

Protistor® size 30 aR

600 - 690VAC (IEC) / 700VAC (UL)

SEMICONDUCTOR PROTECTION FUSES

SQUARE BODY HIGH-SPEED FUSE-LINKS AC PROTECTION



The 690/700V Protistor® fuse-links range provide maximum flexibility in equipment design and ultimate protection for today's power conversion equipment. These aR ultra-fast acting square body fuse-links are available in different body sizes, each size having multiple worldwide acceptable mounting styles.

They have been engineered to provide state-of-the-art protection for semiconductors: diodes, thyristors, IGBT and MOSFET 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

Voltage Range AC	600 ... 690 VAC
Ampere Range (A)	50 ... 630 A
Speed/Characteristic	aR
I.R. AC (IEC)	170 kA 200 kA
Product Size	30

FEATURES & BENEFITS

- Multiple body sizes and terminals or blades combination
- aR Class according to IEC 60269-4 and VDE 636-23
- Very low I^2t for improved semiconductor protection
- Ultra fast acting
- Current limiting
- 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 E76491
- CCC GB 13539.4



Protistor® size 30 aR

600 - 690VAC (IEC) / 700VAC (UL)

PRODUCT RANGE



PC30UD69V100TF

Size 30 type TTF M8 threaded terminals

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
PC30UD69V50TF	S300373	690 V	700 V	50 A	0.116 kA²s	0.68 kA²s	170 kA	9 W	0.2463 kg	3
PC30UD69V63TF	M300000	690 V	700 V	63 A	0.2 kA²s	1.2 kA²s	170 kA	14 W	0.2463 kg	3
PC30UD69V80TF	S300051	690 V	700 V	80 A	0.33 kA²s	1.9 kA²s	170 kA	19 W	0.2463 kg	3
PC30UD69V100TF	T300052	690 V	700 V	100 A	0.47 kA²s	2.7 kA²s	170 kA	26 W	0.2463 kg	3
PC30UD69V125TF	V300053	690 V	700 V	125 A	0.85 kA²s	4.9 kA²s	170 kA	30 W	0.2696 kg	3
PC30UD69V160TF	W300054	690 V	700 V	160 A	1.6 kA²s	9.2 kA²s	170 kA	37 W	0.2696 kg	3
PC30UD69V200TF	X300055	690 V	700 V	200 A	3 kA²s	16.7 kA²s	170 kA	42 W	0.2696 kg	3
PC30UD69V250TF	Y300056	690 V	700 V	250 A	5.8 kA²s	32.4 kA²s	170 kA	48 W	0.2696 kg	3
PC30UD69V315TF	Z300057	690 V	700 V	315 A	12 kA²s	67 kA²s	170 kA	53 W	0.2463 kg	3
PC30UD69V350TF	A300058	690 V	700 V	350 A	15.5 kA²s	86 kA²s	170 kA	57 W	0.2463 kg	3
PC30UD69V400TF	B300059	690 V	700 V	400 A	23 kA²s	130 kA²s	170 kA	60 W	0.2696 kg	3
PC30UD69V450TF	V300398	690 V	700 V	450 A	26 kA²s	165 kA²s	170 kA	80 W	0.2666 kg	3
PC30UD69V500TF	W300399	690 V	700 V	500 A	41 kA²s	264 kA²s	170 kA	80 W	0.2463 kg	3
PC30UD69V550TF	X300400	690 V	700 V	550 A	52 kA²s	330 kA²s	170 kA	80 W	0.2463 kg	3
PC30UD60V630TF	L301770	600 V	650 V	630 A	84 kA²s	450 kA²s	200 kA	85 W	0.2463 kg	3

Size 30 type TTI 5/16"-18 unified coarse threaded terminals

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
A070UD30TTI50	V302744	690 V	700 V	50 A	0.116 kA²s	0.68 kA²s	170 kA	9 W	0.255 kg	3
A070UD30TTI63	A301967	690 V	700 V	63 A	0.2 kA²s	1.2 kA²s	170 kA	14 W	0.255 kg	3
A070UD30TTI80	V301962	690 V	700 V	80 A	0.33 kA²s	1.9 kA²s	170 kA	19 W	0.255 kg	3
A070UD30TTI100	W300744	690 V	700 V	100 A	0.47 kA²s	2.7 kA²s	170 kA	26 W	0.255 kg	3
A070UD30TTI125	G300708	690 V	700 V	125 A	0.85 kA²s	4.9 kA²s	170 kA	30 W	0.255 kg	3
A070UD30TTI160	N300576	690 V	700 V	160 A	1.6 kA²s	9.2 kA²s	170 kA	37 W	0.255 kg	3
A070UD30TTI200	P300577	690 V	700 V	200 A	3 kA²s	16.7 kA²s	170 kA	42 W	0.255 kg	3
A070UD30TTI250	Q300578	690 V	700 V	250 A	5.8 kA²s	32.4 kA²s	170 kA	48 W	0.255 kg	3
A070UD30TTI315	R300579	690 V	700 V	315 A	12 kA²s	67 kA²s	170 kA	53 W	0.255 kg	3
A070UD30TTI350	S300580	690 V	700 V	350 A	15.5 kA²s	86 kA²s	170 kA	57 W	0.255 kg	3
A070UD30TTI400	T300581	690 V	700 V	400 A	23 kA²s	130 kA²s	170 kA	60 W	0.255 kg	3
A070UD30TTI450	V300582	690 V	700 V	450 A	26 kA²s	165 kA²s	170 kA	80 W	0.255 kg	3
A070UD30TTI500	W300583	690 V	700 V	500 A	41 kA²s	264 kA²s	170 kA	80 W	0.255 kg	3
A070UD30TTI550	X300584	690 V	700 V	550 A	52 kA²s	330 kA²s	170 kA	80 W	0.255 kg	3
A065UD30TTI630	A302703	600 V	650 V	630 A	84 kA²s	450 kA²s	200 kA	85 W	0.255 kg	3

Protistor® size 30 aR

600 - 690VAC (IEC) / 700VAC (UL)

PRODUCT RANGE



PC30UD69V160A

Size 30 type DIN80 blades

Catalog number	Item number	Rated voltage AC (IEC)	Rated voltage AC (UL)	Rated current I_n	Pre-arcing I^2t	Clearing I^2t at Rated Voltage	Rated breaking capacity AC	Power dissipation at I_n	Weight	Package
PC30UD69V50A	F301926	690 V	700 V	50 A	0.116 kA²s	0.68 kA²s	170 kA	9 W	275 g	3
PC30UD69V63A	E300108	690 V	700 V	63 A	0.2 kA²s	1.2 kA²s	170 kA	14 W	0.2733 kg	3
PC30UD69V80A	F300109	690 V	700 V	80 A	0.33 kA²s	1.9 kA²s	170 kA	19 W	0.2733 kg	3
PC30UD69V100A	G300110	690 V	700 V	100 A	0.47 kA²s	2.7 kA²s	170 kA	26 W	0.2733 kg	3
PC30UD69V125A	H300111	690 V	700 V	125 A	0.85 kA²s	4.9 kA²s	170 kA	30 W	0.2733 kg	3
PC30UD69V160A	J300112	690 V	700 V	160 A	1.6 kA²s	9.2 kA²s	170 kA	37 W	0.2733 kg	3
PC30UD69V200A	K300113	690 V	700 V	200 A	3 kA²s	16.7 kA²s	170 kA	43 W	0.2733 kg	3
PC30UD69V250A	L300114	690 V	700 V	250 A	5.8 kA²s	32.4 kA²s	170 kA	50 W	0.2733 kg	3
PC30UD69V315A	M300115	690 V	700 V	315 A	12 kA²s	67 kA²s	170 kA	55 W	0.2733 kg	3
PC30UD69V350A	N300116	690 V	700 V	350 A	15.5 kA²s	86 kA²s	170 kA	60 W	0.2733 kg	3
PC30UD69V400A	P300117	690 V	700 V	400 A	23 kA²s	130 kA²s	170 kA	65 W	0.2733 kg	3
PC30UD69V450A	A300403	690 V	700 V	450 A	26 kA²s	165 kA²s	170 kA	88 W	0.2733 kg	3
PC30UD69V500A	B300404	690 V	700 V	500 A	41 kA²s	264 kA²s	170 kA	88 W	0.2733 kg	3
PC30UD69V550A	C300405	690 V	700 V	550 A	52 kA²s	330 kA²s	170 kA	90 W	0.2733 kg	3



