GEC

'RED SPOT' HRC FUSE HOLDERS

GEC INSTALLATION EQUIPMENT LTD

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

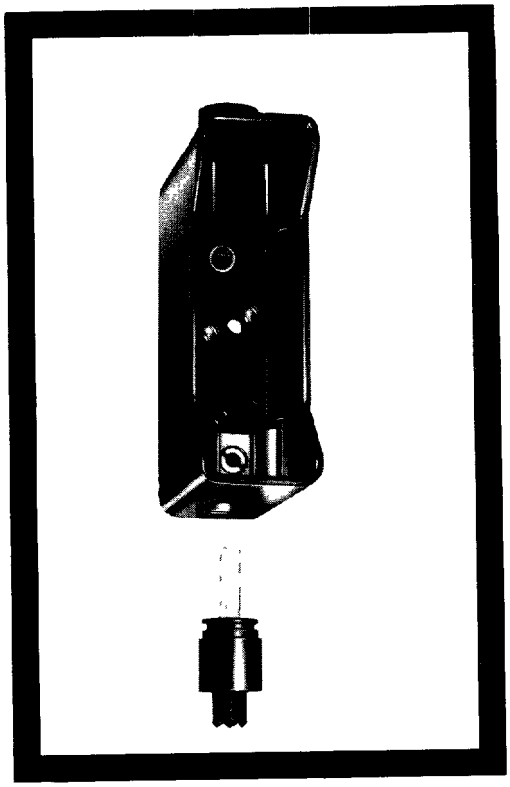
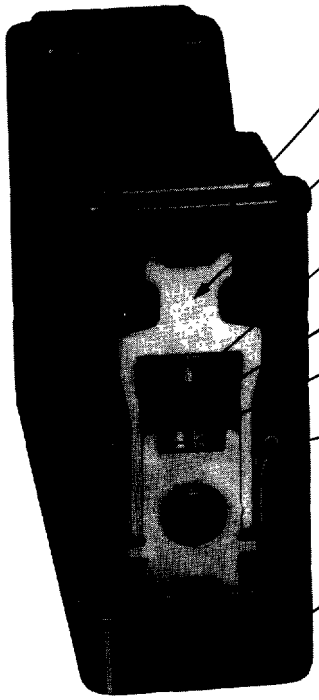


FIG 1 Front connected fuse base with terminal shroud removed for cabling

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



Perfect alignment of contacts with single-screw fixing achieved by registration on facets in moulding

Large contact area and anti-vibration feature incorporated in brass contacts of accurate dimensions

Tapered shank of fuse link fixing screw ensures easy re-entry

Safety shroud (cut-away to show base contact) made from moulded red nylon of great strength and flexibility

Patented non-twist cable clamping screw of large diameter complying with CEGB requirements for Category II duty

Lasting contact pressure ensured by backing stirrups which are located by the shape of the base contact and the moulding

Carrier and base moulded from flame retardant, non-hygroscopic phenolic

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

List Numbers for ordering purposes

Rating amp	Alternative type of connection			*Also available with CEGB Cat 1 terminations (List No RST20H) †Also available for flush mounting with sealing facility (List No. RS20F)
	FRONT	BACK	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	

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)

