

fuse holders to BS88: Part 2: 1975

Safety features

- Full Shrouding for personnel safety and complete compliance with the direct contact electric shock requirements of the 15th Edition of the IEE Wiring Regulations
- Insulating sleeves are fitted to front connected fuse bases to provide increased protection at the cable entry point
- Separate base contact insulating shrouds of great strength and flexibility ensure that no 'live' metal is dangerously exposed when the fuse carrier is removed – this enables an outgoing circuit to be cabled with complete safety to personnel and with continuity of supply to other circuits.
- Anti-vibration features protect against release of a fuse-carrier due to vibration in service. In the 400 amp size this includes a safety catch which automatically locks on the insertion of the fuse carrier.



FIG 1 Front connected fuse base with terminal shroud removed for cabling

'RED SPOT' 20, 32, 63 & 100 amp fuse holders



FIG 2 Cut-away view of 63 amp front connected contact assembly.

List Numbers for ordering purposes

Deter	Alternative type of connection							
Rating amp	FRONT	ВАСК	FRONT/BACK					
20	*RS20H	+RS20P	RS20PH					
32	RS32H	RS32P	RS32PH					
63	RS63H	RS63P	RS63PH					
100	RS100H	RS100P	RS100PH					
200	RS200H	RS200P	RS200PH					
400	RS400H	RS400P	RS400PH					

*Also available with CEGB Cat 1 terminations (List No RST20H)

Also available for flush mounting with sealing facility (List No. RS20F)

Illustrations & dimensions shown on pages 5,6, & 7

'RED SPOT' 200 & 400 amp fuse holders

High quality mouldings, safety shrouds and precision made copper contacts ensure reliable operation

Additional special features

- Through grip handle for maximum control
- Silver plated contacts with generous cross section
- Guides to ensure parallel action on insertion or withdrawal of fuse carrier
- Patented non-twist cable clamping screws of large diameter on the 200 amp and cable clamping plate on the 400 amp fuse holders prevent damage to cables
- Terminal screw locking device, incorporating the principle used in the twelve sided spanner, can be fitted to the hexagon head of the terminal screw, whatever its' position when fully tightened, by using one of the two positions provided for locating the captive screw (arrowed in FIG 3)

FIG 3 Front connected 200 amp 'Red Spot' fuse base with shroud removed and with moulding partly cut-away to show silver plated base contact and terminal screw locking device

FIG 4 Front connected 400 amp 'Red Spot' fuse holder with moulding partly cut-away to show silver plated contacts, red nylon shroud and cable clamping device





Approvals

Approved by leading Authorities including CEGB * (Approval No 29) and used in equipment approved by Lloyds

 Back connected types approved for Categories of duty I & II Front connected types approved for Category of duty II

RST20H (see list numbers) front connected type approved for Category of duty I

H.R.C. Fuse links accommodated

Fuse holder	Type 'T' to BS 88 Part 2 1975	Extended range of Type 'T' to BS 88 Part 2 1975 for motor circuit protection (660 volts a c)						
rating amp	660 volts a c	List No	Current rating amp	Rating for motor starting amp				
20	NIT2-20A (550 volts a c)	NIT20M25 NIT20M32 (415 volts a c)	20 20	25 32				
32	TIA2-32A	TIA32M35 TIA32M40 TIA32M50 TIA32M63	32 32 32 32 32	35 40 50 63				
63	TIA2-32A TIS35-63A	TIS63M80 TIS63M100	63 63	80 100				
100	†TIA2-32A †TIS35-63A TCP80 & 100A	TCP100M125 TCP100M160 TCP100M200	100 100 100	125 160 200				
200	TBC2-63A TC80 & 100A TF125-200A	TF200M250 *TF200M315	200 200	250 315				
400	TKM 250 & 315A TM355 & 400A	TM400M450	400	450				

†Adaptor plate required List No P5372/10 *550 volts a c Note For full details on Type 'T' fuse links, including d c performance, please refer to Publication IEF / 401



FIG 5 Front connected 63 amp fuse holder

Coloured Fuse holders

The standard finish is black, but fuse holders moulded in white, grey or green CEGB approved colours, can be supplied. For ratings and types available see Price list FG/127

Method of cabling

Front connected fuse holders

- 1) Remove red nylon insulating shroud to release cable sleeve
- 2) Remove cable sleeve
- 3) Fit cable sleeve over cable.
- 4) Fit conductor into fuse base terminal and tighten cable clamping screw to secure. If flexible cables are used, their relatively fine strands may be given increased protection by the use of thin wall copper ferrules over the conductor ends. The following should be taken into account
 - a) The inside diameter of the thin wall copper ferrule should match that of the bared conductor end as closely as possible
 - b) The length of the thin wall copper ferrule should match that of the tunnel in the fuse base terminal
 - c) The wall thickness of the ferrule should be thin enough for the ferrule to be compressed by the tightening of the cable clamping screw The flexible conductors will then be consolidated within the deformed ferrule
- 5) Replace red nylon shroud taking care that it holds the cable sleeve in position by locating the shroud in the groove provided in the sleeves