PC30UD69V450D1A

Size 30 type DIN110 blades

Catalog number	Item number	Rated voltage AC (IEC)	Rated voltage AC (UL)	Rated current I_n	Pre-arcing I^2t	Clearing I^2t at Rated Voltage	Rated breaking capacity AC	Power dissipation at I_n	Weight	Package
PC30UD69V50D1A	G301191	690 V	700 V	50 A	0.116 kA²s	0.68 kA²s	170 kA	9 W	0.2983 kg	3
PC30UD69V63D1A	Q300118	690 V	700 V	63 A	0.2 kA²s	1.2 kA²s	170 kA	14 W	0.2983 kg	3
PC30UD69V80D1A	R300119	690 V	700 V	80 A	0.33 kA²s	1.9 kA²s	170 kA	19 W	0.2983 kg	3
PC30UD69V100D1A	S300120	690 V	700 V	100 A	0.47 kA²s	2.7 kA²s	170 kA	26 W	0.2983 kg	3
PC30UD69V125D1A	T300121	690 V	700 V	125 A	0.85 kA²s	4.9 kA²s	170 kA	30 W	0.2983 kg	3
PC30UD69V160D1A	V300122	690 V	700 V	160 A	1.6 kA²s	9.2 kA²s	170 kA	37 W	0.2983 kg	3
PC30UD69V200D1A	W300123	690 V	700 V	200 A	3 kA²s	16.7 kA²s	170 kA	43 W	0.2983 kg	3
PC30UD69V250D1A	X300124	690 V	700 V	250 A	5.8 kA²s	32.4 kA²s	170 kA	50 W	0.2983 kg	3
PC30UD69V315D1A	Y300125	690 V	700 V	315 A	12 kA²s	67 kA²s	170 kA	55 W	0.2983 kg	3
PC30UD69V350D1A	Z300126	690 V	700 V	350 A	15.5 kA²s	86 kA²s	170 kA	60 W	0.2983 kg	3
PC30UD69V400D1A	A300127	690 V	700 V	400 A	23 kA²s	130 kA²s	170 kA	65 W	0.2983 kg	3
PC30UD69V450D1A	S300695	690 V	700 V	450 A	26 kA²s	165 kA²s	170 kA	88 W	0.2983 kg	3
PC30UD69V500D1A	Y301091	690 V	700 V	500 A	41 kA²s	264 kA²s	170 kA	88 W	0.2983 kg	3
PC30UD69V550D1A	Z301092	690 V	700 V	550 A	52 kA²s	330 kA²s	170 kA	90 W	0.2983 kg	3

Protistor® size 30 aR

600 - 690VAC (IEC) / 700VAC (UL)

PRODUCT RANGE

Size 30 type KI short slotted blades

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
A070UD30KI50	E301925	690 V	700 V	50 A	0.116 kA²s	0.68 kA²s	170 kA	9 W	0.291 kg	3
A070UD30KI630	B300128	690 V	700 V	63 A	0.2 kA²s	1.2 kA²s	170 kA	14 W	0.291 kg	3
A070UD30KI80	C300129	690 V	700 V	80 A	0.33 kA²s	1.9 kA²s	170 kA	19 W	0.291 kg	3
A070UD30KI100	D300130	690 V	700 V	100 A	0.47 kA²s	2.7 kA²s	170 kA	26 W	0.291 kg	3
A070UD30KI125	E300131	690 V	700 V	125 A	0.85 kA²s	4.9 kA²s	170 kA	30 W	0.291 kg	3
A070UD30KI160	F300132	690 V	700 V	160 A	1.6 kA²s	9.2 kA²s	170 kA	37 W	0.291 kg	3
A070UD30KI200	G300133	690 V	700 V	200 A	3 kA²s	16.7 kA²s	170 kA	43 W	0.291 kg	3
A070UD30KI250	H300134	690 V	700 V	250 A	5.8 kA²s	32.4 kA²s	170 kA	50 W	0.291 kg	3
A070UD30KI315	J300135	690 V	700 V	315 A	12 kA²s	67 kA²s	170 kA	55 W	0.291 kg	3
A070UD30KI350	K300136	690 V	700 V	350 A	15.5 kA²s	86 kA²s	170 kA	60 W	0.291 kg	3
A070UD30KI400	L300137	690 V	700 V	400 A	23 kA²s	130 kA²s	170 kA	65 W	0.291 kg	3
A070UD30KI450	T301064	690 V	700 V	450 A	26 kA²s	165 kA²s	170 kA	88 W	0.291 kg	3
A070UD30KI500	V301065	690 V	700 V	500 A	41 kA²s	264 kA²s	170 kA	88 W	0.291 kg	3
A070UD30KI550	W301066	690 V	700 V	550 A	52 kA²s	330 kA²s	170 kA	90 W	0.291 kg	3

Size 30 type LI long slotted blades

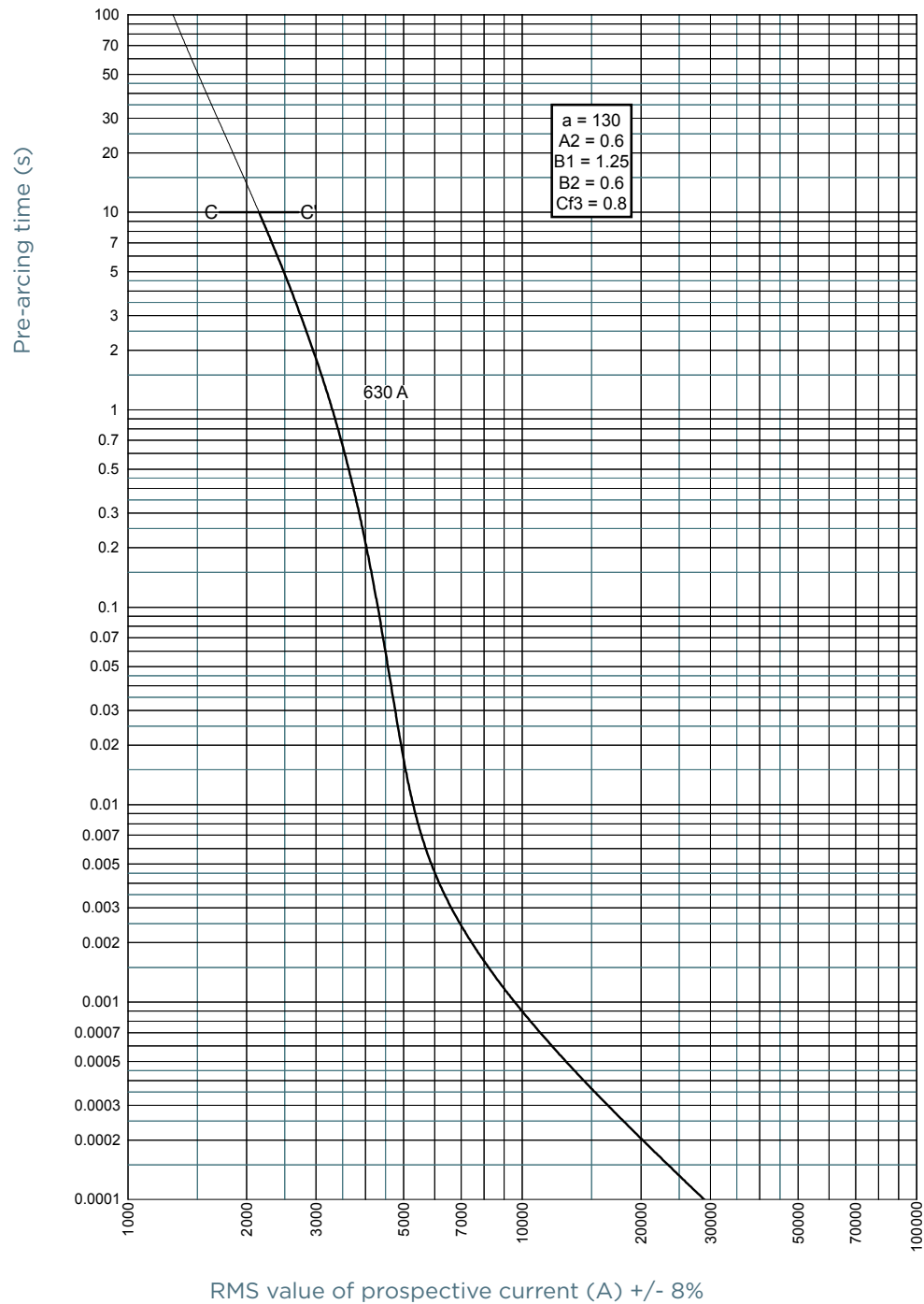
Catalog number	Item number	Rated voltage AC (IEC)	Rated voltage AC (UL)	Rated current I _n	Pre-arcing I ² t	Clearing I ² t at Rated Voltage	Rated breaking capacity AC	Power dissipation at I _n	Weight	Package
A070UD30LI50	A301921	690 V	700 V	50 A	0.116 kA²s	0.68 kA²s	170 kA	9 W	0.3213 kg	3
A070UD30LI63	M300138	690 V	700 V	63 A	0.2 kA²s	1.2 kA²s	170 kA	14 W	0.3213 kg	3
A070UD30LI80	N300139	690 V	700 V	80 A	0.33 kA²s	1.9 kA²s	170 kA	19 W	0.3213 kg	3
A070UD30LI100	P300140	690 V	700 V	100 A	0.47 kA²s	2.7 kA²s	170 kA	26 W	0.3213 kg	3
A070UD30LI125	Q300141	690 V	700 V	125 A	0.85 kA²s	4.9 kA²s	170 kA	30 W	0.3213 kg	3
A070UD30LI160	R300142	690 V	700 V	160 A	1.6 kA²s	9.2 kA²s	170 kA	37 W	0.3213 kg	3
A070UD30LI200	S300143	690 V	700 V	200 A	3 kA²s	16.7 kA²s	170 kA	43 W	0.3213 kg	3
A070UD30LI250	T300144	690 V	700 V	250 A	5.8 kA²s	32.4 kA²s	170 kA	50 W	0.3213 kg	3
A070UD30LI315	V300145	690 V	700 V	315 A	12 kA²s	67 kA²s	170 kA	55 W	0.3213 kg	3
A070UD30LI350	W300146	690 V	700 V	350 A	15.5 kA²s	86 kA²s	170 kA	60 W	0.3213 kg	3
A070UD30LI400	X300147	690 V	700 V	400 A	23 kA²s	130 kA²s	170 kA	65 W	0.3213 kg	3
A070UD30LI450	K300527	690 V	700 V	450 A	26 kA²s	165 kA²s	170 kA	88 W	0.3213 kg	3
A070UD30LI500	L300528	690 V	700 V	500 A	41 kA²s	264 kA²s	170 kA	88 W	0.3213 kg	3
A070UD30LI550	M300529	690 V	700 V	550 A	52 kA²s	330 kA²s	170 kA	90 W	0.3213 kg	3

