



Data Sheet

Industrial fusebanks Safeclip™ range

A range of fusebanks, neutral and earth bars for electrical distribution in industrial premises where high prospective fault currents can be expected.

Product description

Product description	RS stock no.
Fusebank 32A 4 way	415-367
Fusebank 32A 6 way	415-373
Fusebank 32A 8 way	415-389
Fusebank 32A 12 way	415-395
Neutral bar 3 3 4 way	330-519
Neutral bar 3 3 6 way	330-525
Neutral bar 3 3 8 way	330-531
Neutral bar 3 3 12 way	330-547
Earth bar 3 3 4 way	330-553
Earth bar 3 3 6 way	330-569
Earth bar 3 3 8 way	330-575
Earth bar 3 3 12 way	330-581

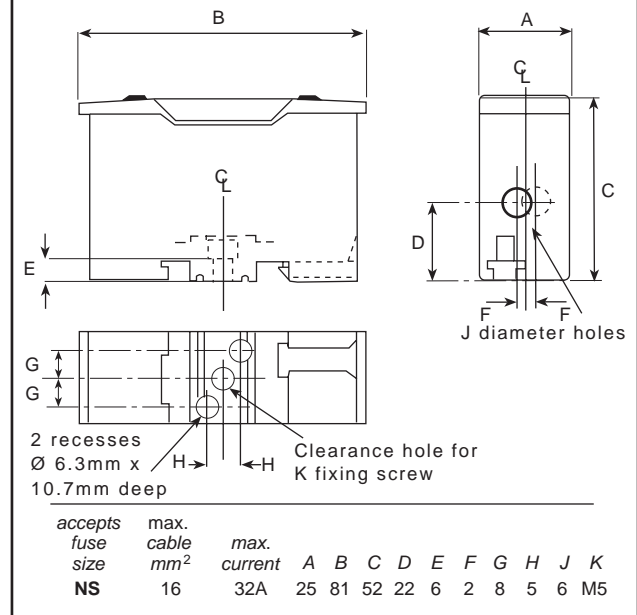
Features

- Full shrouding for personnel safety and complete compliance with the direct electric shock requirements of the 15th Edition of the IEE Wiring Regulations
- Fusebanks may be used in an enclosure to customer's specification, eg. one with a high degree of environmental protection, an all-insulated type or one designed to accommodate other electrical equipment.
- Supplied with phase identification labels, clearly numbered outgoing circuits and outgoing circuit detail labels
- May be mounted onto a flat surface or on support rail using stand-off brackets
- May be used to construct distribution boards, that comply with the requirements of BS5486: Part II: 1979, using the enclosures recommended on Page 2.

The fuseholder

The basic fuseholder, available separately from RS (RS stock no. 415-339), is a front connected type designed for use with NS fuselinks, complying fully with BS88: Part 1: 1975. The base is moulded from a flame-retardant, non-hygroscopic electrical grade phenolic resin to BS771 and features an integral moulded in DIN rail mounting. The base contacts are fully shrouded for personnel safety and complete compliance with the direct contact electric shock requirements of the 15th Edition IEE Wiring Regulations. The fuselink locates into the flame-retardant nylon carrier and, on fitting into the base, the integral blades clip directly into the contacts - no screws or tools are required. The incoming terminal is factory assembled to the fully shrouded, copper busbar.

Figure 1 Dimensions



Fuses

The NS fuselinks are available from RS with current ratings 2A-32A. All ratings have a breaking capacity of 80kA ac, 40kA dc.

Current rating (A)	RS stock no.
2	413-462
4	413-478
6	413-484
10	413-490
16	413-507
20	413-513
25	414-077
32	414-083

Safeclip™ is a trade name of GEC Installation Equipment Ltd.

Fusebank - incoming terminal

The incoming terminal of the fusebank is accessible from the front by removing the cover (Figure 2). The M8 machine screw can be used with heavy duty terminals. 16mm² and 25mm² stranded conductors may be terminated using the crimp terminals available from RS.

