

# Protistor® size 000/00 gR

690VAC (IEC) / 700VAC (UL)

## 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 gR fuses have been engineered to provide full range protection to eliminate all overloads and semiconductor fault. 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 AC	690 VAC
Ampere Range (A)	16 ... 160 A
Size per Standard	000, 00
Speed/Characteristic	gR
I.R. AC (IEC)	200 kA

## FEATURES & BENEFITS

- gR Class according to IEC 60269-4 and VDE 636-23
- Low  $I^2t$  for improved semiconductor protection
- Extremely fast acting
- Eliminate all overloads
- Excellent 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



# Protistor® size 000/00 gR

690VAC (IEC) / 700VAC (UL)

## PRODUCT RANGE



DN000G-  
B69V20

### Size 000 DIN80, vertical body, without indicator

Catalog number	Item number	Size	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	Package
DN000GB69V16	L330060	000	690 V	16 A	8.2 A <sup>2</sup> s	60 A <sup>2</sup> s	200 kA	5.6 W	0.132 kg	6
DN000GB69V20	D330030	000	690 V	20 A	12 A <sup>2</sup> s	80 A <sup>2</sup> s	200 kA	7 W	0.1333 kg	6
DN000GB69V25	E330031	000	690 V	25 A	20 A <sup>2</sup> s	150 A <sup>2</sup> s	200 kA	9 W	0.132 kg	6
DN000GB69V32	F330032	000	690 V	32 A	39 A <sup>2</sup> s	270 A <sup>2</sup> s	200 kA	10 W	0.132 kg	6
DN000GB69V40	G330033	000	690 V	40 A	70 A <sup>2</sup> s	460 A <sup>2</sup> s	200 kA	12 W	0.13 kg	6
DN000GB69V50	H330034	000	690 V	50 A	102 A <sup>2</sup> s	730 A <sup>2</sup> s	200 kA	14 W	0.13 kg	6
DN000GB69V63	J330035	000	690 V	63 A	210 A <sup>2</sup> s	1500 A <sup>2</sup> s	200 kA	16 W	0.132 kg	6
DN000GB69V80	A330073	000	690 V	80 A	475 A <sup>2</sup> s	2900 A <sup>2</sup> s	200 kA	18 W	0.132 kg	6
DN000GB69V100	S330112	000	690 V	100 A	970 A <sup>2</sup> s	6000 A <sup>2</sup> s	200 kA	20 W	0.132 kg	6
DN000GB69V125	T330113	000	690 V	125 A	1900 A <sup>2</sup> s	11800 A <sup>2</sup> s	200 kA	21 W	0.132 kg	6



DN000G-  
B69V32V

### Size 000 DIN80, vertical body, with indicator

Catalog number	Item number	Size	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	Package
DN000GB69V16V	C330190	000	690 V	16 A	8.2 A <sup>2</sup> s	60 A <sup>2</sup> s	200 kA	5.6 W	0.1253 kg	6
DN000GB69V20V	P330017	000	690 V	20 A	12 A <sup>2</sup> s	80 A <sup>2</sup> s	200 kA	7 W	0.1253 kg	6
DN000GB69V25V	Q330018	000	690 V	25 A	20 A <sup>2</sup> s	150 A <sup>2</sup> s	200 kA	9 W	0.1253 kg	6
DN000GB69V32V	R330019	000	690 V	32 A	39 A <sup>2</sup> s	270 A <sup>2</sup> s	200 kA	10 W	0.1253 kg	6
DN000GB69V40V	S330020	000	690 V	40 A	70 A <sup>2</sup> s	460 A <sup>2</sup> s	200 kA	12 W	0.1253 kg	6
DN000GB69V50V	T330021	000	690 V	50 A	102 A <sup>2</sup> s	730 A <sup>2</sup> s	200 kA	14 W	0.1253 kg	6
DN000GB69V63V	V330022	000	690 V	63 A	210 A <sup>2</sup> s	1500 A <sup>2</sup> s	200 kA	16 W	0.1253 kg	6
DN000GB69V80V	G330102	000	690 V	80 A	475 A <sup>2</sup> s	2900 A <sup>2</sup> s	200 kA	18 W	0.1253 kg	6
DN000GB69V100V	Q330110	000	690 V	100 A	970 A <sup>2</sup> s	6000 A <sup>2</sup> s	200 kA	20 W	0.1253 kg	6
DN000GB69V125V	R330111	000	690 V	125 A	1900 A <sup>2</sup> s	11800 A <sup>2</sup> s	200 kA	21 W	0.1253 kg	6