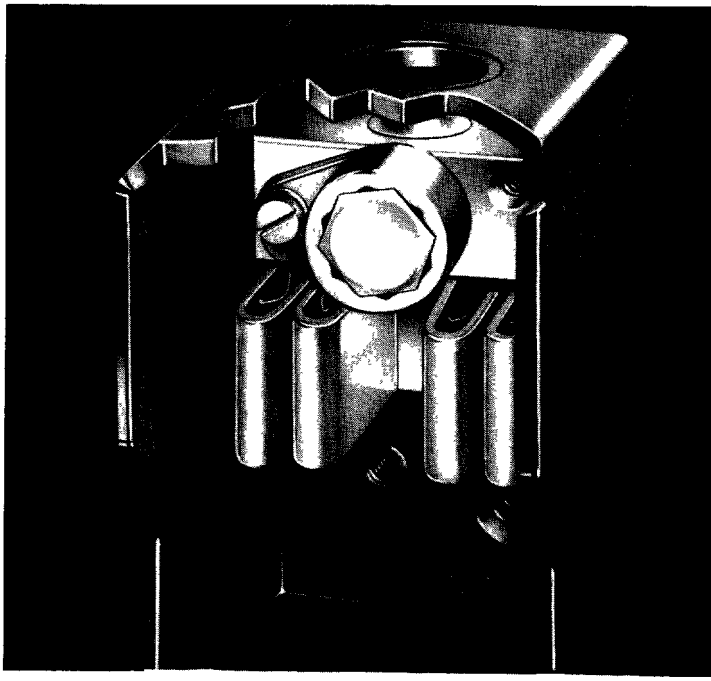


FIG 3 Front connected 200 amp 'Red Spot' fuse base with shroud removed and with moulding partly cut-away to show silver plated base contact and terminal screw locking device

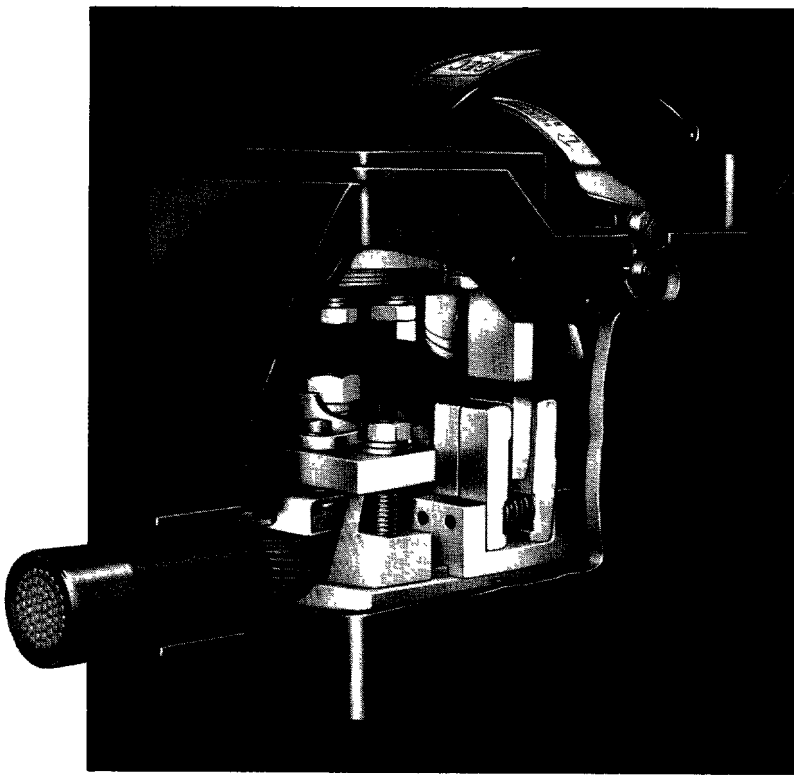


FIG 4 Front connected 400 amp 'Red Spot' fuse holder with moulding partly cut-away to show silver plated contacts, red nylon shroud and cable clamping device

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 rating amp	Type 'T' to BS 88 Part 2 1975 660 volts a c	Extended range of Type 'T' to BS 88 Part 2 1975 for motor circuit protection (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	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

