

SEMICONDUCTOR PROTECTION FUSES



PROTISTOR® FUSES

500-690V AC

gRB/URB FROM 20 TO 400A

SIZE: 000

Features/Benefits

- **Extremely High Interrupting Rating Fuses:**
Protection of Power Semiconductors according to IEC 269. and EN 60269-4
- **500-690V Voltage Rating** (Rating 20 to 400A)
- **gR Class** (gRB Ratings 20 to 125A) According to VDE 636-23.
-Full range protection
-Improving safety and protection
-Allows selective coordination
- **aR Class** (URB Ratings 75 to 400A) According to VDE 636-23 and IEC 269.4
- **Two models according to BS 88-4 and EN 60269.4 Standards:** Z3 Drawing (74mm Between Axes) External open fuse with and without indicator



APPLICATIONS DATA

| VOLTAGE RATING U_N (V) | CLASS | CURRENT RATING I_N (A) | MELTING $I^2t @ 1 \text{ ms}$ I^2t_p (A ² s) | TOTAL CLEARING $I^2t @ U_N$ I^2t_t (A ² s) | WATT LOSSES | | TESTED INTERRUPTING RATING | ESTIMATED INTERRUPTING RATING |
|-------------------------------|-------|-------------------------------|---|---|-------------|-------|----------------------------|-------------------------------|
| | | | | | 0.8 I_N | I_N | | |
| 690 | gRB | 20 | 12 | 80 | 3.8 | 7 | 200 kA @ 660 V | 300 kA @ 660 V |
| | | 25 | 20 | 150 | 5.0 | 9 | | |
| | | 32 | 39 | 270 | 5.5 | 10 | | |
| | | 40 | 70 | 460 | 6.6 | 12 | | |
| | | 50 | 102 | 730 | 7.7 | 14 | | |
| | | 63 | 210 | 1500 | 8.8 | 16 | | |
| | | 80 | 475 | 2900 | 9.9 | 18 | | |
| | | 100 | 970 | 6000 | 11 | 20 | | |
| | | 125 | 1900 | 11800 | 11.6 | 21 | | |
| | | 690 | URB | 75 | 350 | 2250 | | |
| 80 | 390 | | | 2500 | 11.6 | 21 | | |
| 100 | 690 | | | 4200 | 12.7 | 23 | | |
| 110 | 950 | | | 6800 | 13.5 | 24.5 | | |
| 125 | 1300 | | | 8900 | 14.3 | 26 | | |
| 160 | 2700 | | | 16000 | 17.0 | 31 | | |
| 200 | 5250 | | | 31500 | 19.8 | 36 | | |
| 250 | 9900 | | | 52000 | 24.8 | 45 | | |
| 660 500 | URB | 315 | 15500 | 82000 | 31.9 | 58 | 120 kA @ 500 V | |
| | | 350 | 22400 | 110000 | 31.9 | 58 | | |
| | | 400 | 33200 | 160000 | 36.3 | 66 | | |

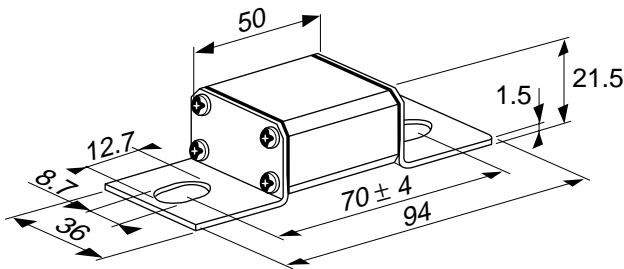
Minimum operating voltage for the external trip-indicator: 20V

BS88

SEMICONDUCTOR PROTECTION FUSES



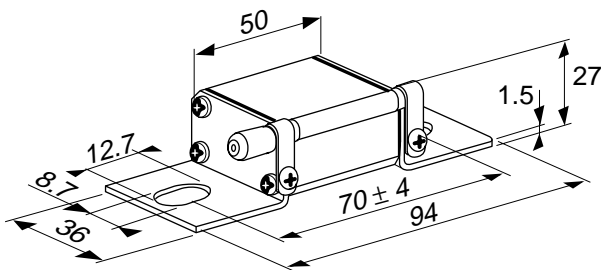
British Standard without open fuse indicator



| CURRENT RATING | CATALOG NO. | REF # |
|----------------|-------------------|---------|
| 20 | 6,9gRB000BS88/020 | T330044 |
| 25 | 6,9gRB000BS88/025 | V330045 |
| 32 | 6,9gRB000BS88/032 | W330046 |
| 40 | 6,9gRB000BS88/040 | X330047 |
| 50 | 6,9gRB000BS88/050 | Z330049 |
| 63 | 6,9gRB000BS88/063 | A330050 |
| 80 | 6,9gRB000BS88/080 | N330108 |
| 100 | 6,9gRB000BS88/100 | H330103 |
| 125 | 6,9gRB000BS88/125 | P330109 |
| 75 | 6,9URB000BS88/075 | B330051 |
| 80 | 6,9URB000BS88/080 | C330052 |
| 100 | 6,9URB000BS88/100 | D330053 |
| 110 | 6,9URB000BS88/110 | E330100 |
| 125 | 6,9URB000BS88/125 | E330054 |
| 150 | 6,9URB000BS88/150 | F330101 |
| 160 | 6,9URB000BS88/160 | F330055 |
| 200 | 6,9URB000BS88/200 | G330056 |
| 250 | 6,9URB000BS88/250 | H330057 |
| 315 | 6,6URB000BS88/315 | J330058 |
| 350 | 5URB000BS88/350 | X330116 |
| 400 | 5URB000BS88/400 | G330194 |



British Standard with external open fuse trip-indicator



| CURRENT RATING | CATALOG NO. | REF # |
|----------------|--------------------|---------|
| 20 | 6,9gRB000BS88P/020 | Y330117 |
| 25 | 6,9gRB000BS88P/025 | Z330118 |
| 32 | 6,9gRB000BS88P/032 | A330119 |
| 40 | 6,9gRB000BS88P/040 | B330120 |
| 50 | 6,9gRB000BS88P/050 | C330121 |
| 63 | 6,9gRB000BS88P/063 | D330122 |
| 80 | 6,9gRB000BS88P/080 | E330123 |
| 100 | 6,9gRB000BS88P/100 | F330124 |
| 125 | 6,9gRB000BS88P/125 | G330125 |
| 75 | 6,9URB000BS88P/075 | H330126 |
| 80 | 6,9URB000BS88P/080 | J330127 |
| 100 | 6,9URB000BS88P/100 | K330128 |
| 110 | 6,9URB000BS88P/110 | L330129 |
| 125 | 6,9URB000BS88P/125 | M330130 |
| 150 | 6,9URB000BS88P/150 | N330131 |
| 160 | 6,9URB000BS88P/160 | P330132 |
| 200 | 6,9URB000BS88P/200 | Q330133 |
| 250 | 6,9URB000BS88P/250 | R330134 |
| 315 | 6,6URB000BS88P/315 | S330135 |
| 350 | 5URB000BS88P/350 | T330136 |
| 400 | 5URB000BS88P/400 | H330195 |

The use of MC 6.3 GR 2-5N blown fuse remote sensing microswitch is possible.
 Ref. Number: Y 310015 mounted on separate trip-indicator.
 See Microswitch section page J10, J12.