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

Catalog number	Item number	Size	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	Package
DN000GB69V16L	X330277	000	690 V	16 A	8.2 A <sup>2</sup> s	60 A <sup>2</sup> s	200 kA	5.6 W	0.1283 kg	6
DN000GB69V20L	J330173	000	690 V	20 A	12 A <sup>2</sup> s	80 A <sup>2</sup> s	200 kA	7 W	0.1266 kg	6
DN000GB69V25L	K330174	000	690 V	25 A	20 A <sup>2</sup> s	150 A <sup>2</sup> s	200 kA	9 W	0.128 kg	6
DN000GB69V32L	L330175	000	690 V	32 A	39 A <sup>2</sup> s	270 A <sup>2</sup> s	200 kA	10 W	0.1283 kg	6
DN000GB69V40L	M330176	000	690 V	40 A	70 A <sup>2</sup> s	460 A <sup>2</sup> s	200 kA	12 W	0.1283 kg	6
DN000GB69V50L	N330177	000	690 V	50 A	102 A <sup>2</sup> s	730 A <sup>2</sup> s	200 kA	14 W	0.1283 kg	6
DN000GB69V63L	P330178	000	690 V	63 A	210 A <sup>2</sup> s	1500 A <sup>2</sup> s	200 kA	16 W	0.1283 kg	6
DN000GB69V80L	Q330179	000	690 V	80 A	475 A <sup>2</sup> s	2900 A <sup>2</sup> s	200 kA	18 W	0.128 kg	6
DN000GB69V100L	R330180	000	690 V	100 A	970 A <sup>2</sup> s	6000 A <sup>2</sup> s	200 kA	20 W	42.6 g	6
DN000GB69V125L	S330181	000	690 V	125 A	1900 A <sup>2</sup> s	11800 A <sup>2</sup> s	200 kA	21 W	0.1283 kg	6

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# Protistor® size 000/00 gR

690VAC (IEC) / 700VAC (UL)

## PRODUCT RANGE

### Size 000 DIN blade contacts

Catalog number	Item number	Size	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	Package
PC000GB69V16PV	Y210609	000	690 V	16 A	8.2 A <sup>2</sup> s	60 A <sup>2</sup> s	200 kA	5.6 W	150 g	3
PC000GB69V20PV	Z210610	000	690 V	20 A	12 A <sup>2</sup> s	80 A <sup>2</sup> s	200 kA	7 W	150 g	3
PC000GB69V25PV	A210611	000	690 V	25 A	20 A <sup>2</sup> s	150 A <sup>2</sup> s	200 kA	9 W	150 g	3
PC000GB69V32PV	B210612	000	690 V	32 A	39 A <sup>2</sup> s	270 A <sup>2</sup> s	200 kA	10 W	150 g	6
PC000GB69V40PV	C210613	000	690 V	40 A	70 A <sup>2</sup> s	460 A <sup>2</sup> s	200 kA	12 W	150 g	6
PC000GB69V50PV	D210614	000	690 V	50 A	102 A <sup>2</sup> s	730 A <sup>2</sup> s	200 kA	14 W	150 g	6
PC000GB69V63PV	E210615	000	690 V	63 A	210 A <sup>2</sup> s	1500 A <sup>2</sup> s	200 kA	16 W	150 g	3
PC000GB69V80PV	F210616	000	690 V	80 A	475 A <sup>2</sup> s	2900 A <sup>2</sup> s	200 kA	18 W	150 g	3
PC000GB69V100PV	G210617	000	690 V	100 A	970 A <sup>2</sup> s	6000 A <sup>2</sup> s	200 kA	20 W	150 g	3
PC000GB69V125PV	H210618	000	690 V	125 A	1900 A <sup>2</sup> s	11800 A <sup>2</sup> s	200 kA	21 W	150 g	6

