Protistor[®] size 000/00 aR

SEMICONDUCTOR PROTECTION FUSES

SQUARE BODY HIGH-SPEED FUSE-LINKS AC PROTECTION



The 690/700V 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 I²t 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

Voltage Range AC	500 690 VAC
Ampere Range (A)	16 400 A
Size per Standard	000, 00
Speed/Characteristic	aR
I.R. AC (IEC)	120 kA 200 kA

FEATURES & BENEFITS

- aR Class according to IEC 60269-4 and VDE 636-23
- Very low I²t for improved semiconductor protection
- Ultra fast acting
- Superior cycling capability

APPLICATIONS

• Protection of inverters, motor drives, UPS systems and similar 690V or less equipments.

STANDARDS

- IEC 60269-4 Compliance
- UL/CSA Recognized Component
- AC: UL Guide No. E76491



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DN000UB69V315

Size 000 DIN80, vertical body, without indicator

Catalog number	ltem number	Rated voltage AC (IEC)	Rated current In	Pre-arcing I ² t	Clearing I ² t at Rated Voltage	Rated breaking capacity AC	Power dissipation at In	Package	Weight
DN000UB69V80	K330036	690 V	80 A	390 A²s	2500 A ² s	200 kA	21 W	6	0.13 kg
DN000UB69V100	L330037	690 V	100 A	690 A²s	4200 A ² s	200 kA	23 W	6	0.13 kg
DN000UB69V125	M330038	690 V	125 A	1310 A²s	8900 A ² s	200 kA	26 W	6	0.13 kg
DN000UB69V160	N330039	690 V	160 A	2680 A²s	16000 A ² s	200 kA	31 W	6	0.13 kg
DN000UB69V200	P330040	690 V	200 A	5250 A²s	31500 A ² s	200 kA	36 W	6	0.13 kg
DN000UB69V250	Q330041	690 V	250 A	9860 A²s	52000 A ² s	200 kA	45 W	6	0.13 kg
DN000UB69V315	R330042	690 V	315 A	15420 A²s	82000 A ² s	200 kA	58 W	6	0.13 kg
DN000UB50V350	V330114	500 V	350 A	22400 A ² s	110000 A ² s	120 kA	58 W	6	0.13 kg
DN000UB50V400	D330191	500 V	400 A	33180 A²s	160000 A ² s	120 kA	66 W	6	0.13 kg



DN000UB69V160V

Size 000 DIN80, vertical body, with indicator

Catalog number	ltem number	Rated voltage AC (IEC)	Rated current In	Pre-arcing I ² t	Clearing I ² t at Rated Voltage	Rated breaking capacity AC	Power dissi- pation at In	Package	Weight
DN000UB69V80V	W330023	690 V	80 A	390 A²s	2500 A²s	200 kA	21 W	6	0.13 kg
DN000UB69V100V	X330024	690 V	100 A	690 A²s	4200 A ² s	200 kA	23 W	6	0.13 kg
DN000UB69V125V	Y330025	690 V	125 A	1310 A²s	8900 A ² s	200 kA	26 W	6	0.13 kg
DN000UB69V160V	Z330026	690 V	160 A	2680 A²s	16000 A ² s	200 kA	31 W	6	0.13 kg
DN000UB69V200V	A330027	690 V	200 A	5250 A²s	31500 A ² s	200 kA	36 W	6	0.13 kg
DN000UB69V250V	B330028	690 V	250 A	9860 A²s	52000 A ² s	200 kA	45 W	6	0.13 kg
DN000UB69V315V	C330029	690 V	315 A	15420 A²s	82000 A ² s	200 kA	58 W	6	0.13 kg
DN000UB50V350V	W330115	500 V	350 A	22400 A²s	110000 A ² s	120 kA	58 W	6	0.13 kg
DN000UB50V400V	E330192	500 V	400 A	33180 A²s	160000 A²s	120 kA	66 W	6	0.13 kg







