

# Protistor<sup>®</sup> size 20x127 gR (GRB/C/D)

1000 to 1500VDC

## SEMICONDUCTOR PROTECTION FUSES

### IEC HIGH-SPEED CYLINDRICAL FUSE-LINKS DC PROTECTION



Specially developed for DC applications, 20x127 gR cylindrical is a fast acting, full range fuse used in the protection of auxiliaries, control circuit and other measuring and monitoring devices.

#### TECHNICAL DATA OVERVIEW

Voltage Range AC	1000 ... 1500 VAC
Ampere Range (A)	6 ... 63 A
Speed/Characteristic	gR
Product Size	20x127 mm

#### FEATURES & BENEFITS

- International 20x127mm (13/16" x 5") for worldwide acceptance
- gR Class according to VDE 636-23 and IEC 60269-4
- Low  $I^2t$  for improved semiconductor protection
- Eliminate all overloads
- Extremely fast acting
- Current limiting
- Excellent cycling capability

#### APPLICATIONS

- DC control circuit, measuring & monitoring auxiliaries circuit

#### STANDARDS

- UL Recognized component
- UL file No. E76491
- IEC 60269-4 Compliance



# Protistor® size 20x127 gR (GRB/C/D)

1000 to 1500VDC

## PRODUCT RANGE

### Size 20x127 gR 1000VDC with striker

Catalog number	Item number	Rated voltage DC (IEC)	Rated current I <sub>n</sub>	Rated breaking capacity DC	Power dissipation at I <sub>n</sub>	Package	Weight
FD20GB100V6T	Z088020	1000 V	6 A	100 kA	3.5 W	10	97 g
FD20GB100V8T	T088774	1000 V	8 A	100 kA	3.8 W	10	97 g
FD20GB100V10T	A089493	1000 V	10 A	100 kA	4.2 W	10	97 g
FD20GB100V12T	B089494	1000 V	12 A	100 kA	5.3 W	10	97 g
FD20GB100V16T	C089495	1000 V	16 A	100 kA	6.6 W	10	97 g
FD20GB100V20T	D089496	1000 V	20 A	100 kA	7.7 W	10	97 g
FD20GB100V25T	E089497	1000 V	25 A	100 kA	9 W	10	97 g
FD20GB100V32T	F089498	1000 V	32 A	100 kA	10.5 W	10	97 g
FD20GC100V40T	S086795	1000 V	40 A	100 kA	13.2 W	10	97 g
FD20GC100V50T	F086186	1000 V	50 A	100 kA	15.5 W	10	97 g
FD20GC100V63T	F083656	1000 V	63 A	100 kA	17.4 W	10	97 g

### Size 20x127 gR 1000VDC without striker

Catalog number	Item number	Rated voltage DC (IEC)	Rated current I <sub>n</sub>	Rated breaking capacity DC	Power dissipation at I <sub>n</sub>	Package	Weight
FD20GB100V6	N089482	1000 V	6 A	100 kA	3.5 W	10	0.1 kg
FD20GB100V8	P089483	1000 V	8 A	100 kA	3.8 W	10	0.1 kg
FD20GB100V10	Q089484	1000 V	10 A	100 kA	4.2 W	10	0.1 kg
FD20GB100V12	R089485	1000 V	12 A	100 kA	5.3 W	10	0.1 kg
FD20GB100V16	S089486	1000 V	16 A	100 kA	6.6 W	10	0.1 kg
FD20GB100V20	T089487	1000 V	20 A	100 kA	7.7 W	10	0.1 kg
FD20GB100V25	V089488	1000 V	25 A	100 kA	9 W	10	0.1 kg
FD20GB100V32	W089489	1000 V	32 A	100 kA	10.5 W	10	0.1 kg
FD20GC100V40	Z087054	1000 V	40 A	100 kA	13.2 W	10	0.1 kg
FD20GC100V50	K083660	1000 V	50 A	100 kA	15.5 W	10	0.1 kg
FD20GC100V63	J083659	1000 V	63 A	100 kA	17.4 W	10	0.1 kg