### Size 000 BS88, horizontal body, without indicator

Catalog number	Item number	Size	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	Package
BS000GB69V20	T330044	000	690 V	20 A	12 A <sup>2</sup> s	80 A <sup>2</sup> s	200 kA	7 W	0.141 kg	6
BS000GB69V25	V330045	000	690 V	25 A	20 A <sup>2</sup> s	150 A <sup>2</sup> s	200 kA	9 W	0.141 kg	6
BS000GB69V32	W330046	000	690 V	32 A	39 A <sup>2</sup> s	270 A <sup>2</sup> s	200 kA	10 W	0.141 kg	3
BS000GB69V40	X330047	000	690 V	40 A	70 A <sup>2</sup> s	460 A <sup>2</sup> s	200 kA	12 W	0.141 kg	3
BS000GB69V50	Z330049	000	690 V	50 A	102 A <sup>2</sup> s	730 A <sup>2</sup> s	200 kA	14 W	0.141 kg	3
BS000GB69V63	A330050	000	690 V	63 A	210 A <sup>2</sup> s	1500 A <sup>2</sup> s	200 kA	16 W	0.141 kg	6
BS000GB69V80	N330108	000	690 V	80 A	475 A <sup>2</sup> s	2900 A <sup>2</sup> s	200 kA	18 W	0.141 kg	6
BS000GB69V100	H330103	000	690 V	100 A	970 A <sup>2</sup> s	6000 A <sup>2</sup> s	200 kA	20 W	0.1376 kg	6
BS000GB69V125	P330109	000	690 V	125 A	1900 A <sup>2</sup> s	11800 A <sup>2</sup> s	200 kA	21 W	0.1416 kg	3

### Size 000 BS88, horizontal body, with indicator

Catalog number	Item number	Size	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	Package
BS000GB69V20P	Y330117	000	690 V	20 A	12 A <sup>2</sup> s	80 A <sup>2</sup> s	200 kA	7 W	0.1556 kg	3
BS000GB69V25P	Z330118	000	690 V	25 A	20 A <sup>2</sup> s	150 A <sup>2</sup> s	200 kA	9 W	0.1556 kg	3
BS000GB69V32P	A330119	000	690 V	32 A	39 A <sup>2</sup> s	270 A <sup>2</sup> s	200 kA	10 W	0.1556 kg	6
BS000GB69V40P	B330120	000	690 V	40 A	70 A <sup>2</sup> s	460 A <sup>2</sup> s	200 kA	12 W	0.1556 kg	6
BS000GB69V50P	C330121	000	690 V	50 A	102 A <sup>2</sup> s	730 A <sup>2</sup> s	200 kA	14 W	0.1556 kg	6
BS000GB69V63P	D330122	000	690 V	63 A	210 A <sup>2</sup> s	1500 A <sup>2</sup> s	200 kA	16 W	0.1556 kg	3
BS000GB69V80P	E330123	000	690 V	80 A	475 A <sup>2</sup> s	2900 A <sup>2</sup> s	200 kA	18 W	0.1556 kg	3
BS000GB69V100P	F330124	000	690 V	100 A	970 A <sup>2</sup> s	6000 A <sup>2</sup> s	200 kA	20 W	0.1556 kg	3
BS000GB69V125P	G330125	000	690 V	125 A	1900 A <sup>2</sup> s	11800 A <sup>2</sup> s	200 kA	21 W	0.1556 kg	3

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# Protistor® size 000/00 gR

690VAC (IEC) / 700VAC (UL)

## PRODUCT RANGE

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

Catalog number	Item number	Size	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	Package
DN00GB69V16L	S330273	00	690 V	16 A	8 A <sup>2</sup> s	61 A <sup>2</sup> s	200 kA	5 W	0.2026 kg	3
DN00GB69V20L	S330227	00	690 V	20 A	12 A <sup>2</sup> s	86 A <sup>2</sup> s	200 kA	6 W	0.2026 kg	3
DN00GB69V25L	T330228	00	690 V	25 A	18 A <sup>2</sup> s	140 A <sup>2</sup> s	200 kA	8 W	0.2026 kg	3
DN00GB69V32L	V330229	00	690 V	32 A	39 A <sup>2</sup> s	250 A <sup>2</sup> s	200 kA	11 W	0.2026 kg	3
DN00GB69V40L	W330230	00	690 V	40 A	68 A <sup>2</sup> s	450 A <sup>2</sup> s	200 kA	13 W	0.2026 kg	3
DN00GB69V50L	X330231	00	690 V	50 A	116 A <sup>2</sup> s	750 A <sup>2</sup> s	200 kA	16 W	0.2026 kg	3
DN00GB69V63L	Y330232	00	690 V	63 A	210 A <sup>2</sup> s	1400 A <sup>2</sup> s	200 kA	18 W	0.2026 kg	3
DN00GB69V80L	Z330233	00	690 V	80 A	525 A <sup>2</sup> s	3000 A <sup>2</sup> s	200 kA	19 W	0.2026 kg	3
DN00GB69V100L	A330234	00	690 V	100 A	970 A <sup>2</sup> s	5400 A <sup>2</sup> s	200 kA	19.5 W	0.2026 kg	3
DN00GB69V125L	B330235	00	690 V	125 A	1710 A <sup>2</sup> s	9600 A <sup>2</sup> s	200 kA	24 W	0.2026 kg	3
DN00GB69V160L	C330236	00	690 V	160 A	4270 A <sup>2</sup> s	22400 A <sup>2</sup> s	200 kA	25 W	0.2026 kg	3

