

Protistor® size 71 gR

690VAC (IEC)

Square Body High-Speed Fuse-Links AC Protection

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

The Protistor® gR have been engineered to provide full range protection to eliminate all overloads and short circuit fault. Each fuse is 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.

All fuse-links can be equipped with a low voltage trip-indicator which can operate a field mountable microswitch.

Features Benefits

- Excellent cycling capability
- Multiple body sizes and terminals or blades combination
- Extremely fast acting
- Eliminate all overloads
- Low I^2t for improved semiconductor protection
- gR Class according to IEC 60269-4 and VDE 636-23

Applications

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

Technical data overview

Voltage AC	690 VAC
Ampere Range (A)	125 ... 500 A
Speed/Characteristic	gRB
I.R. AC (kA)	150 kA
Product Size	71



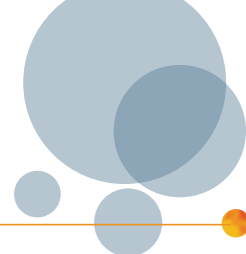
Standards

IEC 60269-4 Compliance



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Product range

Size 71 type TTF-with one ISO metric threaded hole

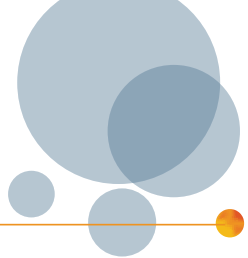
Catalog number	Reference number	Rated voltage AC (IEC)	Rated current I _n	Pre-arcing I ² t	Clearing I ² t at Rated Voltage	Rated breaking capacity AC	Power dissipation at I _n	Weight	Package
PC71GB69V125TF	Q301314	690 V	125 A	1.06 kA ² s	6.2 kA ² s	150 kA	35 W	515 g	3
PC71GB69V160TF	R301315	690 V	160 A	2.39 kA ² s	14 kA ² s	150 kA	38 W	515 g	3
PC71GB69V200TF	S301316	690 V	200 A	5 kA ² s	29.5 kA ² s	150 kA	41 W	515 g	3
PC71GB69V250TF	T301317	690 V	250 A	9.58 kA ² s	56 kA ² s	150 kA	46 W	515 g	3
PC71GB69V315TF	N301427	690 V	315 A	18.4 kA ² s	108 kA ² s	150 kA	53 W	515 g	3
PC71GB69V350TF	V301318	690 V	350 A	23.2 kA ² s	140 kA ² s	150 kA	58 W	515 g	3
PC71GB69V400TF	W301319	690 V	400 A	38.3 kA ² s	225 kA ² s	150 kA	59 W	515 g	3
PC71GB69V500TF	S301707	690 V	500 A	78.1 kA ² s	460 kA ² s	150 kA	64 W	515 g	3