Size 30 type EF blades for bolted connections

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
PC30UD69V50EF	R300372	690 V	700 V	50 A	0.116 kA²s	0.68 kA²s	170 kA	9 W	0.2653 kg	3
PC30UD69V63EF	H300088	690 V	700 V	63 A	0.2 kA²s	1.2 kA²s	170 kA	14 W	0.2653 kg	3
PC30UD69V80EF	J300089	690 V	700 V	80 A	0.33 kA²s	1.9 kA²s	170 kA	19 W	0.2653 kg	3
PC30UD69V100EF	K300090	690 V	700 V	100 A	0.47 kA²s	2.7 kA²s	170 kA	26 W	0.2653 kg	3
PC30UD69V125EF	L300091	690 V	700 V	125 A	0.85 kA²s	4.9 kA²s	170 kA	30 W	0.2653 kg	3
PC30UD69V160EF	M300092	690 V	700 V	160 A	1.6 kA²s	9.2 kA²s	170 kA	37 W	0.2653 kg	3
PC30UD69V200EF	N300093	690 V	700 V	200 A	3 kA²s	16.7 kA²s	170 kA	43 W	0.2653 kg	3
PC30UD69V250EF	P300094	690 V	700 V	250 A	5.8 kA²s	32.4 kA²s	170 kA	50 W	0.2653 kg	3
PC30UD69V315EF	Q300095	690 V	700 V	315 A	12 kA²s	67 kA²s	170 kA	55 W	0.2653 kg	3
PC30UD69V350EF	R300096	690 V	700 V	350 A	15.5 kA²s	86 kA²s	170 kA	60 W	0.2653 kg	3
PC30UD69V400EF	S300097	690 V	700 V	400 A	23 kA²s	130 kA²s	170 kA	65 W	0.2653 kg	3

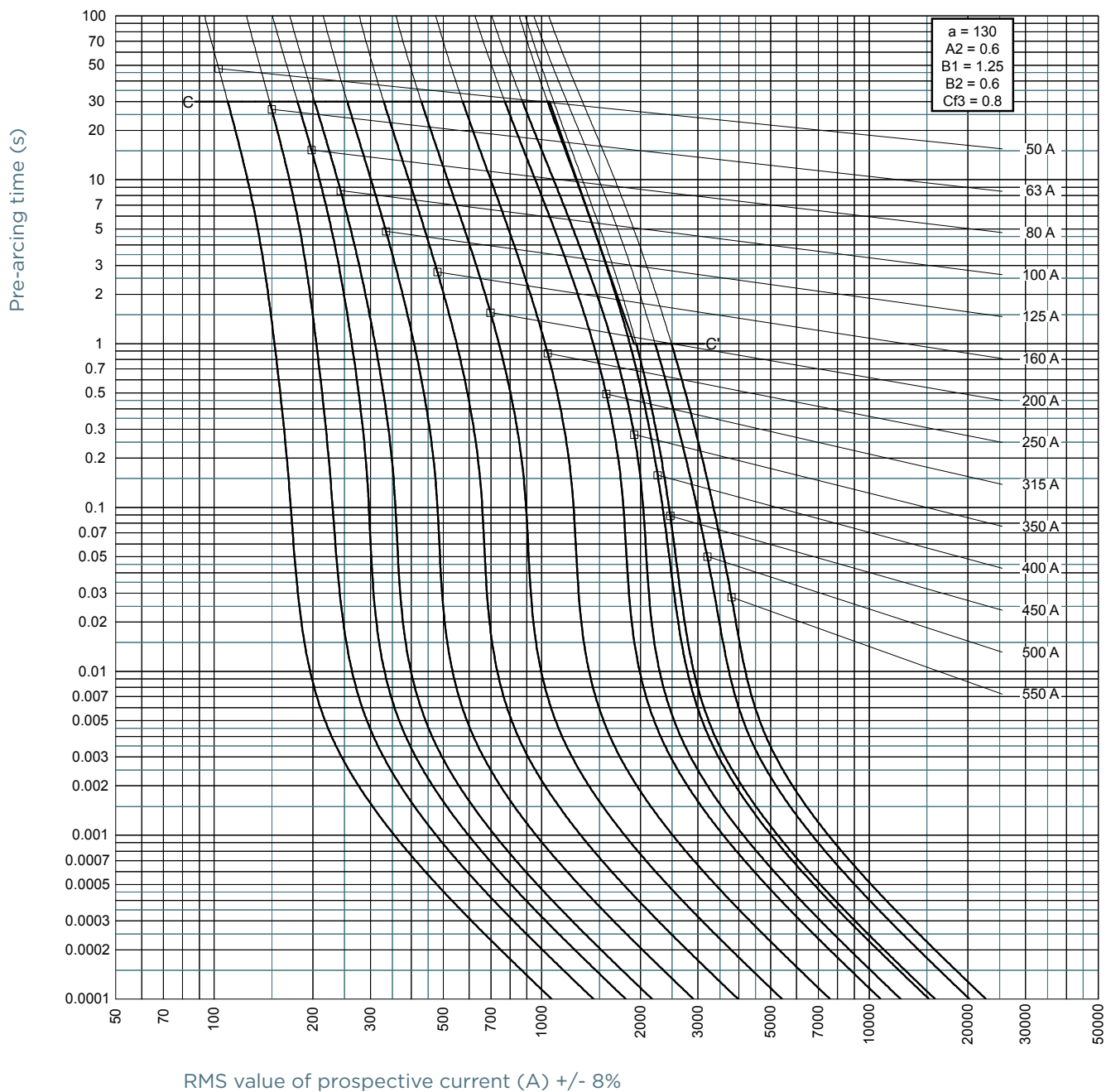
TIME CURRENT CHARACTERISTIC CURVES

Size 30 600V



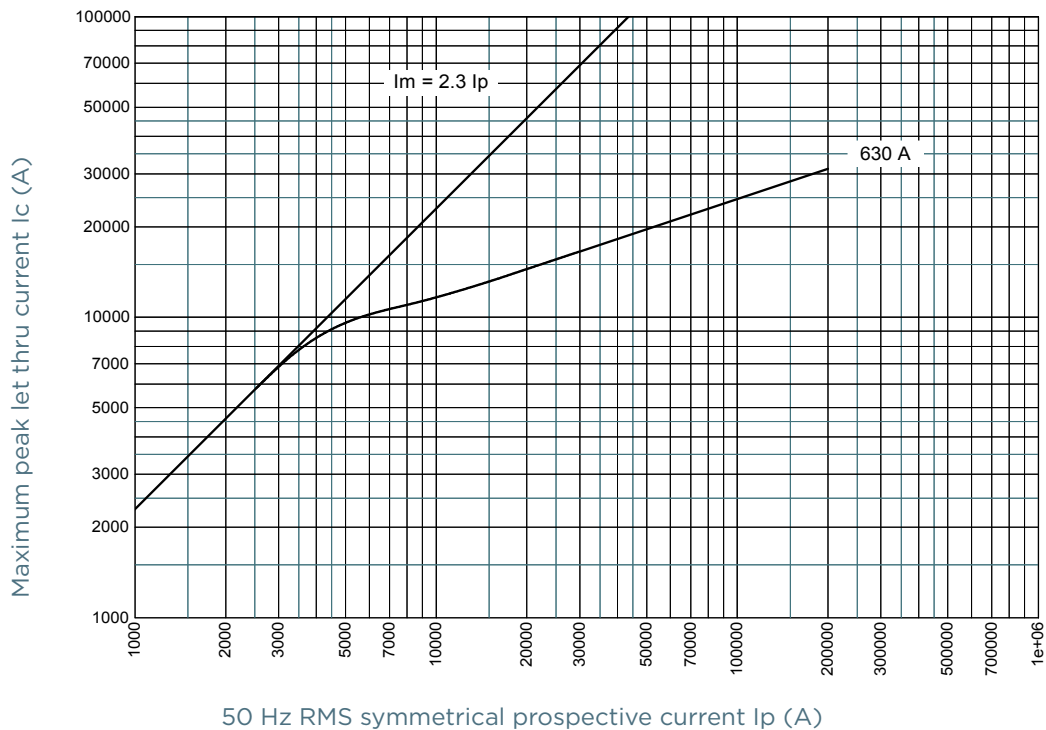
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Size 30 690V