DN000UB50V400L

Size 000 DIN80, vertical body, for monitoring micro-contact

Catalog number	ltem number	Rated voltage AC (IEC)	Rated current In	Pre-arcing I ² t	Clearing I ² t at Rated Voltage	Rated breaking capacity AC	Power dissi- pation at I _n	Package	Weight
DN000UB69V80L	T330182	690 V	80 A	390 A²s	2500 A²s	200 kA	21 W	6	0.13 kg
DN000UB69V100L	V330183	690 V	100 A	690 A²s	4200 A ² s	200 kA	23 W	6	0.13 kg
DN000UB69V125L	W330184	690 V	125 A	1310 A²s	8900 A ² s	200 kA	26 W	6	0.13 kg
DN000UB69V160L	X330185	690 V	160 A	2680 A²s	16000 A ² s	200 kA	31 W	6	0.13 kg
DN000UB69V200L	Y330186	690 V	200 A	5250 A²s	31500 A²s	200 kA	36 W	6	0.13 kg
DN000UB69V250L	Z330187	690 V	250 A	9860 A²s	52000 A²s	200 kA	45 W	6	0.13 kg
DN000UB69V315L	A330188	690 V	315 A	15420 A²s	82000 A ² s	200 kA	58 W	6	0.13 kg
DN000UB50V350L	B330189	500 V	350 A	22400 A ² s	110000 A ² s	120 kA	58 W	6	0.13 kg
DN000UB50V400L	F330193	500 V	400 A	33180 A²s	160000 A²s	120 kA	66 W	6	0.13 kg



BS000UB50V400

Size 000 BS88, horizontal body, without indicator

Catalog number	ltem number	Rated voltage AC (IEC)	Rated current In	Pre-arcing I ² t	Clearing I²t at Rated Voltage	Rated breaking capacity AC	Power dissipation at In	Package	Weight
BS000UB69V75	B330051	690 V	75 A	340 A²s	2250 A ² s	200 kA	20.5 W	3	0.14 kg
BS000UB69V80	C330052	690 V	80 A	390 A²s	2500 A ² s	200 kA	21 W	3	0.14 kg
BS000UB69V100	D330053	690 V	100 A	690 A²s	4200 A ² s	200 kA	23 W	3	0.14 kg
BS000UB69V110	E330100	690 V	110 A	950 A²s	6800 A ² s	200 kA	24.5 W	3	0.14 kg
BS000UB69V125	E330054	690 V	125 A	1310 A²s	8900 A ² s	200 kA	26 W	3	0.14 kg
BS000UB69V160	F330055	690 V	160 A	2680 A²s	16000 A ² s	200 kA	31 W	3	0.14 kg
BS000UB69V200	G330056	690 V	200 A	5250 A²s	31500 A ² s	200 kA	36 W	3	0.14 kg
BS000UB69V250	H330057	690 V	250 A	9860 A²s	52000 A ² s	200 kA	45 W	3	0.14 kg
BS000UB69V315	J330058	690 V	315 A	15420 A²s	82000 A ² s	200 kA	58 W	3	0.14 kg
BS000UB50V350	X330116	500 V	350 A	22400 A ² s	110000 A ² s	120 kA	58 W	3	0.14 kg
BS000UB50V400	G330194	500 V	400 A	33180 A ² s	160000 A ² s	120 kA	66 W	3	0.14 kg







BS000UB69V315P

Size 000 BS88, horizontal body, with indicator

Catalog number	ltem number	Rated voltage AC (IEC)	Rated current In	Pre-arcing I ² t	Clearing I ² t at Rated Voltage	Rated breaking capacity AC	Power dissi- pation at In	Package	Weight
BS000UB69V75P	H330126	690 V	75 A	340 A²s	2250 A²s	200 kA	20.5 W	3	0.16 kg
BS000UB69V80P	J330127	690 V	80 A	390 A²s	2500 A²s	200 kA	21 W	3	0.16 kg
BS000UB69V100P	K330128	690 V	100 A	690 A²s	4200 A ² s	200 kA	23 W	3	0.16 kg
BS000UB69V110P	L330129	690 V	110 A	950 A²s	6800 A²s	200 kA	24.5 W	3	0.16 kg
BS000UB69V125P	M330130	690 V	125 A	1310 A²s	8900 A ² s	200 kA	26 W	3	0.16 kg
BS000UB69V160P	P330132	690 V	160 A	2680 A²s	16000 A ² s	200 kA	31 W	3	0.16 kg
BS000UB69V200P	Q330133	690 V	200 A	5250 A²s	31500 A²s	200 kA	36 W	3	0.16 kg
BS000UB69V250P	R330134	690 V	250 A	9860 A²s	52000 A²s	200 kA	45 W	3	0.16 kg
BS000UB69V315P	S330135	690 V	315 A	15420 A²s	82000 A ² s	200 kA	58 W	3	0.16 kg
BS000UB50V350P	T330136	500 V	350 A	22400 A ² s	110000 A ² s	120 kA	58 W	3	0.16 kg
BS000UB50V400P	H330195	500 V	400 A	33180 A²s	160000 A ² s	120 kA	66 W	3	0.16 kg