Size 71 for bolted connections

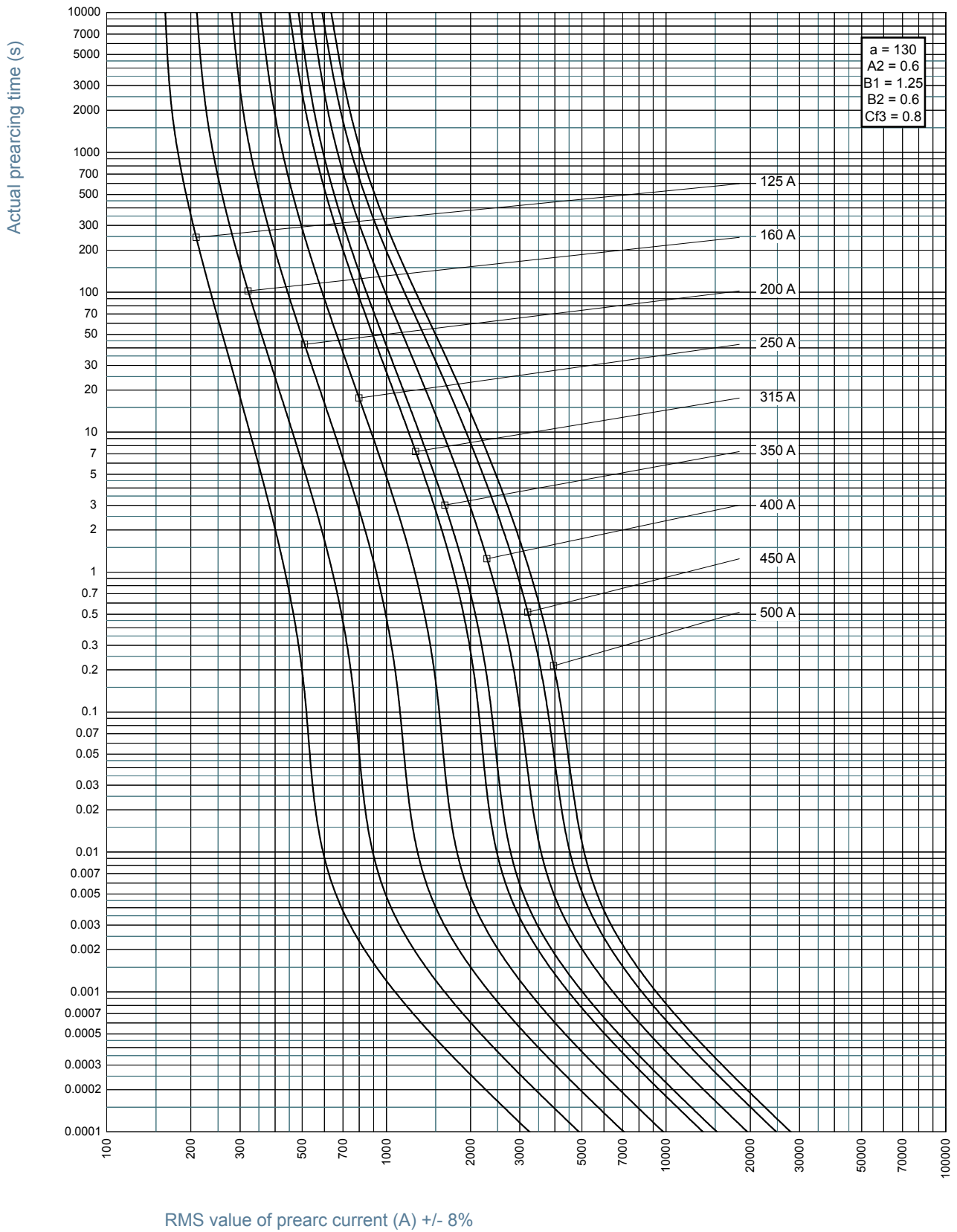
Catalog number	Reference number	Rated voltage AC (IEC)	Rated current I _n	Pre-arcing I ² t	Clearing I ² t at Rated Voltage	Rated breaking capacity AC	Power dissipation at I _n	Weight	Package
PC71GB69V160EF	Z301322	690 V	160 A	2.39 kA ² s	14 kA ² s	150 kA	38 W	540 g	3
PC71GB69V200EF	A301323	690 V	200 A	5 kA ² s	29.5 kA ² s	150 kA	42 W	540 g	3
PC71GB69V250EF	B301324	690 V	250 A	9.58 kA ² s	56 kA ² s	150 kA	48 W	540 g	3
PC71GB69V350EF	C301325	690 V	350 A	23.2 kA ² s	140 kA ² s	150 kA	60 W	540 g	3
PC71GB69V400EF	D301326	690 V	400 A	38.3 kA ² s	225 kA ² s	150 kA	61 W	540 g	3
PC71GB69V500EF	G301858	690 V	500 A	78.1 kA ² s	460 kA ² s	150 kA	67 W	540 g	3

