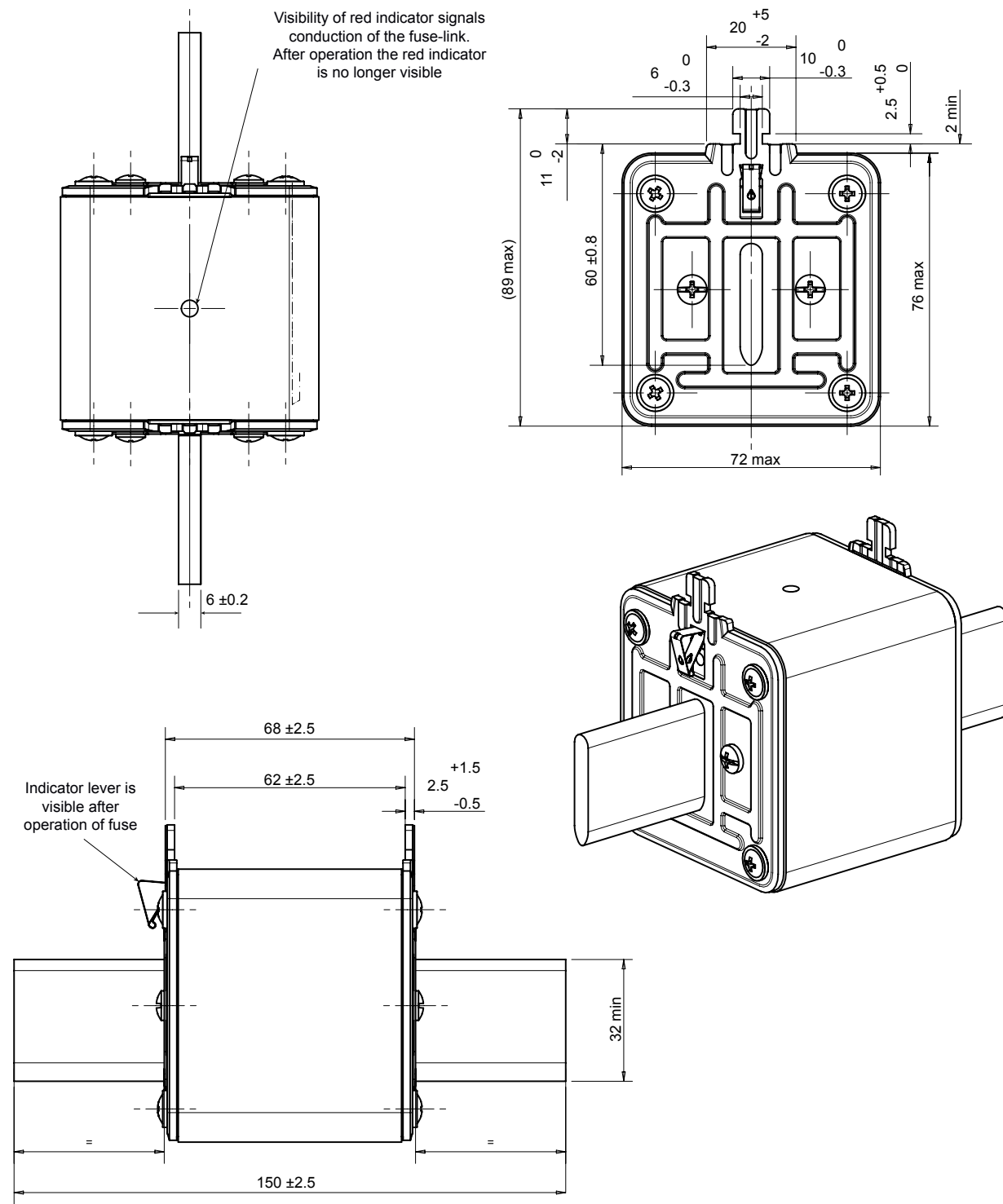
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Protistor® size NH 000, 00, 1, 2, 3 gS

690VAC

DIMENSIONS

Size 3



Dimensions in mm

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