DN00UB69V400L

Size 00 DIN80, vertical body, for monitoring micro-contact

Catalog number	ltem number	Rated voltage AC (IEC)	Rated current In	Pre-arcing I ² t	Clearing I²t at Rated Voltage	Rated breaking capacity AC	Power dissipation at In	Package	Weight
DN00UB69V16L	V330275	690 V	16 A	7 A²s	52 A²s	200 kA	7 W	3	0.20 kg
DN00UB69V20L	T330274	690 V	20 A	10 A²s	75 A²s	200 kA	9 W	3	0.20 kg
DN00UB69V25L	M330268	690 V	25 A	15 A²s	120 A ² s	200 kA	11 W	3	0.20 kg
DN00UB69V32L	N330269	690 V	32 A	32 A²s	210 A ² s	200 kA	15 W	3	0.20 kg
DN00UB69V40L	P330270	690 V	40 A	61 A²s	400 A ² s	200 kA	18 W	3	0.20 kg
DN00UB69V50L	Q330271	690 V	50 A	102 A ² s	700 A ² s	200 kA	21 W	3	0.20 kg
DN00UB69V63L	R330272	690 V	63 A	177 A²s	1200 A ² s	200 kA	23 W	3	0.20 kg
DN00UB69V80L	D330237	690 V	80 A	390 A²s	2200 A ² s	200 kA	25 W	3	0.20 kg
DN00UB69V100L	E330238	690 V	100 A	692 A²s	3900 A ² s	200 kA	28 W	3	0.20 kg
DN00UB69V125L	F330239	690 V	125 A	1170 A²s	6600 A ² s	200 kA	33 W	3	0.20 kg
DN00UB69V160L	G330240	690 V	160 A	2680 A²s	14000 A ² s	200 kA	36 W	3	0.20 kg
DN00UB69V200L	H330241	690 V	200 A	4690 A ² s	24000 A ² s	200 kA	42 W	3	0.20 kg
DN00UB69V250L	J330242	690 V	250 A	8300 A²s	42500 A ² s	200 kA	50 W	3	0.20 kg
DN00UB69V315L	K330243	690 V	315 A	17520 A²s	81000 A ² s	200 kA	58 W	3	0.20 kg
DN00UB69V350L	L330244	690 V	350 A	25450 A²s	118000 A ² s	200 kA	60 W	3	0.20 kg
DN00UB69V400L	M330245	690 V	400 A	33180 A²s	150000 A ² s	200 kA	70 W	3	0.20 kg





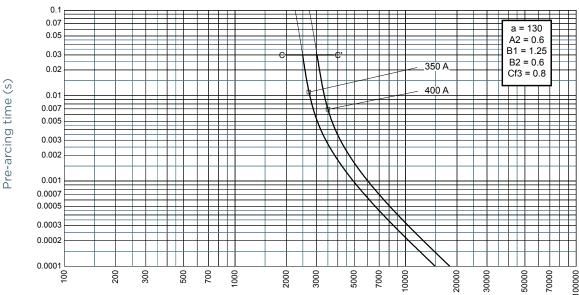


DN00UB69V400D1L

Power dissipation Rated voltage AC (IEC) Clearing I²t at Rated Voltage Rated breaking capacity AC Pre-arcing I²t Weight Package numbei numbei current Ir at In DN00UB69V80D1L A330257 690 V 80 A 390 A²s 2200 A²s 200 kA 25 W 0.24 kg 3 DN00UB69V100D1L B330258 690 V 100 A 692 A²s 3900 A²s 200 kA 28 W 0.24 kg 3 DN00UB69V125D1L C330259 690 V 125 A 1170 A²s 6600 A²s 200 kA 33 W 0.24 kg 3 DN00UB69V160D1L D330260 690 V 160 A 2680 A²s 14000 A²s 200 kA 36 W 3 0.24 kg DN00UB69V200D1L E330261 690 V 200 A 4690 A²s 24000 A²s 200 kA 42 W 3 0.24 kg DN00UB69V250D1L F330262 690 V 250 A 8300 A²s 42500 A²s 200 kA 50 W 3 0.24 kg DN00UB69V315D1L G330263 690 V 315 A 17520 A²s 81000 A²s 200 kA 58 W 3 0.24 kg DN00UB69V350D1L H330264 690 V 350 A 25450 A²s 118000 A²s 200 kA 60 W 3 0.24 kg DN00UB69V400D1L J330265 690 V 400 A 33180 A²s 150000 A²s 200 kA 70 W 3 0.24 kg