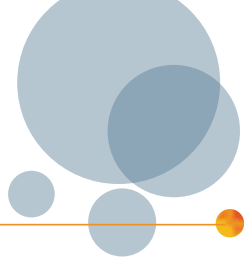
Size 71 type DIN110

Catalog number	Reference number	Rated voltage AC (IEC)	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
PC71GB69V125D1A	B302658	690 V	125 A	1.06 kA ² s	6.2 kA ² s	150 kA	35 W	520 g	3
PC71GB69V160D1A	C302659	690 V	160 A	2.39 kA ² s	14 kA ² s	150 kA	38 W	520 g	3
PC71GB69V200D1A	C302682	690 V	200 A	5 kA ² s	29.5 kA ² s	150 kA	42 W	520 g	3
PC71GB69V250D1A	R302143	690 V	250 A	9.58 kA ² s	56 kA ² s	150 kA	48 W	520 g	3
PC71GB69V450D1A	R301637	690 V	450 A	61.7 kA ² s	360 kA ² s	150 kA	61 W	520 g	3
PC71GB69V500D1A	A301737	690 V	500 A	78.1 kA ² s	460 kA ² s	150 kA	67 W	520 g	3

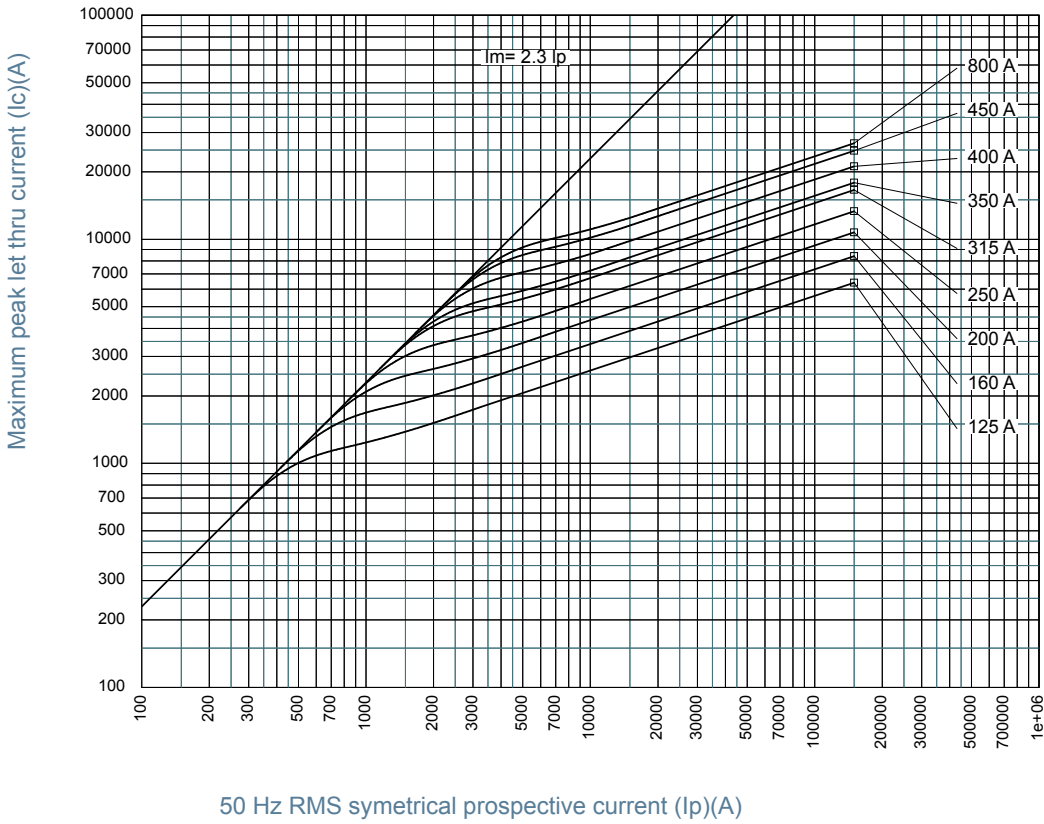


Time current characteristic curves

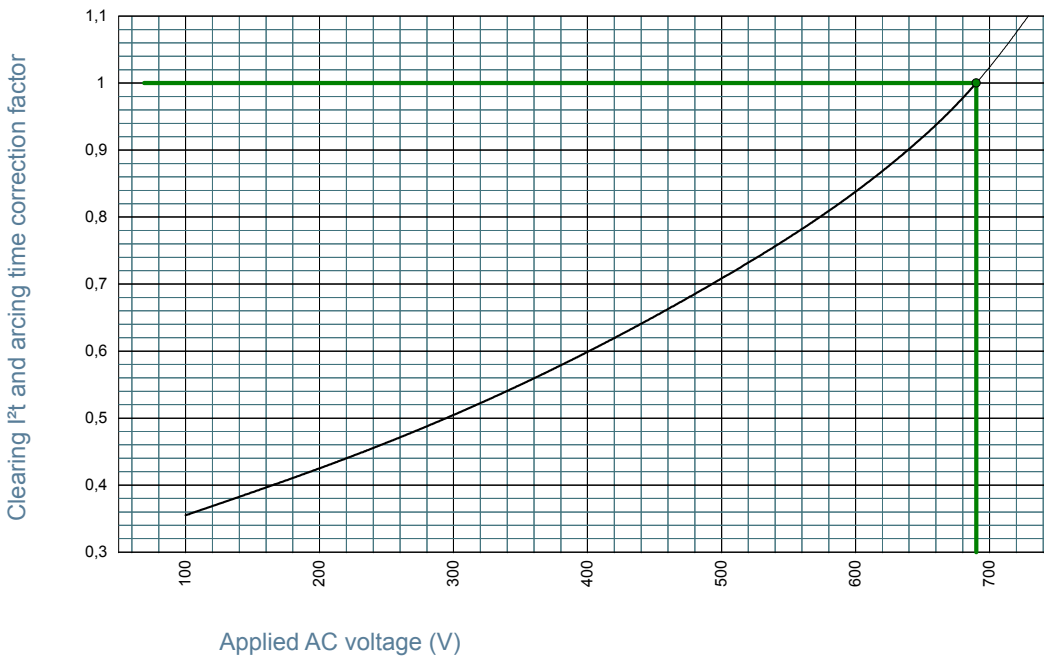