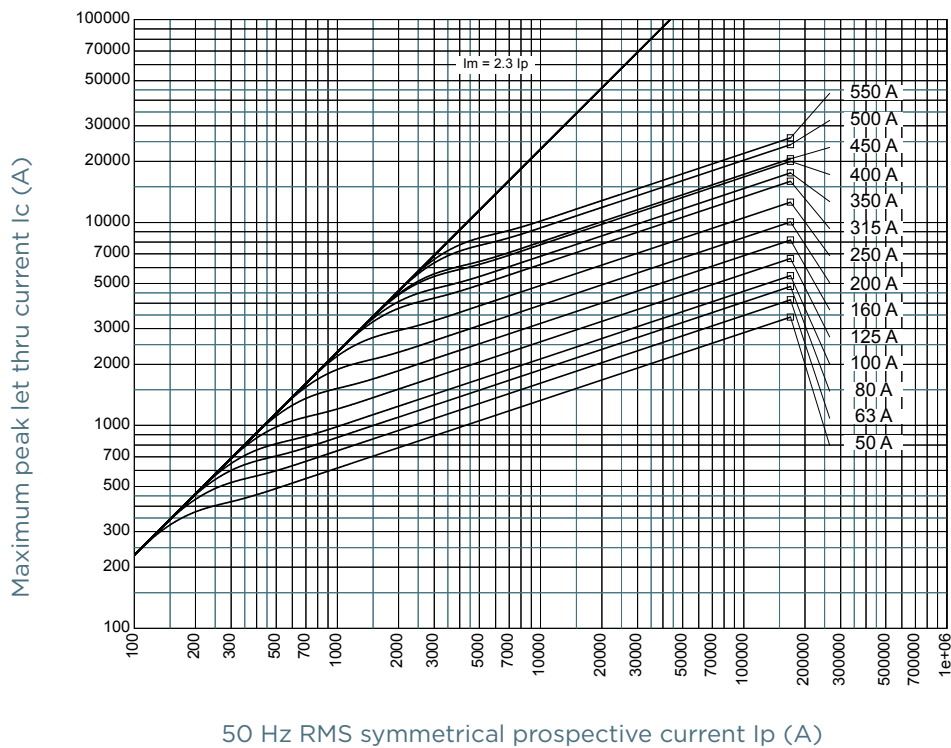


CUT-OFF CURRENT CHARACTERISTIC

Size 30 600V

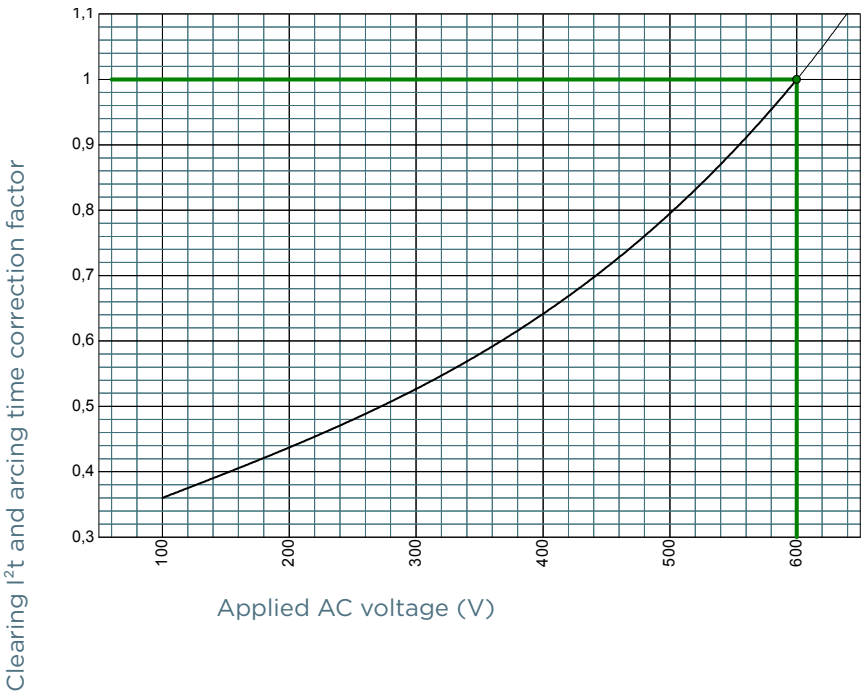


Size 30 690V

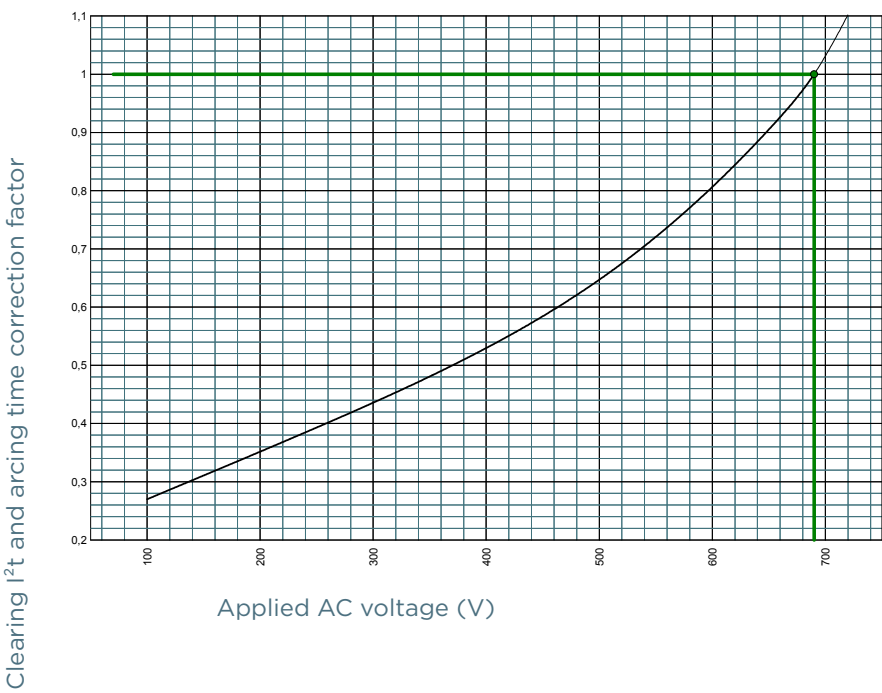


I²T MULTIPLIER COEFFICIENT

Size 30 600V

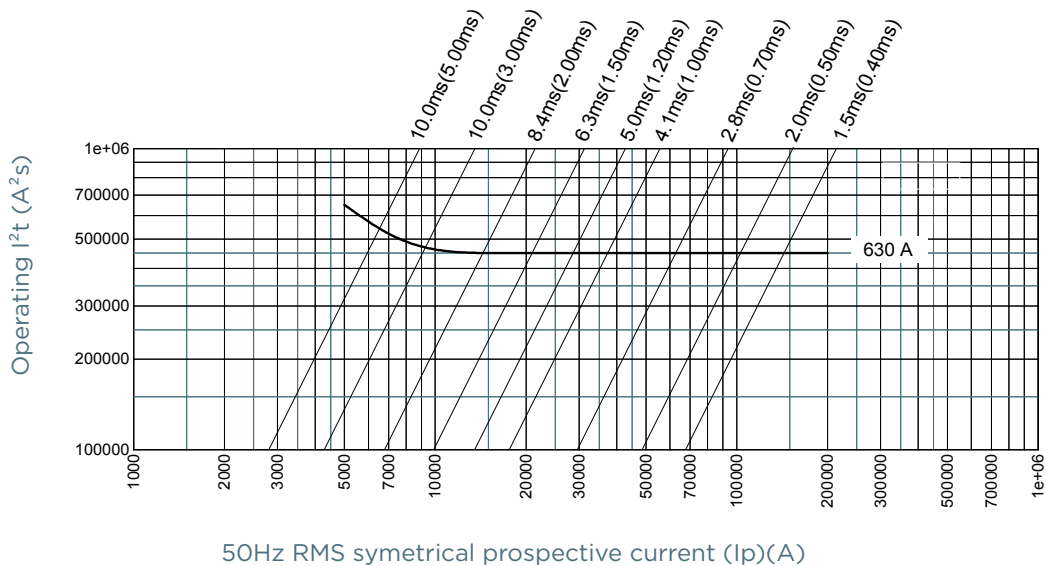


Size 30 690V

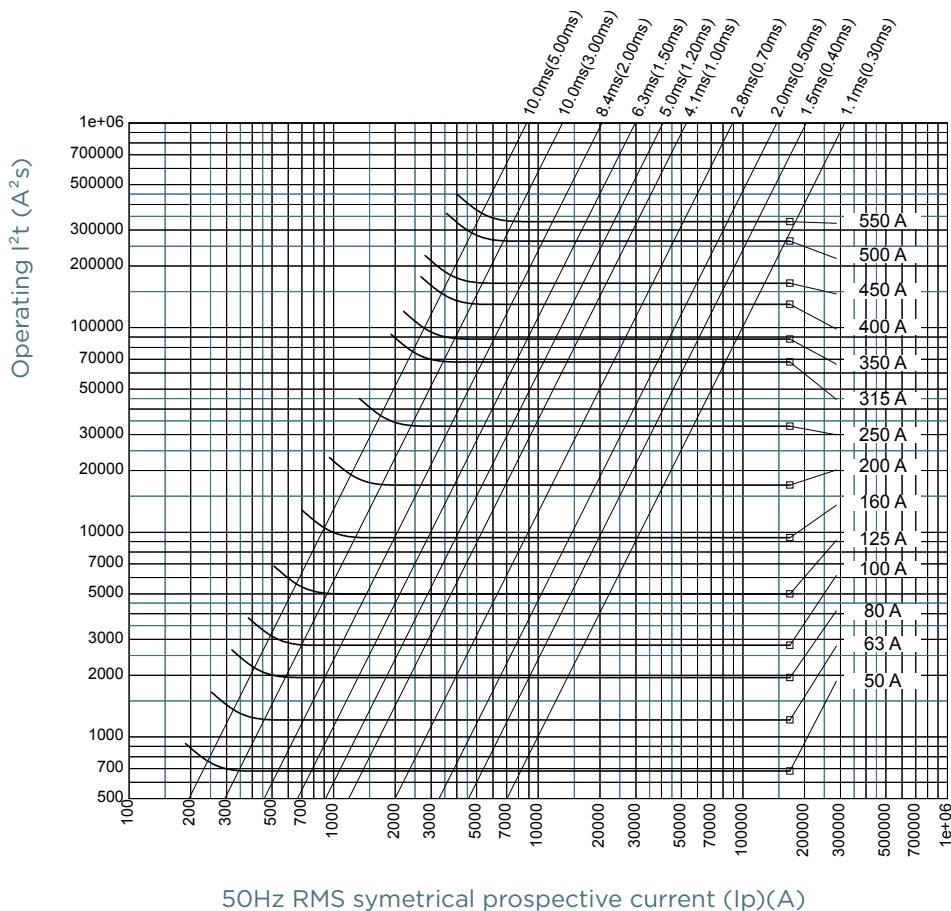