Size 00 DIN110, vertical body, for monitoring micro-contact

TIME CURRENT CHARACTERISTIC CURVES



Size 000, 500VAC



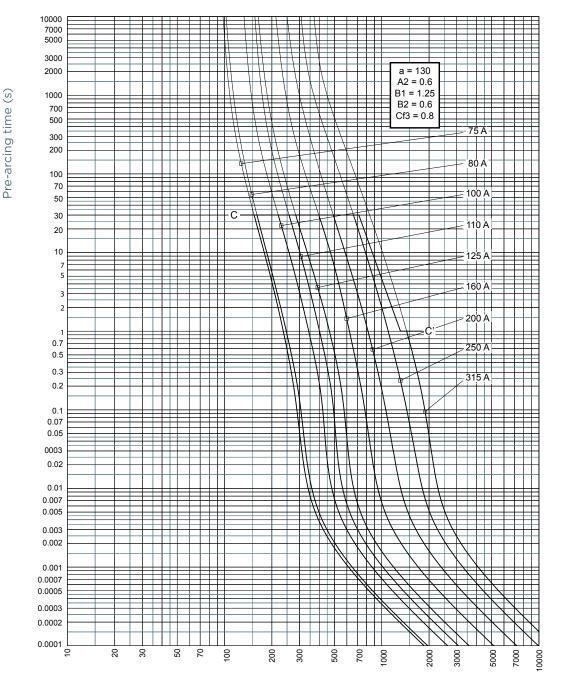


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TIME CURRENT CHARACTERISTIC CURVES

Size 000, 690VAC





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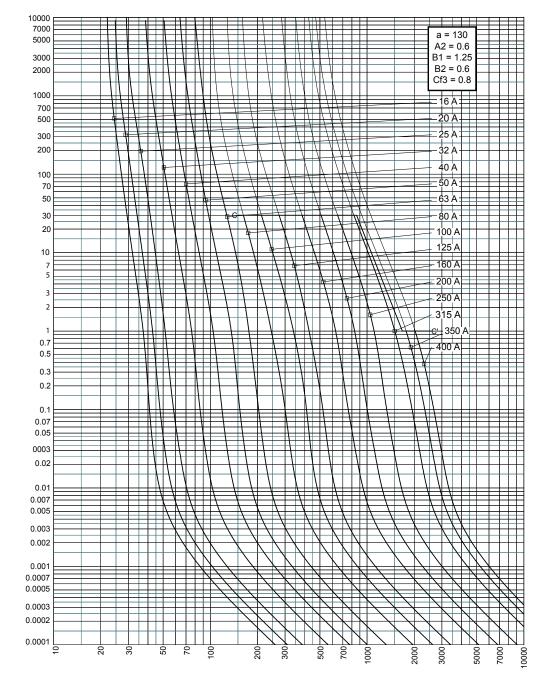




TIME CURRENT CHARACTERISTIC CURVES

Size 00, 690VAC

Pre-arcing time (s)





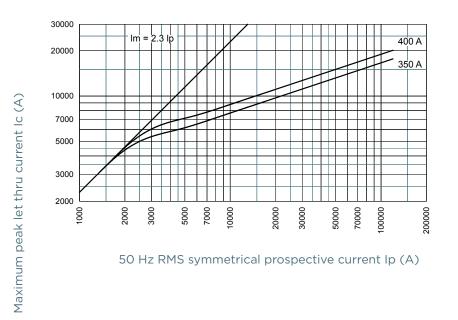
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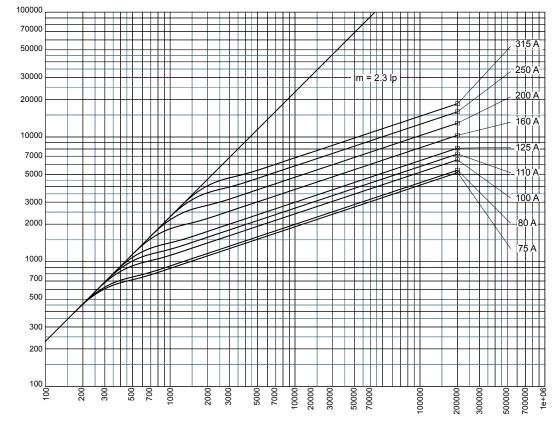
CUT-OFF CURRENT CHARACTERISTIC