Type	Conductor size	RS stock no.
16-8	16mm ²	531-059
25-8	25mm ²	531-071

The incoming terminal will accept conductors up to 120mm² max.

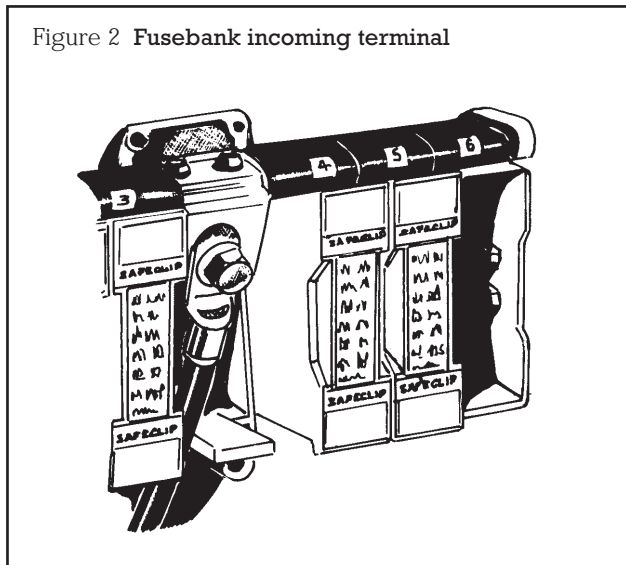


Figure 2 Fusebank incoming terminal

Neutral and earth bars

The neutral and earth bars are manufactured from plain hard copper and are zinc plated. They provide cable terminals for every outgoing circuit/protective conductor, up to 16mm², for both single and three phase applications. The neutral bar has an 8mm stud type terminal for the incoming conductor. The earth bar has an M10 clearance hole at the end of each of its angled support brackets. This can be attached to the stand-off bracket (Figure 4) using an M10 nut and bolt assembly, or the M8 size as supplied. The incoming protective conductor may be terminated at this point.

Stand-off bracket

The stand-off bracket has been designed to mount either a fusebank or an earth plus neutral bar across a pair. The brackets may be fixed to a flat surface via 2 x M6 screws per bracket. Alternatively they may be attached to support rail. This latter option would permit vertical movement of the component during installation.

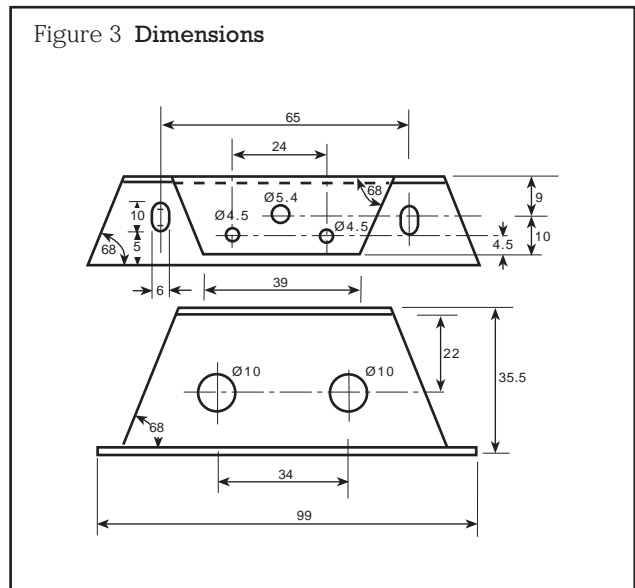


Figure 3 Dimensions

The 4.5mm dia. and 5.4mm dia. holes on the top of the bracket are recommended sizes for M5 and M6 thread forming screws as supplied with the fusebanks and neutral bars.