### Size 20x127 gR 1500VDC with striker



Catalog number	Item number	Rated voltage DC (IEC)	Rated current I <sub>n</sub>	Rated breaking capacity DC	Power dissipation at I <sub>n</sub>	Design	Package	Weight
FD20GB150V0,8T	E075743	1500 V	0.8 A	30 kA	0.9 W	gRB	10	97 g
FD20GB150V1,5T	G075745	1500 V	1.5 A	30 kA	1.4 W	gRB	10	97 g
FD20GB150V2T	B088367	1500 V	2 A	30 kA	1.6 W	gRB	10	97 g
FD20GB150V3,15T	H075746	1500 V	3.15 A	30 kA	2.1 W	gRB	10	97 g
FD20GB150V4T	J075747	1500 V	4 A	30 kA	2.1 W	gRB	10	97 g
FD20GB150V1T	F075744	1500 V	1 A	30 kA	0.9 W	gRB	10	97 g
FD20GB150V5T	C088368	1500 V	5 A	30 kA	2.3 W	gRB	10	97 g

# Protistor® size 20x127 gR (GRB/C/D)

## 1000 to 1500VDC

### PRODUCT RANGE



FD20G-  
B150V0,8

#### Size 20x127 gR 1500VDC without indicator

Catalog number	Item number	Rated voltage DC (IEC)	Rated current I <sub>n</sub>	Rated breaking capacity DC	Power dissipation at I <sub>n</sub>	Design	Package	Weight
FD20GB150V0,8	J081842	1500 V	0.8 A	30 kA	0.9 W	gRB	10	97 g
FD20GD150V10	F081655	1500 V	10 A	30 kA	6.1 W	gRD	10	97 g
FD20GD150V12	B080593	1500 V	12 A	30 kA	6.8 W	gRD	10	97 g
FD20GB150V1	R079894	1500 V	1 A	30 kA	0.9 W	gRB	10	97 g
FD20GD150V16	Q081457	1500 V	16 A	30 kA	8.9 W	gRD	10	97 g
FD20GD150V20	D082803	1500 V	20 A	30 kA	9.6 W	gRD	10	97 g
FD20GD150V25	A080431	1500 V	25 A	30 kA	12 W	gRD	10	97 g
FD20GB150V1,5	K081843	1500 V	1.5 A	30 kA	1.4 W	gRB	10	97 g
FD20GB150V2	Y099243	1500 V	2 A	30 kA	1.6 W	gRB	10	97 g
FD20GB150V3,15	L081844	1500 V	3.15 A	30 kA	2.1 W	gRB	10	97 g
FD20GB150V4	Z099244	1500 V	4 A	30 kA	2.1 W	gRB	10	97 g
FD20GB150V5	A099245	1500 V	5 A	30 kA	2.3 W	gRB	10	97 g
FD20GD150V6	E082804	1500 V	6 A	30 kA	6.3 W	gRD	10	97 g
FD20GD150V8	Z080867	1500 V	8 A	30 kA	6 W	gRD	10	97 g

RMS value of pre-arcing/melting current (A) +- 10%

### TIME CURRENT CHARACTERISTIC CURVES

Pre-arcing time (s)

50 Hz RMS symmetrical prospective current I<sub>p</sub> (A)

### CUT-OFF CURRENT CHARACTERISTIC

Maximum peak let thru current I<sub>c</sub> (A)

MERSEN reserves the right to change, update or correct, without notice, any information contained in this datasheet.

# Protistor® size 20x127 gR (GRB/C/D) 1000 to 1500VDC

---

I<sup>2</sup>T MULTIPLIER COEFFICIENT

L/R TIME CONSTANT VS DC VOLTAGE CAPABILITY

PEAK ARC VOLTAGE



# SCATTERGOOD & JOHNSON LTD

ELECTRICAL ENGINEERING & FLUID CONTROL DISTRIBUTORS

Est.1899

At Scattergood & Johnson Ltd, we pride ourselves on being a technical distributor to specialist industries.

Working with a range of quality product suppliers across a number of specialist markets, we are not your average 'box shifter' - we are your technical and supply chain partner.

We fully support every product we sell - for free! Our internal team and external sales engineers can answer any product or application question, no matter the complexity.

Backing up this technical ability is a range of 50,000+ products available from stock for nationwide next day delivery (same day if required!), or you can collect what you need from any of our trade counters around the UK.

Select your specialist interest below to learn more about how we can help.



Online, In Branch and On the Road - Scattergood & Johnson Ltd, there when you need us.

# [www.scatts.co.uk](http://www.scatts.co.uk)