CHARACTERISTICS TOTAL I²T CURVE

Size 30 600V

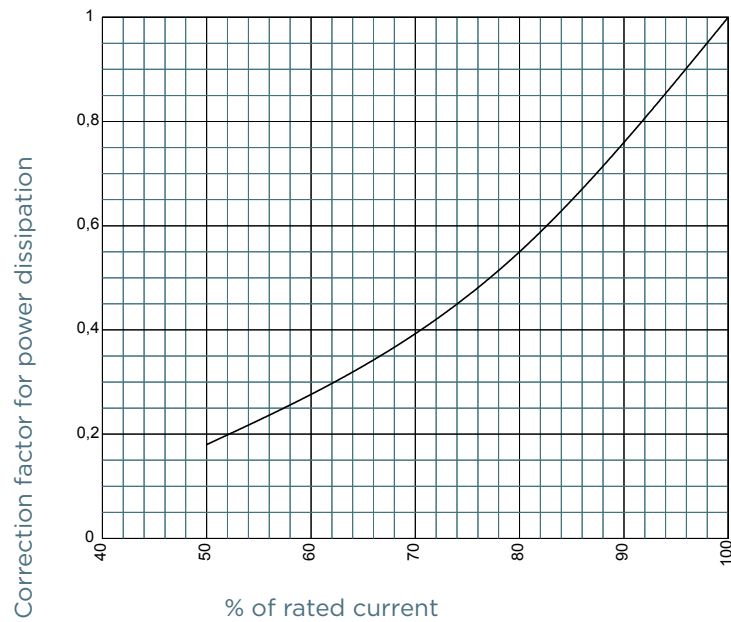


Size 30 690V

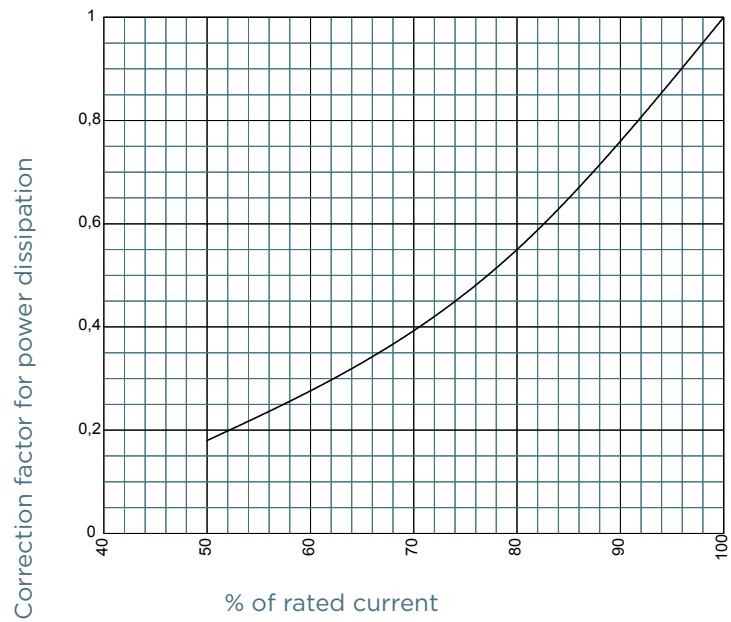


POWER DISSIPATION

Size 30 600V

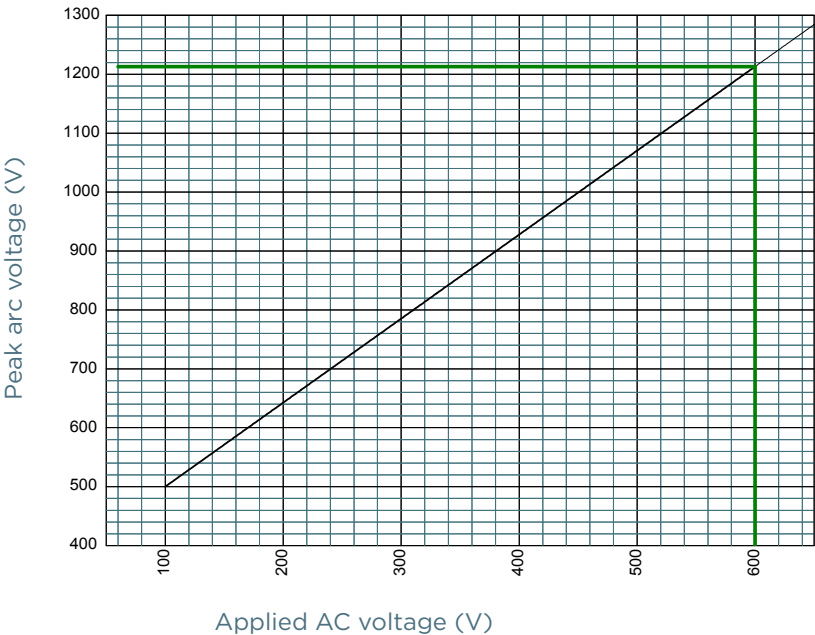


Size 30 690V

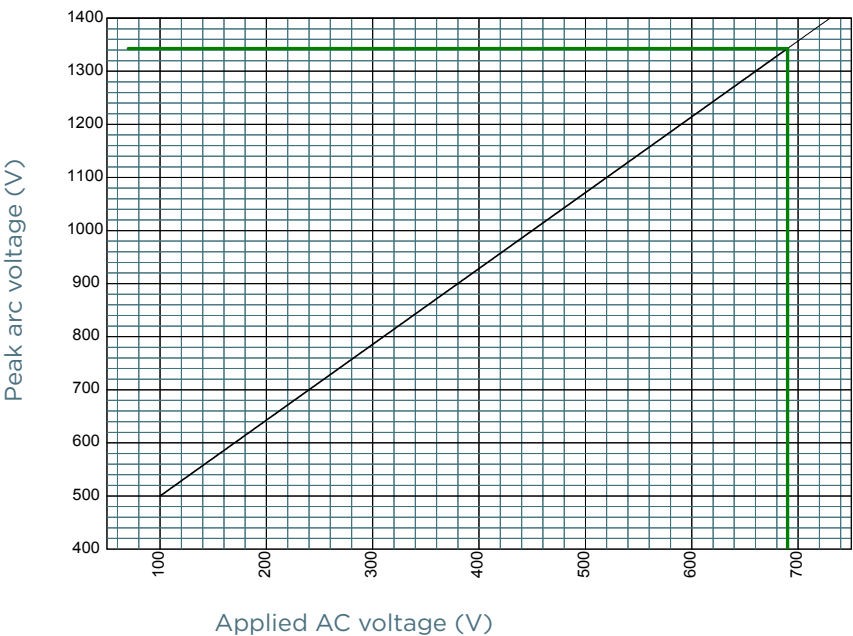


PEAK ARC VOLTAGE

Size 30 600V



Size 30 690V