Distribution boards

The fusebanks and accessories may be used with recommended enclosures to construct distribution boards that comply with the requirements of BS5486: Part II: 1979. Care should be exercised when spacing the components apart particularly when constructing triple pole and neutral types. The minimum wiring space of 40mm from the base can be achieved using the stand-off brackets.

This wiring space can be further increased by using M6 steel spacers, available from RS, to mount the support rail further away from the back of the enclosure.

Recommended enclosures

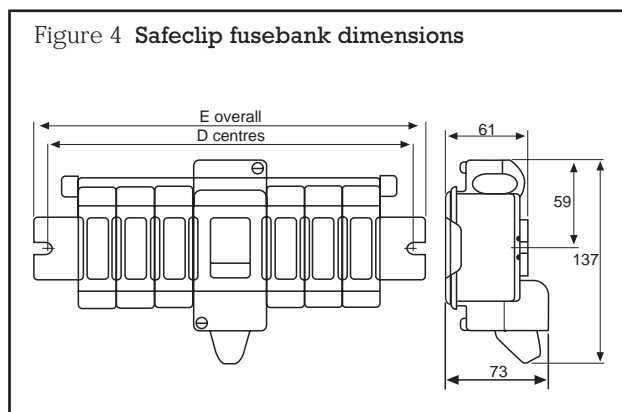
A range of wall mounting enclosures, manufactured from 1.2mm cold rolled sheet steel and finished in a light grey hammer epoxy powder paint to RAL 7032, is available from RS. These IP54 protected enclosures are pre-punched to provide the correct fixing centres for fusebank mounting (refer to the selection table on Page 3).

Pre-punched fixing centres for support rail

Three sets of pre-punched fixing centres are available in each enclosure.

Enclosure/ RS stock no.	Size (external)			A		B		C	
	W.	D.	H.	Hor.	Ver.	Hor.	Ver.	Hor.	Ver.
186-4502	300	150	300	192	245	245	200	210	210
186-4518	450	142	300	298	245	402	200	360	210
186-4849	400	200	600	193	545	245	500	310	510
186-4877	500	200	600	298	545	402	545	410	510

- A. For 4-way fusebanks in RS stock nos. 186-4502 and 186-4849
8-way fusebanks in RS stock nos. 186-4518 and 186-4877
- B. For 16-way fusebanks in RS stock nos. 186-4502 and 186-4849
12-way fusebanks in RS stock nos. 186-4518 and 186-4877
- C. For mounting plates



Fusebank RS stock no.	No. of ways	D	E
415-367	4	193	206
415-373	6	245	259
415-389	8	298	311
415-395	12	402	416

Product selection for distribution board construction

Single pole and neutral (inc. earth)

No. of ways	Fusebank RS stock no.	Neutral bar RS stock no.	Earth bar RS stock no.	Recommended enclosure RS stock no.	Stand-off brackets RS stock no.	Support rail RS stock no.
4	1 x 415-367	1 x 330-519	1 x 330-553	186-4502	1 kit of 4 601-035	1 set of 4 x 1m lengths (inc. fixings) 606-844
6	1 x 415-373	1 x 330-525	1 x 330-569	186-4502		
8	1 x 415-389	1 x 330-531	1 x 330-575	185-4518		
12	1 x 415-395	1 x 330-547	1 x 330-581	186-4518		

Triple pole and neutral (inc. earth)

No. of ways	Fusebank RS stock no.	Neutral bar RS stock no.	Earth bar RS stock no.	Recommended enclosure RS stock no.	Stand-off brackets RS stock no.	Support rail RS stock no.
4	3 x 415-367	1 x 330-519	1 x 330-553	186-4849	2 kits of 4 601-035	1 set of 4 x 1m lengths (inc. fixings) 606-844
6	3 x 415-373	1 x 330-525	1 x 330-569	186-4849		
8	3 x 415-389	1 x 330-531	1 x 330-575	185-4877	2 kits of 4 601-035	
12	3 x 415-395	1 x 330-547	1 x 330-581	186-4877		

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