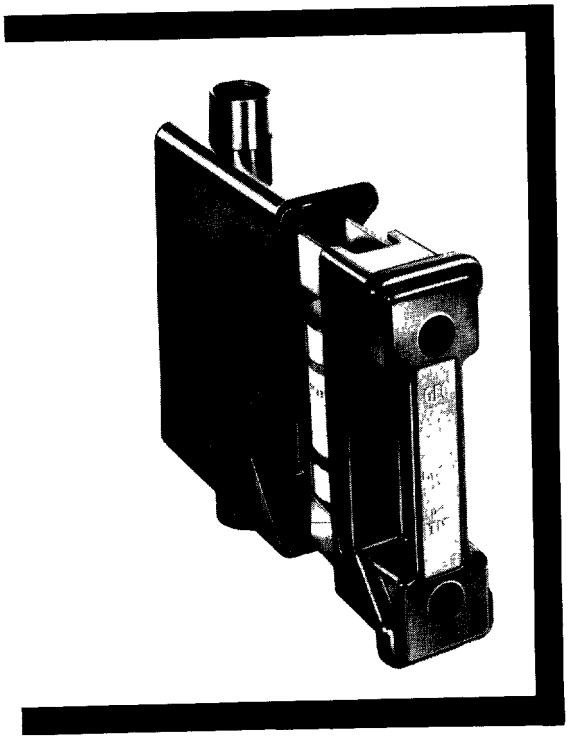


FIG 5 Front connected 63 amp fuse holder

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

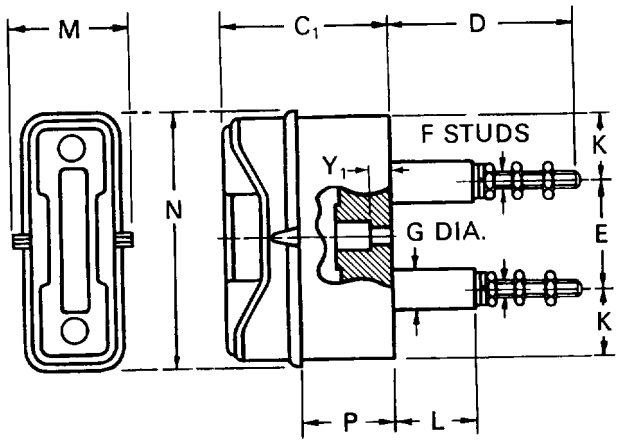
1) Remove red nylon insulating shroud to release cable sleeve
2) Remove cable sleeve
3) Fit cable sleeve over cable.
4) Fit conductor into fuse base terminal and tighten cable clamping screw to secure. If flexible cables are used, their relatively fine strands may be given increased protection by the 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