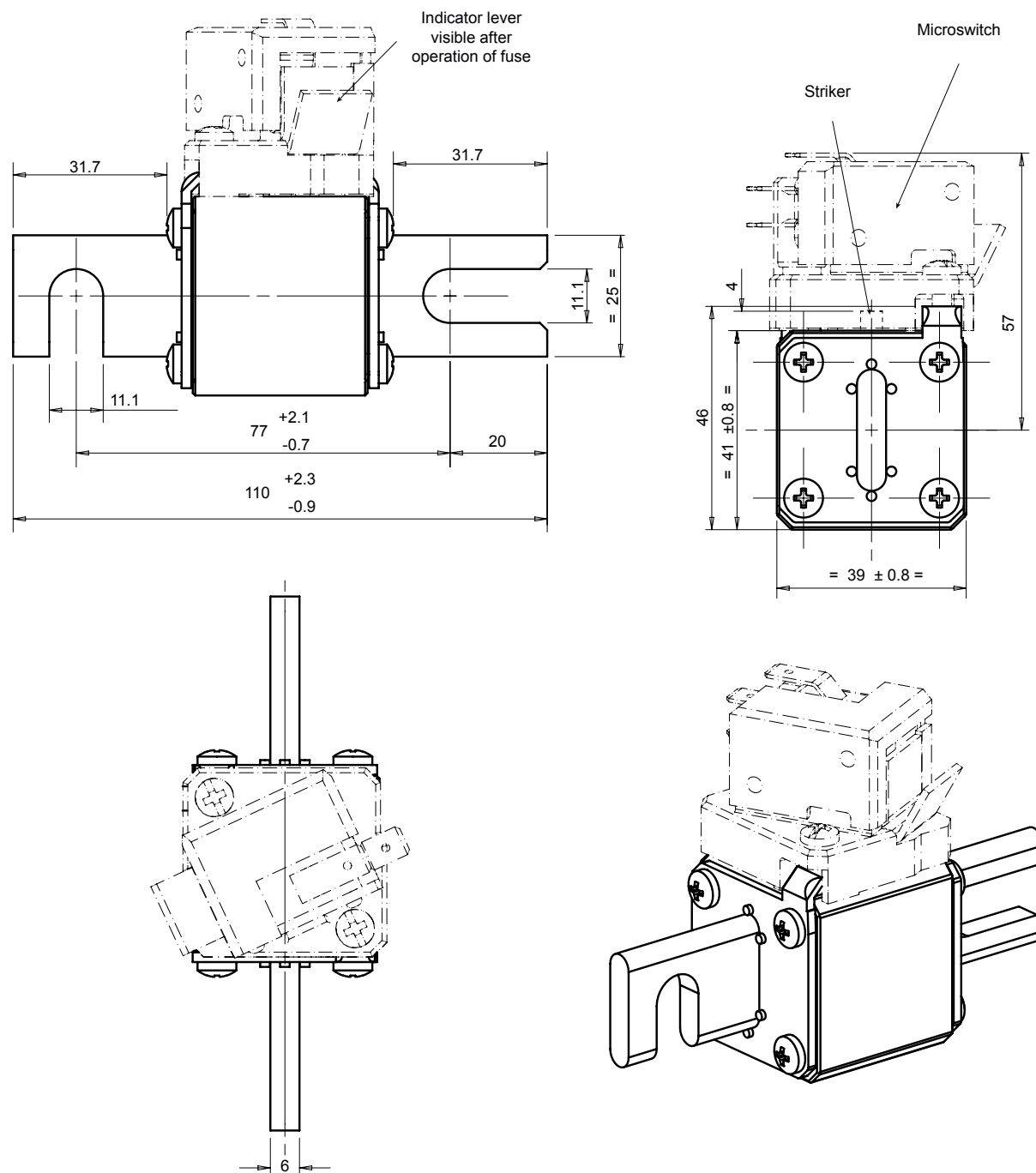


Protistor® size 30 aR

600 - 690VAC (IEC) / 700VAC (UL)

DIMENSIONS

Size 30 type DIN 80 (102936)



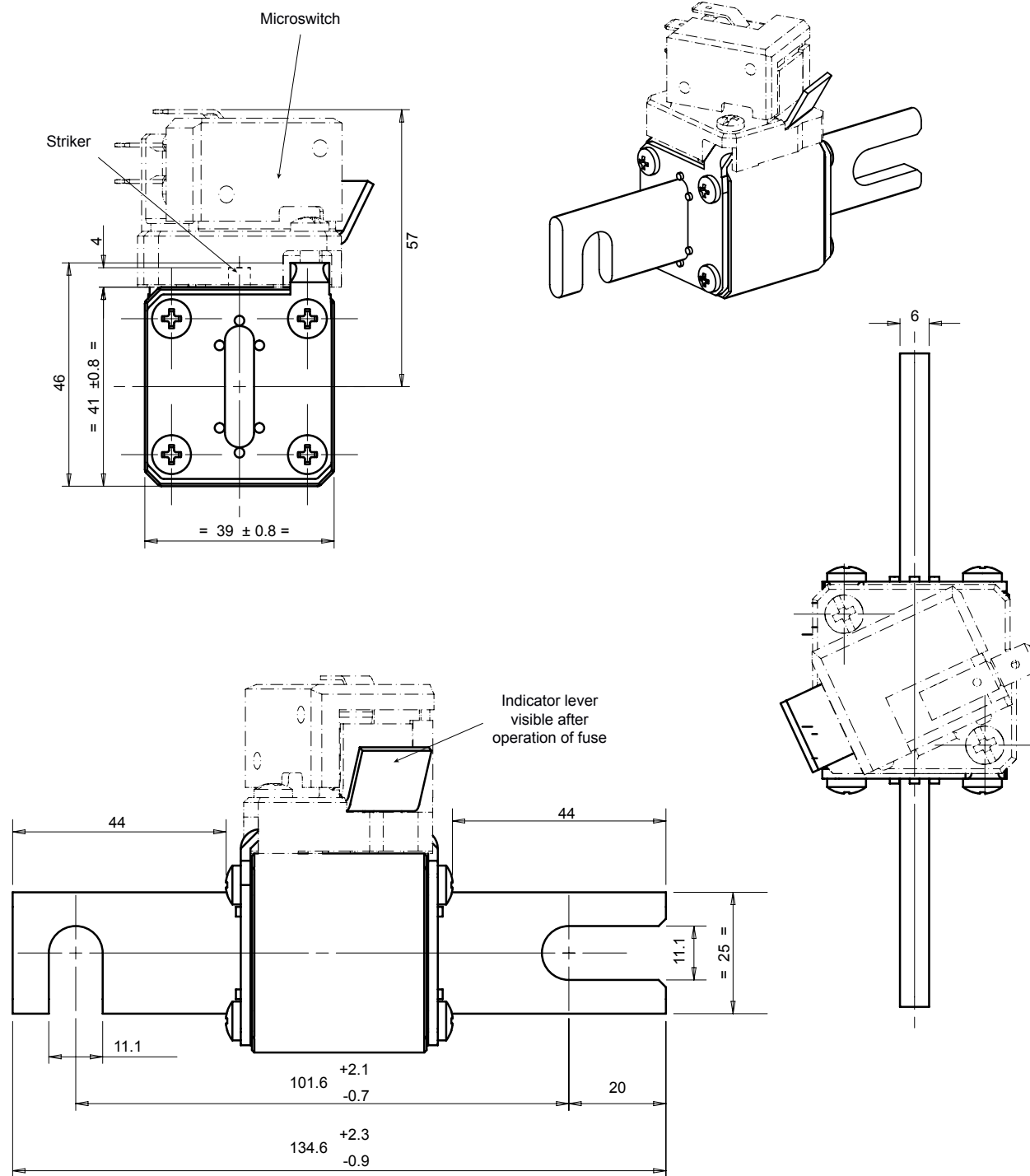
Dimensions in mm

Protistor® size 30 aR

600 - 690VAC (IEC) / 700VAC (UL)

DIMENSIONS

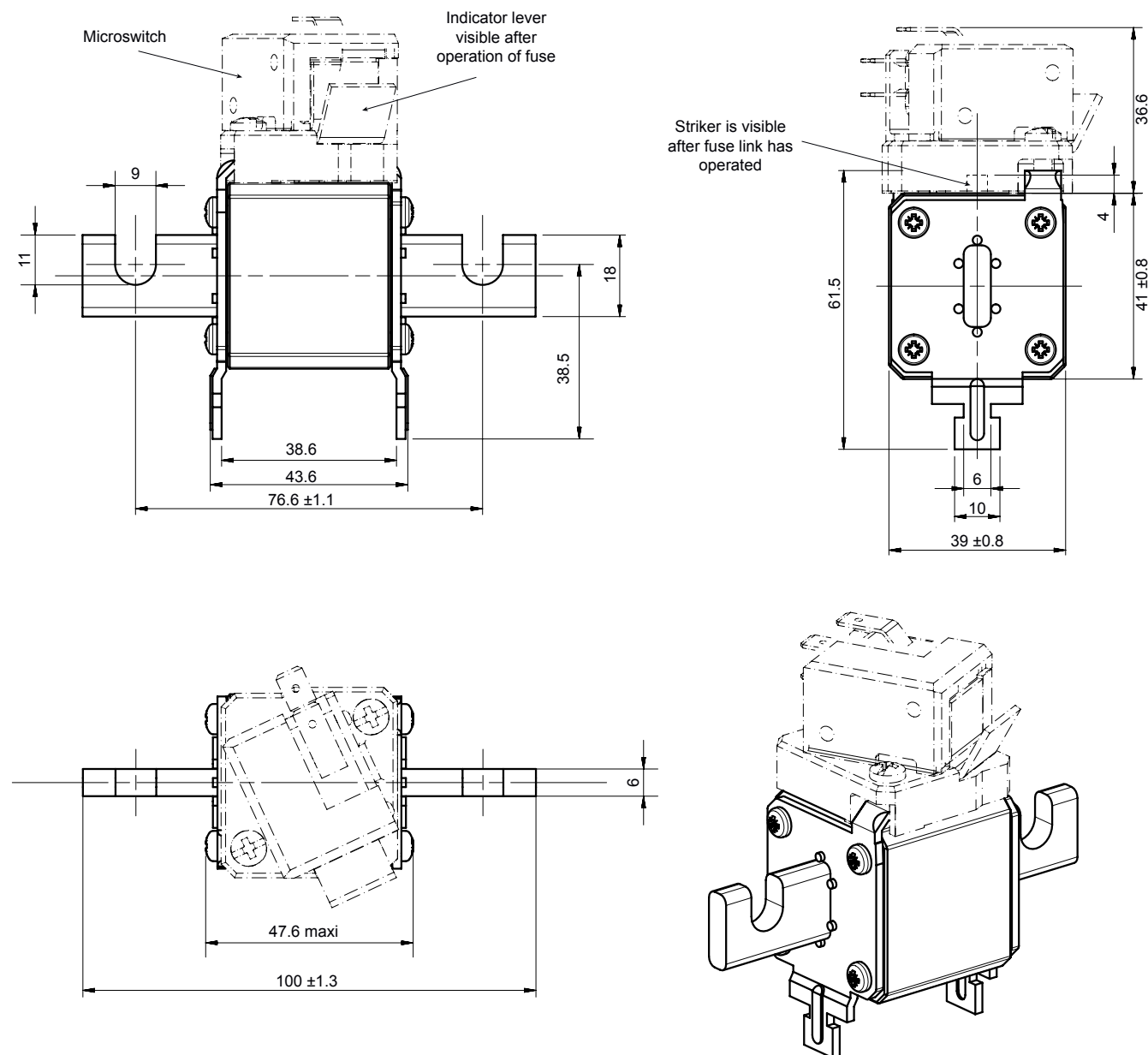
Size 30 type DIN 110 (102937)