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

Catalog number	Item number	Size	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	Package
DN00GB69V16D1L	W330276	00	690 V	16 A	8 A <sup>2</sup> s	61 A <sup>2</sup> s	200 kA	5 W	190 g	3
DN00GB69V20D1L	P330247	00	690 V	20 A	12 A <sup>2</sup> s	86 A <sup>2</sup> s	200 kA	6 W	190 g	3
DN00GB69V25D1L	Q330248	00	690 V	25 A	18 A <sup>2</sup> s	140 A <sup>2</sup> s	200 kA	8 W	190 g	3
DN00GB69V32D1L	R330249	00	690 V	32 A	39 A <sup>2</sup> s	250 A <sup>2</sup> s	200 kA	11 W	190 g	3
DN00GB69V40D1L	S330250	00	690 V	40 A	68 A <sup>2</sup> s	450 A <sup>2</sup> s	200 kA	13 W	190 g	3
DN00GB69V50D1L	T330251	00	690 V	50 A	116 A <sup>2</sup> s	750 A <sup>2</sup> s	200 kA	16 W	190 g	3
DN00GB69V63D1L	V330252	00	690 V	63 A	210 A <sup>2</sup> s	1400 A <sup>2</sup> s	200 kA	18 W	190 g	3
DN00GB69V80D1L	W330253	00	690 V	80 A	525 A <sup>2</sup> s	3000 A <sup>2</sup> s	200 kA	19 W	190 g	3
DN00GB69V100D1L	X330254	00	690 V	100 A	970 A <sup>2</sup> s	5400 A <sup>2</sup> s	200 kA	19.5 W	190 g	3
DN00GB69V125D1L	Y330255	00	690 V	125 A	1710 A <sup>2</sup> s	9600 A <sup>2</sup> s	200 kA	24 W	190 g	3
DN00GB69V160D1L	Z330256	00	690 V	160 A	4270 A <sup>2</sup> s	22400 A <sup>2</sup> s	200 kA	25 W	190 g	3

### Size 00 DIN blade contacts

Catalog number	Item number	Size	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	Package
PC00GB69V16PV	L330267	00	690 V	16 A	8 A <sup>2</sup> s	61 A <sup>2</sup> s	200 kA	5 W	210 g	3
PC00GB69V20PV	W330207	00	690 V	20 A	12 A <sup>2</sup> s	86 A <sup>2</sup> s	200 kA	6 W	210 g	3
PC00GB69V25PV	X330208	00	690 V	25 A	18 A <sup>2</sup> s	140 A <sup>2</sup> s	200 kA	8 W	210 g	3
PC00GB69V32PV	Y330209	00	690 V	32 A	39 A <sup>2</sup> s	250 A <sup>2</sup> s	200 kA	11 W	210 g	3
PC00GB69V40PV	Z330210	00	690 V	40 A	68 A <sup>2</sup> s	450 A <sup>2</sup> s	200 kA	13 W	210 g	3
PC00GB69V50PV	A330211	00	690 V	50 A	116 A <sup>2</sup> s	750 A <sup>2</sup> s	200 kA	16 W	210 g	3
PC00GB69V63PV	B330212	00	690 V	63 A	210 A <sup>2</sup> s	1400 A <sup>2</sup> s	200 kA	18 W	210 g	3
PC00GB69V80PV	C330213	00	690 V	80 A	525 A <sup>2</sup> s	3000 A <sup>2</sup> s	200 kA	19 W	210 g	3
PC00GB69V100PV	D330214	00	690 V	100 A	970 A <sup>2</sup> s	5400 A <sup>2</sup> s	200 kA	19.5 W	210 g	3
PC00GB69V125PV	E330215	00	690 V	125 A	1710 A <sup>2</sup> s	9600 A <sup>2</sup> s	200 kA	24 W	210 g	3
PC00GB69V160PV	F330216	00	690 V	160 A	4270 A <sup>2</sup> s	22400 A <sup>2</sup> s	200 kA	25 W	210 g	3

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