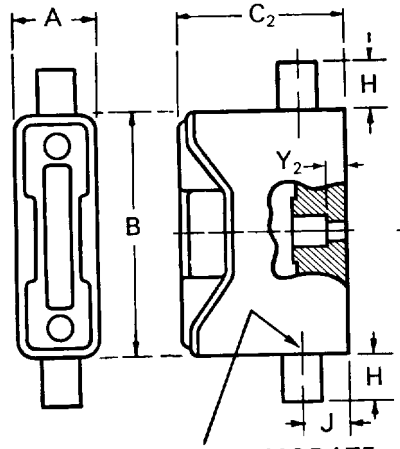
in millimetres and inches

20 amp 'RED SPOT' FUSE HOLDERS

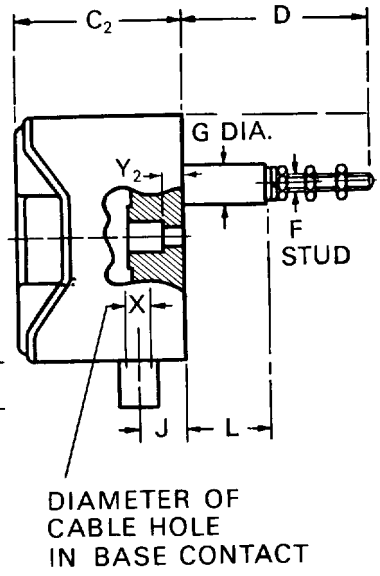
BACK CONNECTED – FLUSH



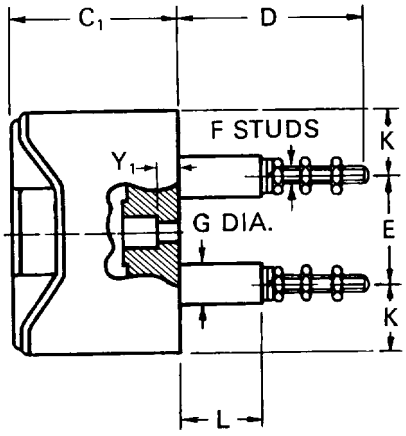
FRONT CONNECTED



FRONT/BACK CONNECTED



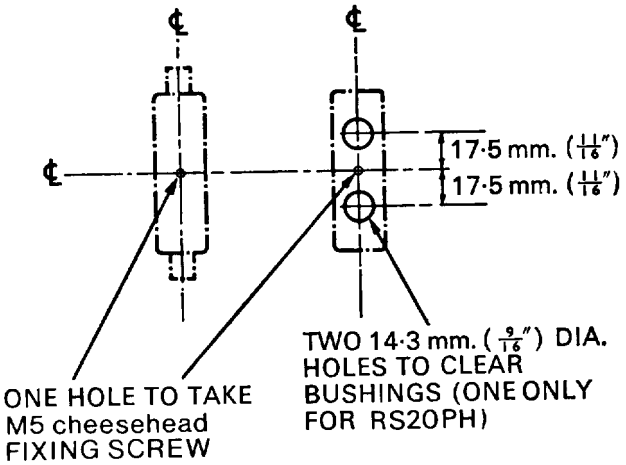
BACK CONNECTED – SURFACE



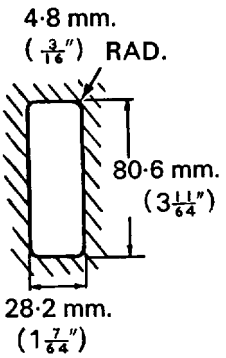
	A	B	C	C_2	D	E	F	G	H	J	K	L	M	N	P	X	Y	Y_2
mm	27·0	79 4	54 0	55 0	62·7	34·9	M6	13 5	15 1	15·9	22·2	28·6	38·1	83 3	30·2	5·8	5·56	6·6
in	1 1/16	3 1/8	2 1/8	2 5/32	2 15/32	1 3/8	—	17/32	19/32	5/8	7/8	1 1/8	1 1/2	3 9/32	1 3/16	—	7/32	1/4

PANEL DRILLING DIMENSIONS VIEWED FROM FRONT OF PANEL

RS20H RS20P & RS20PH



HOLE REQUIRED IN PANEL FOR FLUSH MOUNTING RS20F

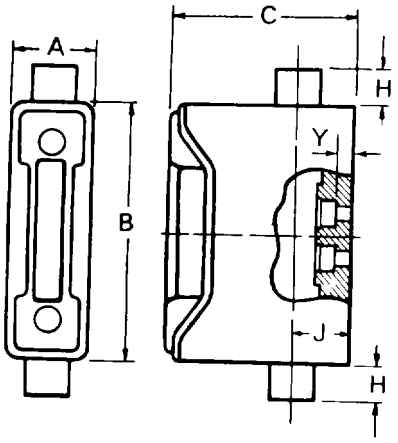


ONE MOUNTING CLIP (LIST No P670/10) IS SUPPLIED WITH EACH FLUSH MOUNTING CARRIER & BASE TYPE RS20F

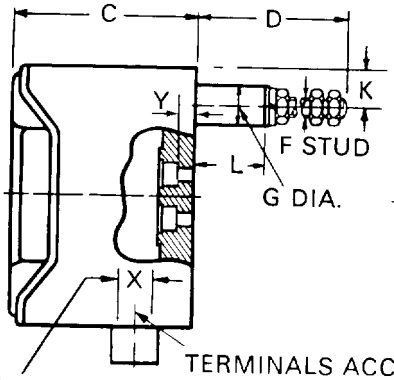
DIMENSIONS in millimetres and inches

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

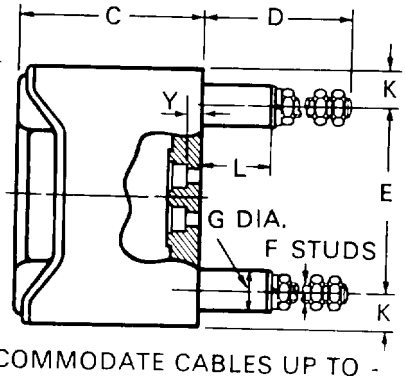
FRONT CONNECTED



FRONT/BACK CONNECTED



BACK CONNECTED



Diameter of cable hole in base contact

TERMINALS ACCOMMODATE CABLES UP TO -

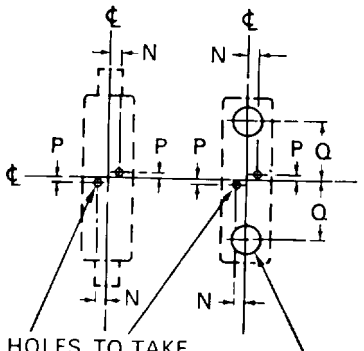
*16 sq mm	32 amp
50 sq mm	63 amp
70 sq mm	100 amp