Size 000, 500VAC



Size 000, 690VAC

Maximum peak let thru current lc (A)



50 Hz RMS symmetrical prospective current Ip (A)

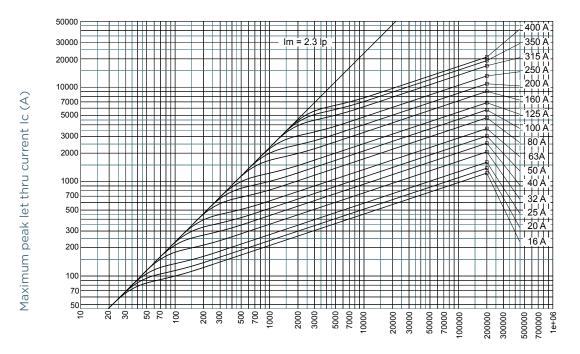
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CUT-OFF CURRENT CHARACTERISTIC

Size 00, 690VAC



⁵⁰ Hz RMS symmetrical prospective current Ip (A)

I²T MULTIPLIER COEFFICIENT

Size 000, 500VAC 1,1 1 Clearing I²t and arcing time correction factor 0,9 0,8 0,7 0,6 0,5 0,4 0.3 200 õ 8 60 80 Applied AC voltage (V)

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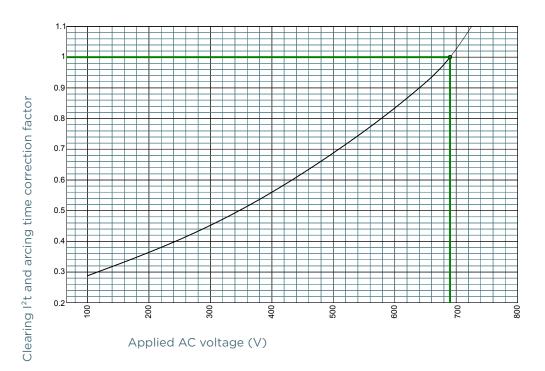
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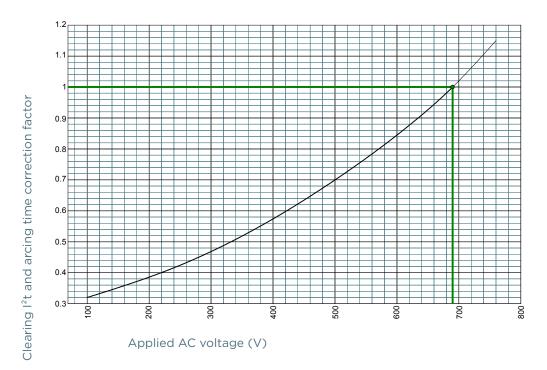


I²T MULTIPLIER COEFFICIENT

Size 000, 690VAC



Size 00, 690VAC



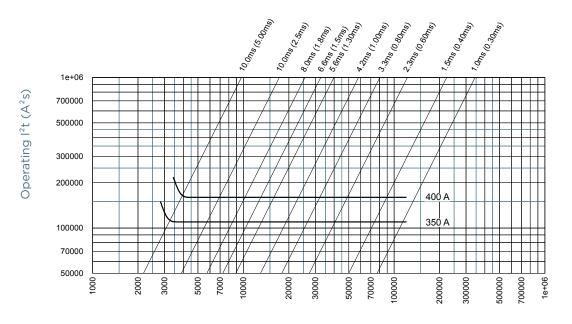
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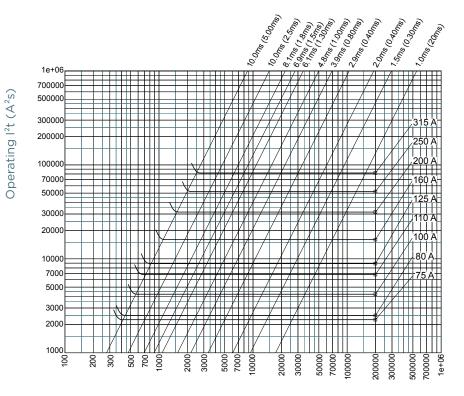
CHARACTERISTICS TOTAL I²T CURVE

Size 000, 500VAC



⁵⁰Hz RMS symetrical prospective current (Ip)(A)

Size 000, 690VAC



50Hz RMS symetrical prospective current (Ip)(A)