Dimensions in mm

DIMENSIONS

Size 30 type EF (102935)



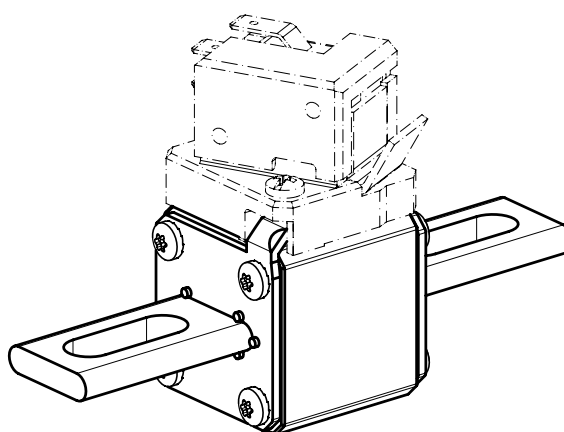
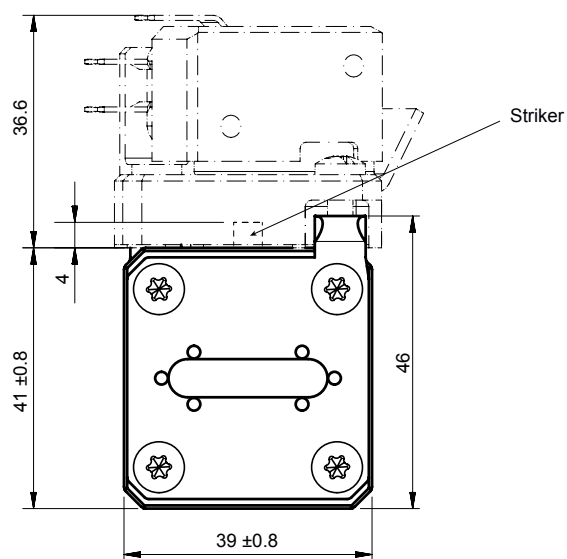
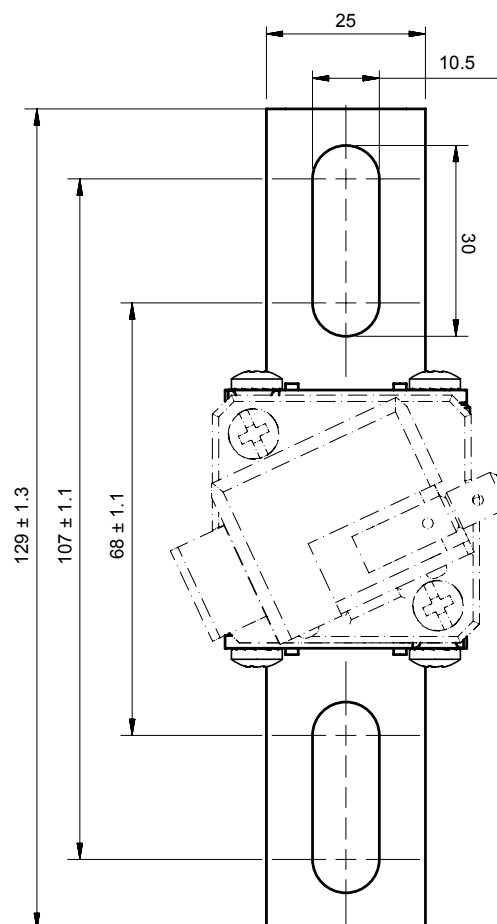
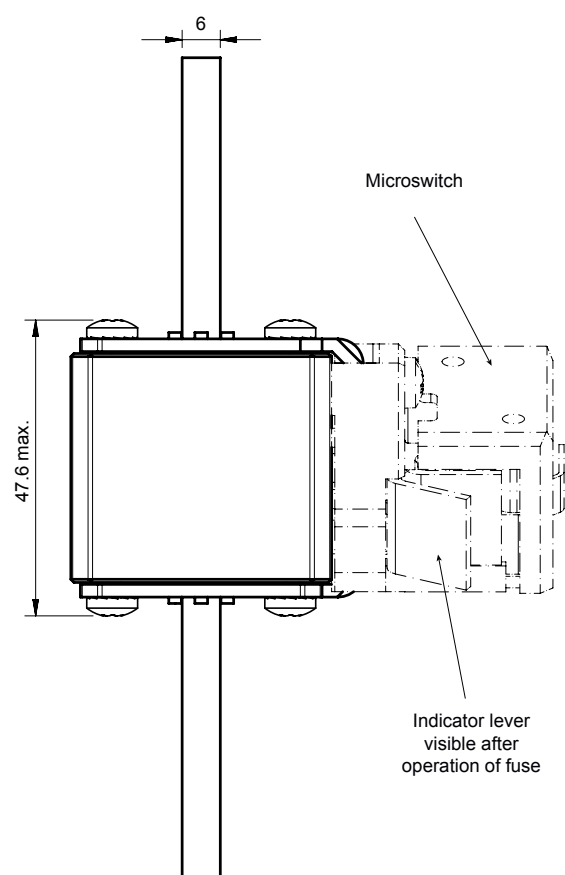
Dimensions in mm

Protistor® size 30 aR

600 - 690VAC (IEC) / 700VAC (UL)

DIMENSIONS

Size 30 type KI (102934)



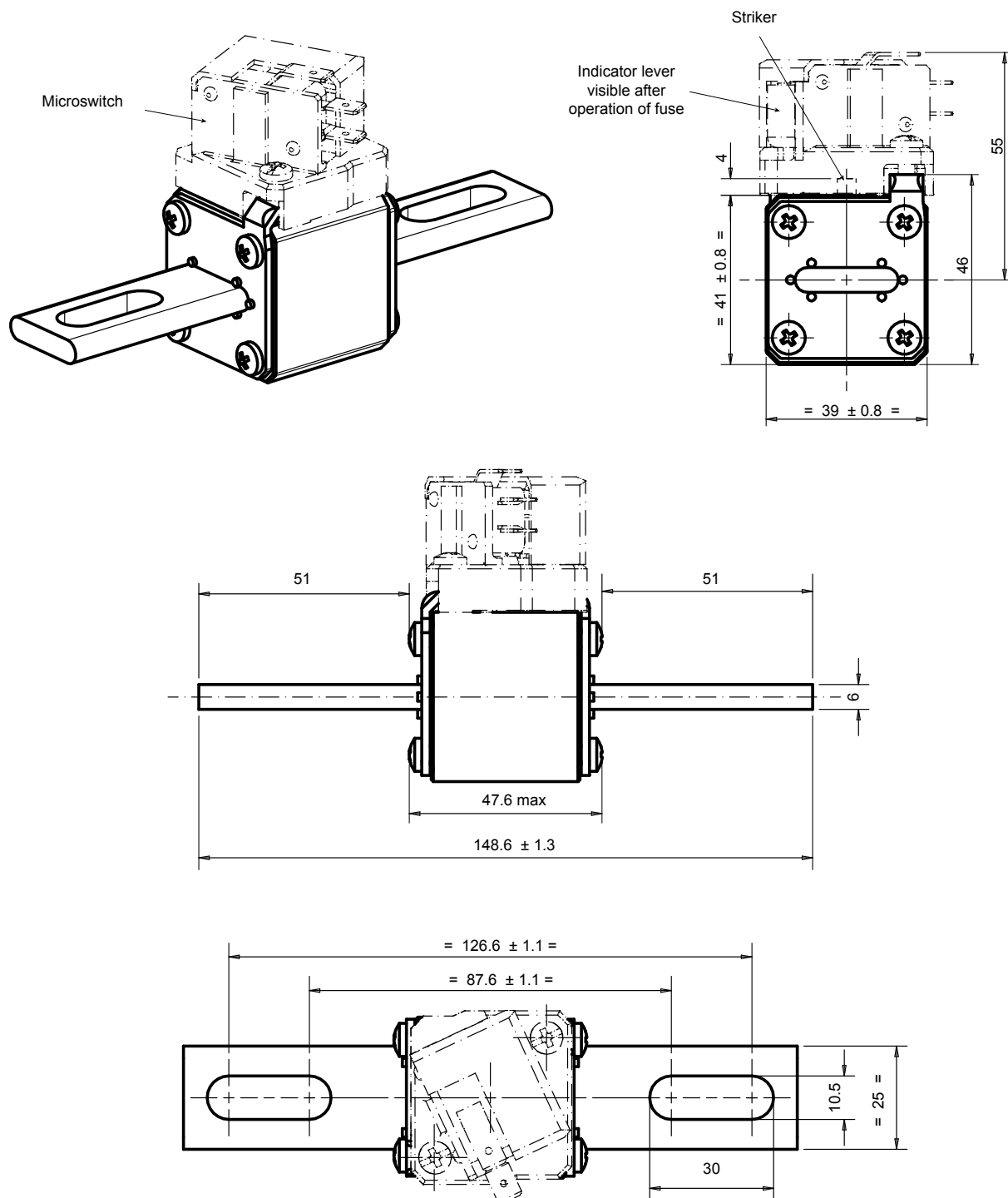
Dimensions in mm

Protistor® size 30 aR

600 - 690VAC (IEC) / 700VAC (UL)