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

Rating Amp		A	B	C	D	E	F	G	H	J	K	L	X	Y
32	mm	31 8	103 2	69 9	81 0	73 0	M6	17 5	15 1	22 2	15 1	28 6	6 2	5 56
	in	1¼	4 1/16	2¾	3 3/16	2⅞	—	11/16	19/32	⅞	19/32	1⅛	—	7/32
63	mm	34 9	109 5	75 4	84 1	77 8	M8	17 5	15 1	23 8	15 9	28 6	9 5	5 56
	in	1⅜	4 5/16	2 31/32	3 5/16	3 1/16	—	11/16	19/32	15/16	⅝	1⅛	—	7/32
100	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
	in	2	5½	3 15/16	3 7/16	3 11/16	—	⅞	19/32	1 3/32	29/32	1¼	-	9/32

PANEL DRILLING DIMENSIONS VIEWED FROM FRONT OF PANEL

RS32H

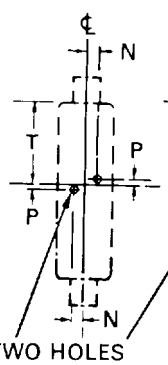


TWO HOLES TO TAKE M5 cheesehead FIXING SCREWS

RS32P and RS32PH

TWO 19·1 mm (¾") DIA HOLES TO CLEAR BUSHINGS (ONE ONLY FOR RS32PH)

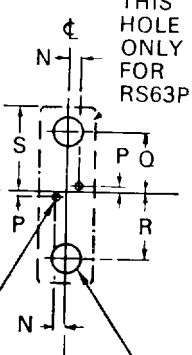
RS63H



TWO HOLES TO TAKE M5 cheesehead FIXING SCREWS

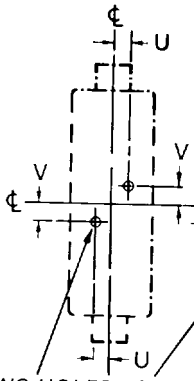
RS63P and RS63PH

THIS HOLE ONLY FOR RS63PH



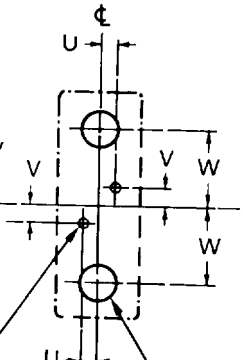
TWO 19 1 mm (¾") DIA HOLES TO CLEAR BUSHINGS FOR RS63P

RS100H



TWO HOLES TO TAKE M6 cheesehead FIXING SCREWS

RS100P and RS100PH



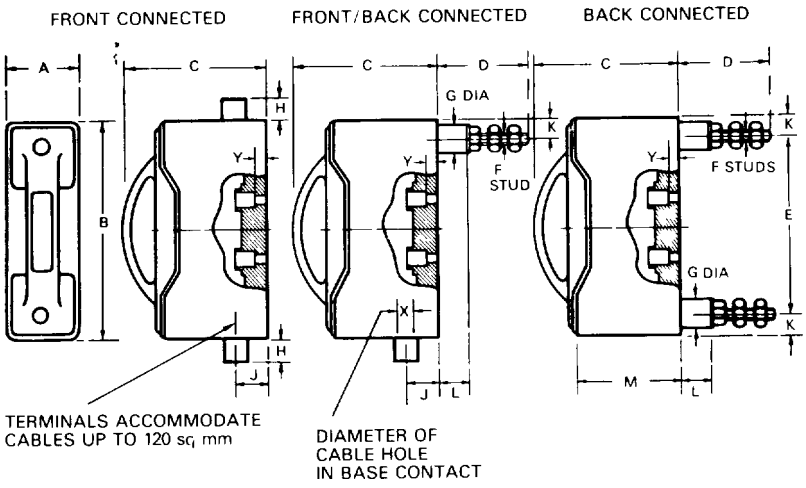
TWO 23 8 mm (15/16") DIA HOLES TO CLEAR BUSHINGS (ONE ONLY FOR RS100PH)

	N	P	Q	R	S	T	U	V	W
mm	6 4	3 2	36 5	41 3	52 4	51 6	9 5	11 1	46 8
in	¼	⅛	1 7/16	1⅝	2 1/16	2 1/32	⅜	7/16	1 27/32