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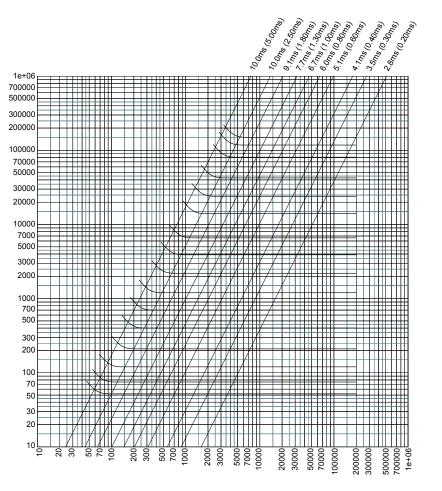




CHARACTERISTICS TOTAL I²T CURVE

Size 00, 690VAC

Operating I²t (A²s)



50Hz RMS symetrical prospective current (Ip)(A)

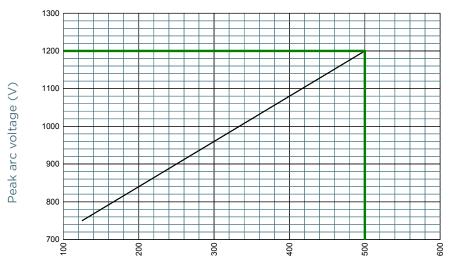
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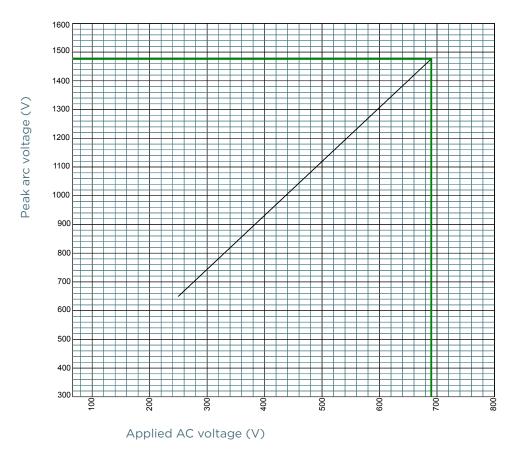


PEAK ARC VOLTAGE

Size 000, 500VAC



Applied AC voltage (V)



Size 000, 690VAC

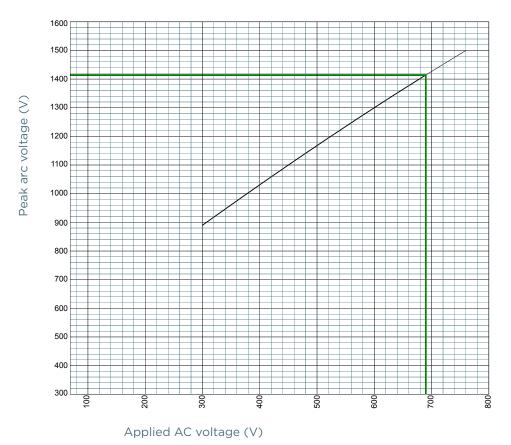
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PEAK ARC VOLTAGE