DIMENSIONS

in millimetres and inches

20 amp 'RED SPOT' FUSE HOLDERS



FRONT CONNECTED

FRONT/BACK CONNECTED

BACK CONNECTED - SURFACE







DIAMETER OF CABLE HOLE IN BASE CONTACT

	A	в	с	C ₂	D	E	F	G	н	J	к	L	м	N	Р	х	Υ	Y ₂
mm	27.0	794	54 0	55 O	62.7	34 · 9	M6	13 5	15 1	15.9	22 · 2	28.6	38.1	83 3	30 · 2	5.8	5.56	6.6
in	1 ½6	31/ ₈	21/8	2 ⁵ / ₃₂	2 ¹⁵ / ₃₂	1 ¾	_	17/ ₃₂	19/32	5/8	4 ⁷ /8	1 ½	11/2	3 %32	1 ³ / ₁₆	_	7/32	1⁄4

PANEL DRILLING DIMENSIONS VIEWED FROM FRONT OF PANEL



HOLE REQUIRED IN PANEL FOR FLUSH MOUNTING RS20F



ONE MOUNTING CLIP (LIST No P670/10) IS SUPPLIED WITH EACH FLUSH MOUNTING CARRIER & BASE TYPE RS20F

DIMENSIONS in millimetres and inches

32, 63 & 100 amp 'RED SPOT' FUSE HOLDERS

FRONT/BACK CONNECTED

FRONT CONNECTED





BACK CONNECTED

К

Ε

К

*Some reduction to these cable sizes may be required when using flexible stranded conductors due to their larger effective diameter

Rating Amp		А	в	с	D	E	F	G	н	J	к	L	×	Y
	mm	31.8	103 2	69 9	81 0	73 0	M6	175	15 1	22 2	15 1	28 6	62	5 56
32	in	11⁄4	4 ¹ / ₁₆	23/4	33/16	27/8		11/16	19/32	7/8	19/32	11/8		7/32
	mm	34 9	109 5	75 4	84 1	77 8	M8	17 5	15 1	23 8	15 9	28 6	95	5 56
63	in	13/8	45/16	2 ³¹ / ₃₂	35/16	31/16	-	11/16	19/32	15/16	5/8	11/8	-	7/32
	mm	50 8	139 7	100 0	87 3	93 7	M10	22 2	15 1	27 8	23 0	31 8	12 7	7 15
100	ın	2	51⁄2	315/16	37/16	311/16	_	²/a	19/32	1 ³ / ₃₂	²⁹ /32	11/4	-	⁹ / ₃₂

PANEL DRILLING DIMENSIONS VIEWED FROM FRONT OF PANEL



	N	Р	Q	R	S	Т	U	V	W
mm	64	32	36 5	41 3	52 4	51 6	95	11 1	46 8
ın	1/4	1/8	1 7/16	1 5/8	21/16	21/32	3/8	7/16	1 27/32

DIMENSIONS in millimetres and inches 'RED SPOT' FUSE HOLDERS

200 amp

ł,

t

4



400 amp



	200	amp	400	amp
	mm	in	mm	ın
A	69 9	2¾	98 4	3 1%
в	215 9	8½	254 0	10
С	136 5	53%	192 1	7 ⁹ /16
D	95 3	3¾	114 3	4 1⁄2
E	171 5	6¾	139 7	5½
F	M12	-	M16	_
G	25 4	1	31 8	1 ¼
н	22 2	%	31 8	1 ¼
J	31 8	1 ¼	36 5	17/16
к	22 2	%	57 2	2 1⁄4
L	31 8	1 ¼	38 1	1 ½
м	100 0	3 ^{15/16}	150 8	5 ^{15,} 16
x	16 3	—	20 6	—
Y	9 53	3⁄8	31 8	1 ¼

DIAMETER OF CABLE HOLE IN BASE CONTACT

PANEL DRILLING DIMENSIONS VIEWED FROM FRONT OF PANEL



TWO HOLES TO TAKE M6 cheesehead FIXING SCREWS TWO 27mm (1³/₁₆") DIA HOLES TO CLEAR BUSHINGS (ONE ONLY FOR RS200PH)

	N	Р	۵
mm	19 1	28 6	85 7
in	3%4	1 1/8	3 3%



DIA TO CLEAR BUSHINGS (One only for RS400PH)

	Р	Q
mm	27 0	69 9
ın	1 ¼s	2¾