DIMENSIONS in millimetres and inches

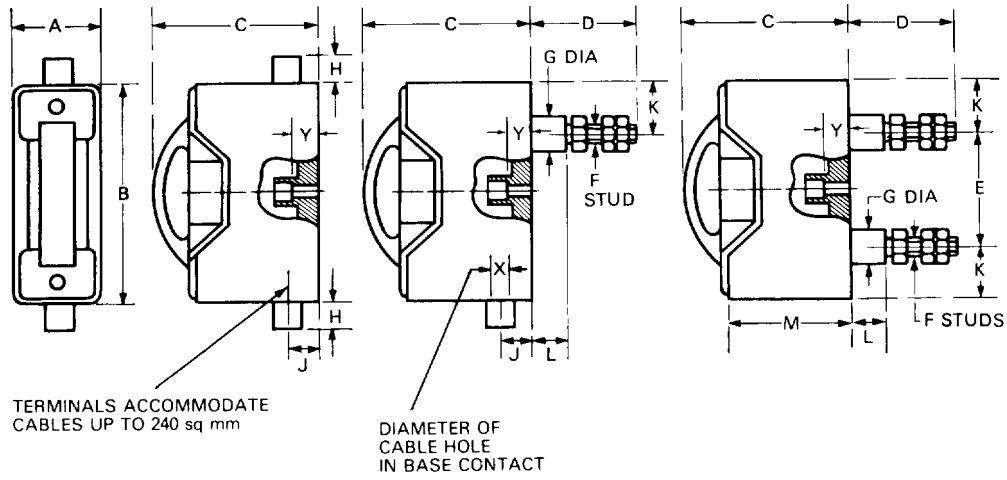
'RED SPOT' FUSE HOLDERS

200 amp

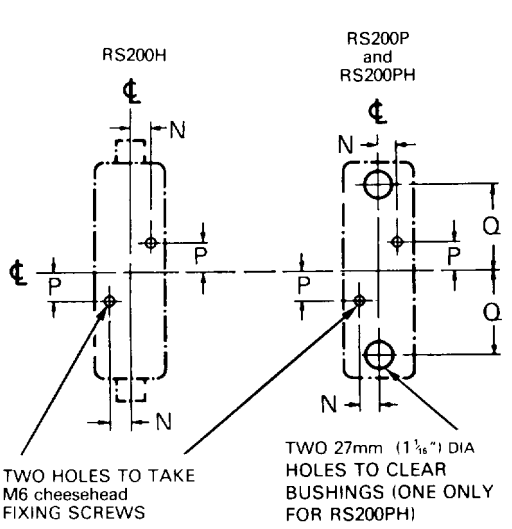


	200 amp		400 amp	
	mm	in	mm	in
A	69 9	2¾	98 4	3⅞
B	215 9	8½	254 0	10
C	136 5	5⅜	192 1	7 9/16
D	95 3	3¾	114 3	4½
E	171 5	6¾	139 7	5½
F	M12	—	M16	—
G	25 4	1	31 8	1¼
H	22 2	⅞	31 8	1¼
J	31 8	1¼	36 5	1 7/16
K	22 2	⅞	57 2	2¼
L	31 8	1¼	38 1	1½
M	100 0	3 15/16	150 8	5 15/16
X	16 3	—	20 6	—
Y	9 53	⅜	31 8	1¼

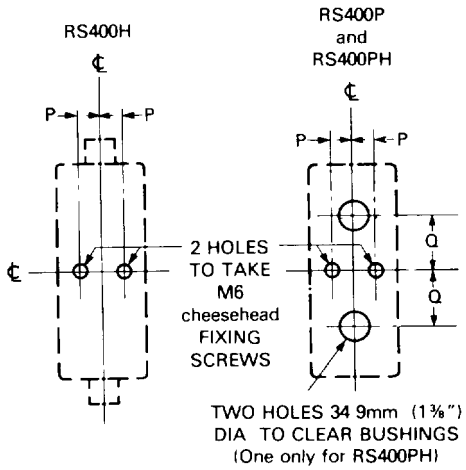
400 amp



PANEL DRILLING DIMENSIONS VIEWED FROM FRONT OF PANEL



	N	P	Q
mm	19 1	28 6	85 7
in	¾	1⅛	3⅜



	P	Q
mm	27 0	69 9
in	1 1/16	2¾