Size 00, 690VAC

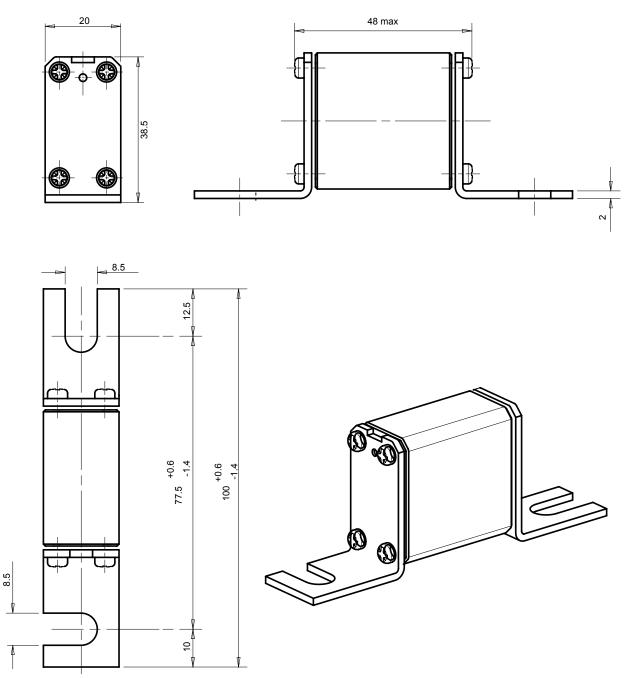


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Size 000 without indicator



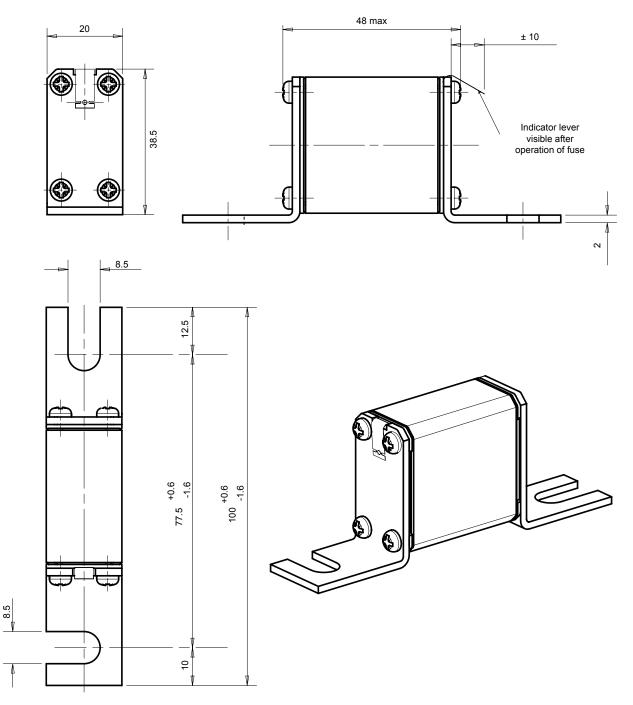
Dimensions in mm

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Size 000 with indicator



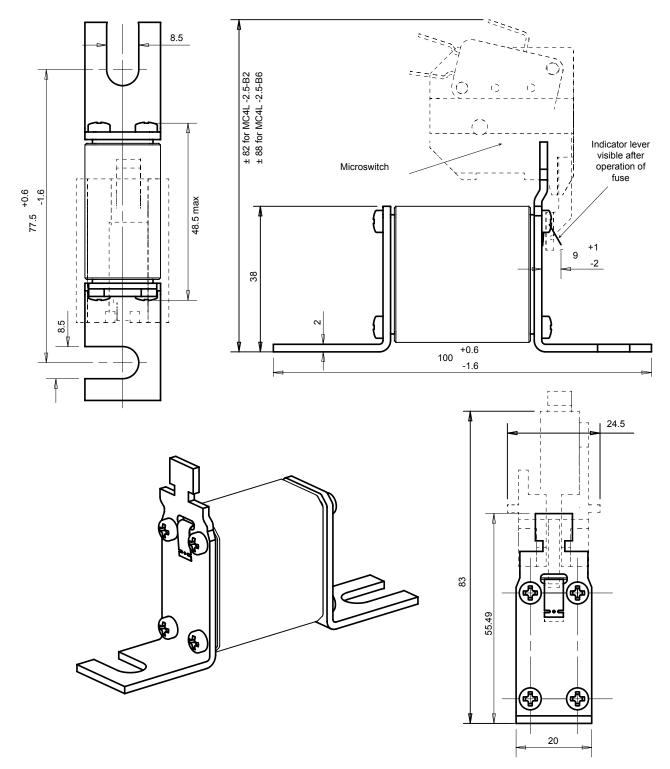
Dimensions in mm

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Size 000 for monitoring micro-contact



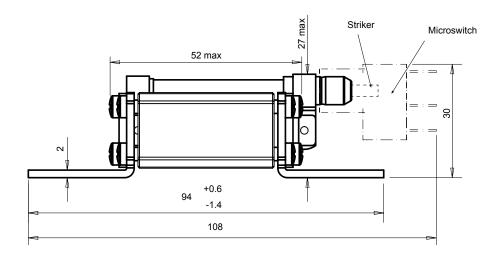
Dimensions in mm

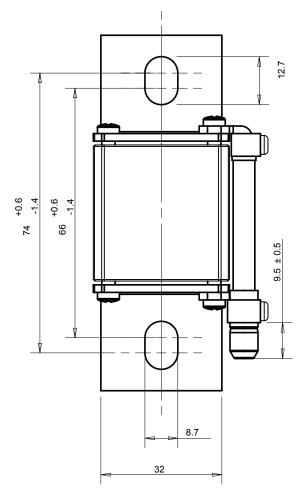
Semiconductor Protection Fuses / DS-PFC60AR-12-0923_EN