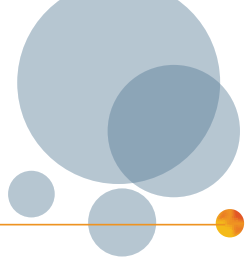


Current limiting diagram

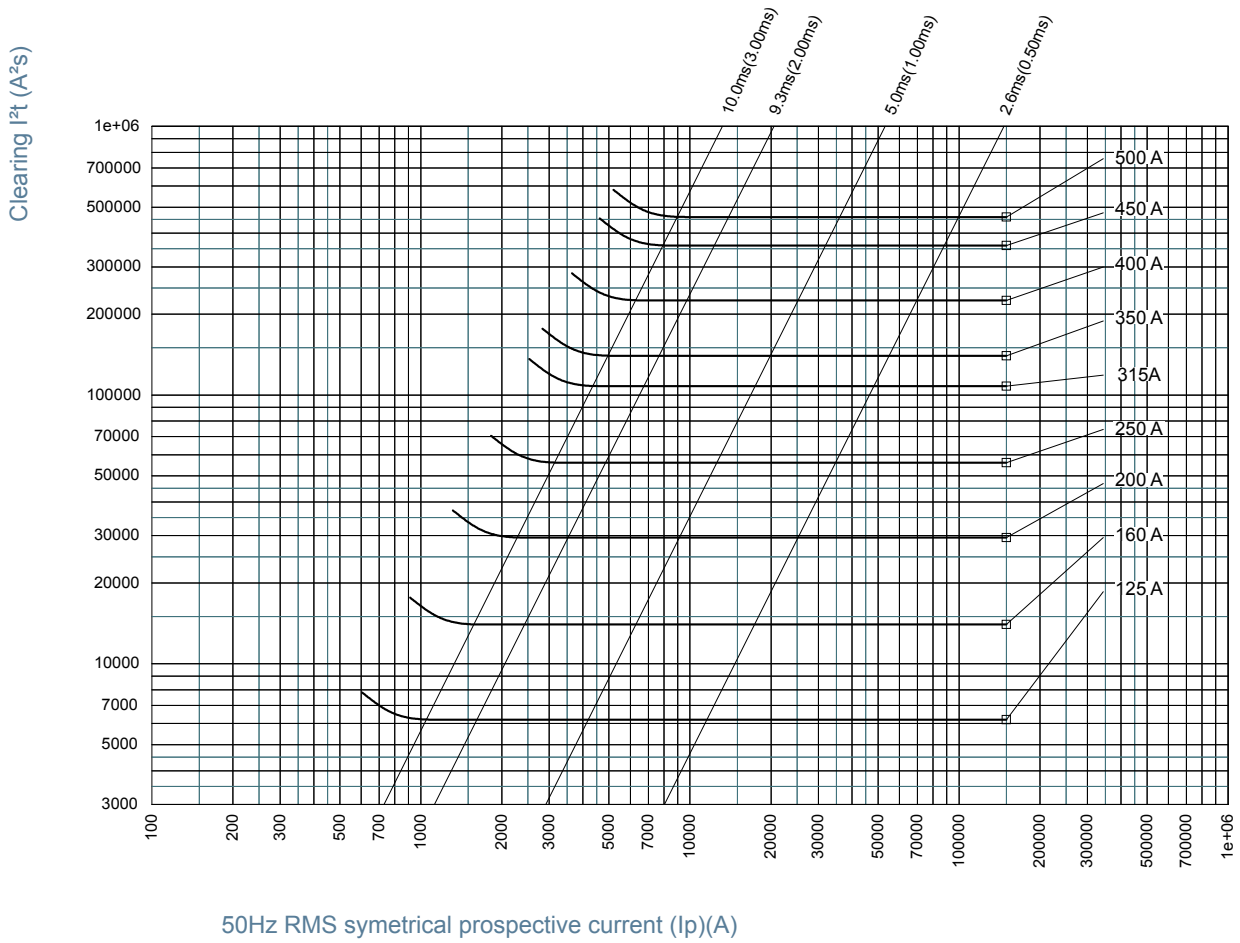


I²t Multiplier coefficient



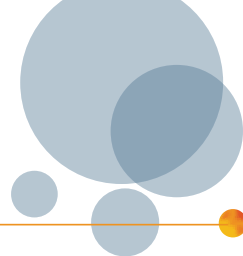


Characteristics total I²t curve

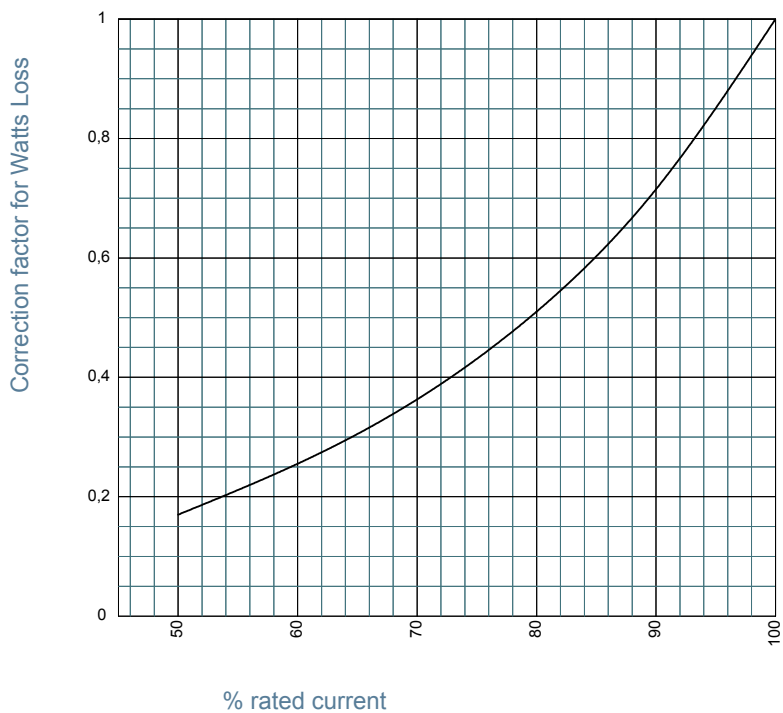


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Power dissipation



Peak arc voltage