DIMENSIONS

Size 30 type LI (102933)



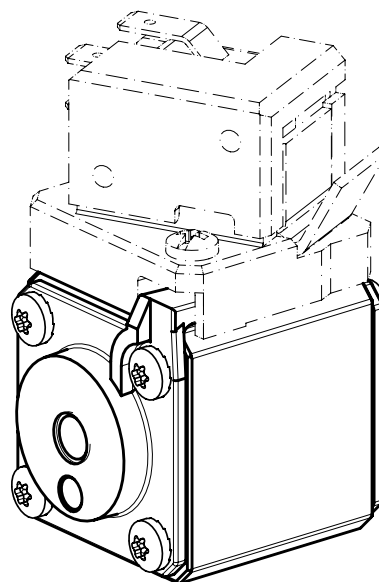
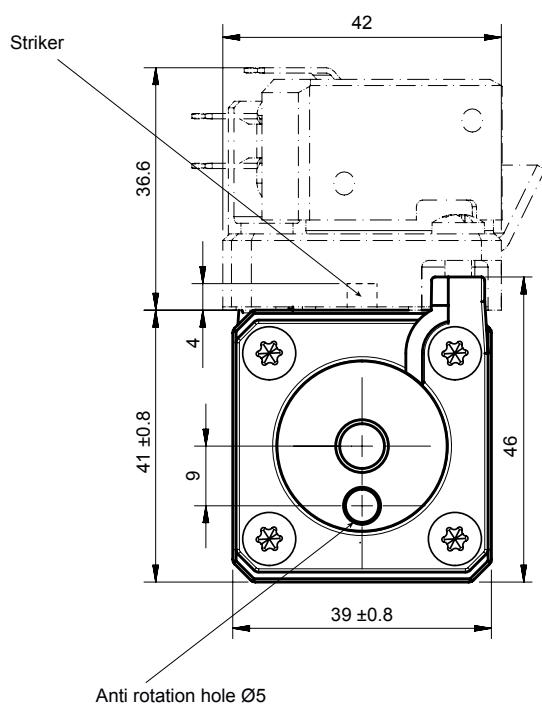
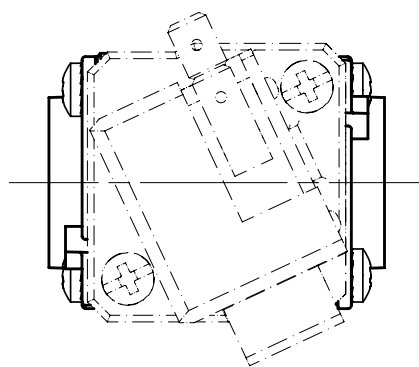
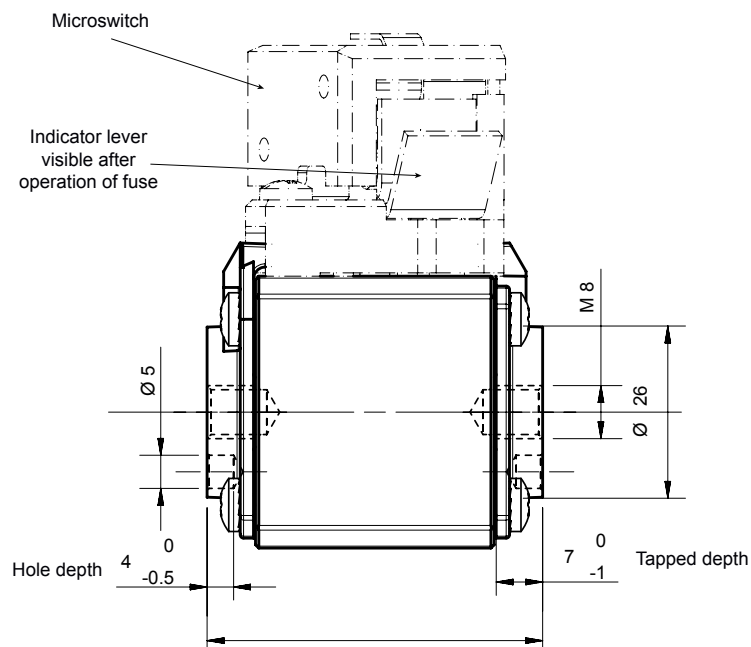
Dimensions in mm

Protistor® size 30 aR

600 - 690VAC (IEC) / 700VAC (UL)

DIMENSIONS

Size 30 type TTF (102920)



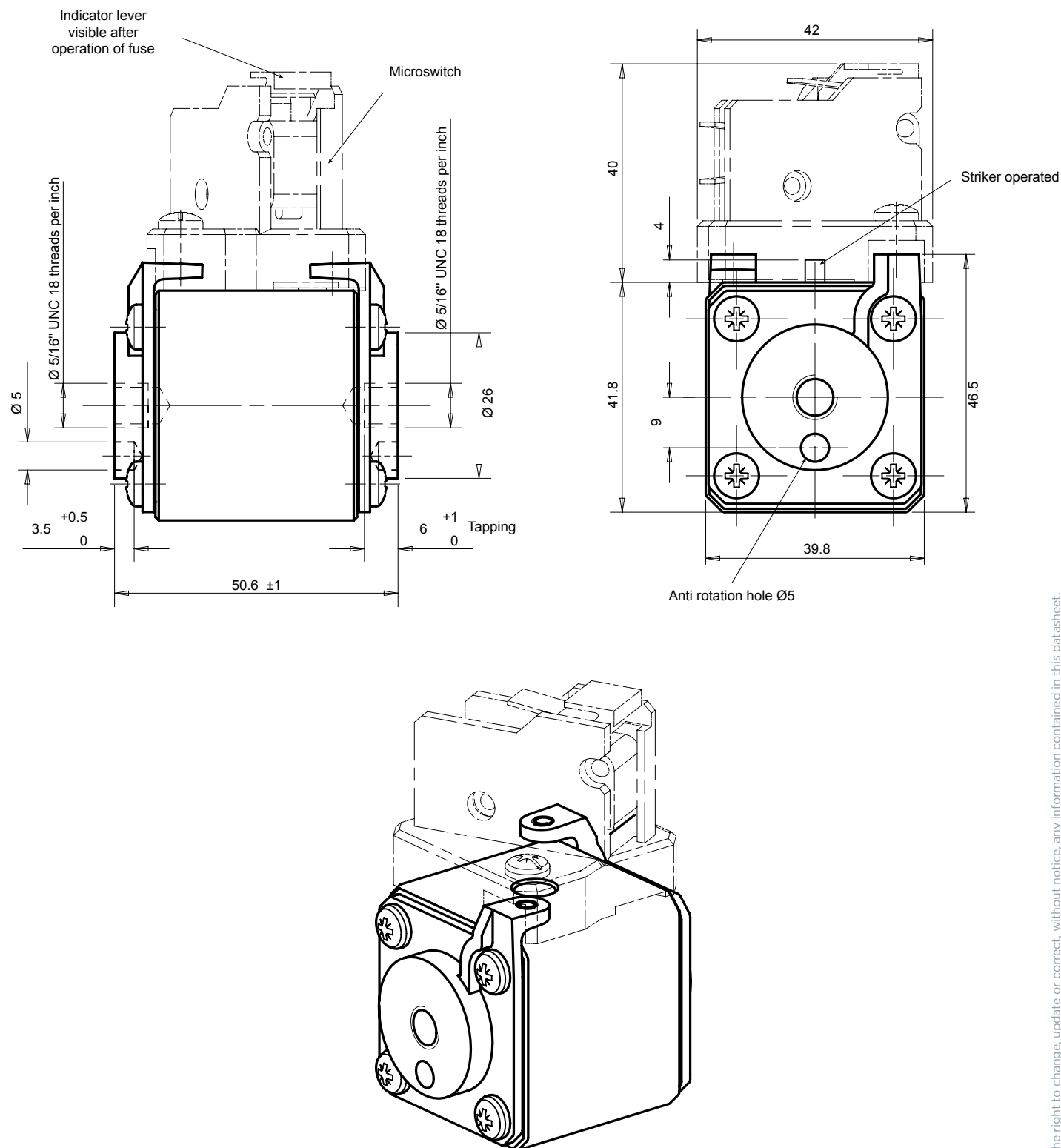
Dimensions in mm

Protistor® size 30 aR

600 - 690VAC (IEC) / 700VAC (UL)

DIMENSIONS

Size 30 type TTI (107300)



Dimensions in mm