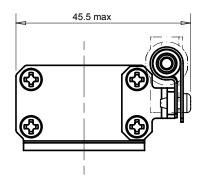




Size 000 BS88 with indicator







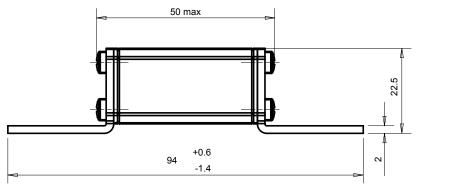
Dimensions in mm

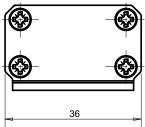
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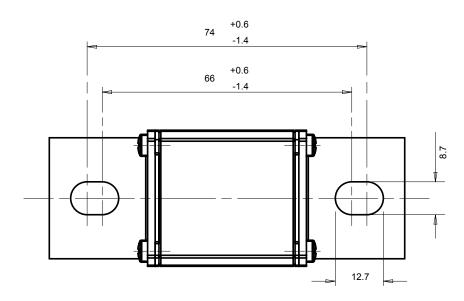


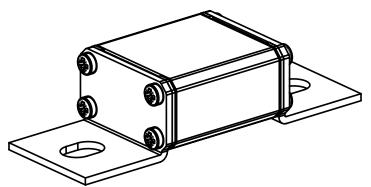


Size 000 BS88 without indicator









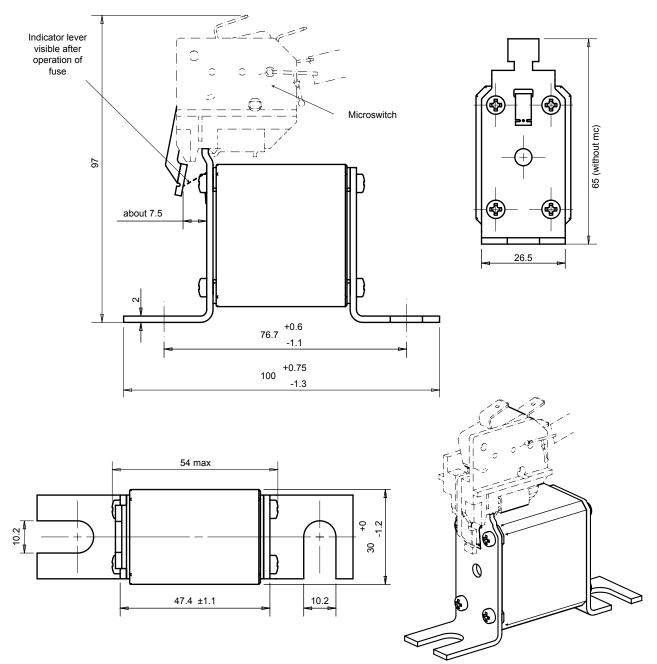
Dimensions in mm

Semiconductor Protection Fuses / DS-PFC60AR-12-0923_EN





Size 00 DIN80 for monitoring micro-contact



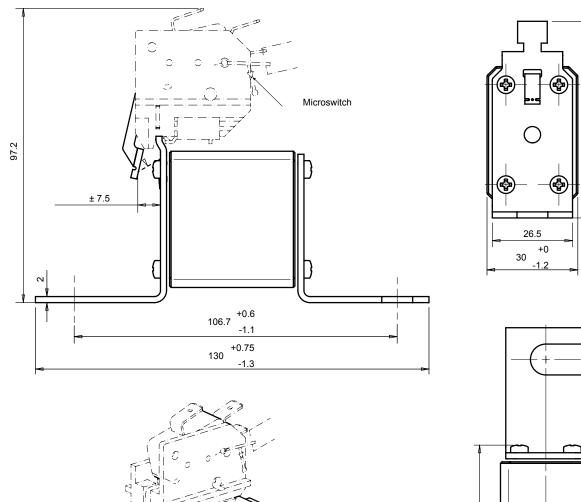
Dimensions in mm

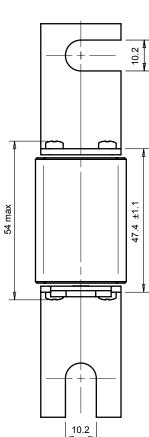






Size 00 DIN110 for monitoring micro-contact





65 without microswitch

Dimensions in mm

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