

Heavy Duty Fuse Boards to Sellafield Limited Specification

Distribution fuse boards are used where reliability in both operation and protection are paramount or where fault levels are very high. In the UK, the nuclear and power generation sectors are large users of these products, including Sellafield Limited and Magnox.

Blakley Electrics produces a range of heavy duty fuse boards, manufactured to the specific requirements of Sellafield Limited, for permanent installation. They can be supplied for 400V TP&N operation, 230V SP&N operation or 110V DP operation. Boards configured for TP&N and SP&N operation have a separate neutral bar and all boards have a separate earth bar.

FB series single-phase and neutral, double-pole and three phase and neutral fuse boards are wall mounting and incorporate Red Spot fuse banks, which are available with fuse carriers rated at 20A, 32A, 63A, 100A and 200A, 4 way to 12 way, subject to rating (see overleaf).

Standard enclosures provide protection to IP54, are of seam welded construction, incorporate side hinged, padlockable doors, have removable top and bottom gland plates and external fixing lugs. As standard they do not incorporate inset panels / shield plates and neutral / earth bars are unshrouded.

Enclosures are made from mild steel and have a five stage, high quality, outdoor grade paint finish, comprising of degreasing in an acid bath, followed by total immersion in a zinc phosphate pre-treatment solution and an electrostatically applied top coat of polyester powder, oven dried, shade Dark Admiralty Grey.

Boards can be supplied equipped with suitable HRC fuses to BS88 or they can be supplied unequipped. Please see over the page for the full range of FB series Sellafield specification fuse boards.

If you have a requirement for heavy duty distribution boards incorporating BS88 fusegear, for installation at Sellafield or another nuclear installation, please contact our Crayford or Leeds Customer Service Centres.



Heavy duty IP54 fuse board,
three phase and neutral



Heavy duty IP54 fuse board, double pole



Heavy duty IP54 fuse
board, single phase
and neutral

Current rating and fuse acceptance of Red Spot fuse banks incorporated within Sellafeld specification fuse boards.

No. of Ways per Fuse Bank	BS88 Fuse Size & Max Rating		Part Number / Enclosure Size Reference			Max Cable Size mm ²		Max Rating of Supply Protection
			230V SP&N 1 x Fuse Bank per Board	110V DP 2 x Fuse Banks per Board	400V TP&N 3 x Fuse Banks per Board	Incoming	Outgoing	
4	A1	20A	S060941 / FBA	S060956 / FBF	S060971 / FBK	95mm ² (M8)	10mm ²	72A
6	A1	20A	S060942 / FBA	S060957 / FBF	S060972 / FBK			96A
8	A1	20A	S060943 / FBA	S060958 / FBF	S060973 / FBK			128A
12	A1	20A	S060944 / FBB	S060959 / FBG	S060974 / FBL			158A
4	A2	32A	S060945 / FBC	S060960 / FBH	S060975 / FBM	300mm ² (M10)	16mm ²	115A
6	A2	32A	S060946 / FBC	S060961 / FBH	S060976 / FBM			154A
8	A2	32A	S060947 / FBC	S060962 / FBH	S060977 / FBM			205A
12	A2	32A	S060948 / FBD	S060963 / FBI	S060978 / FBN			253A
4	A3	63A	S060949 / FBC	S060964 / FBH	S060979 / FBM	300mm ² (M10)	50mm ²	227A
6	A3	63A	S060950 / FBC	S060965 / FBH	S060980 / FBM			302A
8	A3	63A	S060951 / FBC	S060966 / FBH	S060981 / FBM			403A
12	A3	63A	S060952 / FBD	S060967 / FBI	S060982 / FBN			499A
4	A4	100A	S060953 / FBE	S060968 / FBJ	S060983 / FBO	400mm ² (M12)	70mm ²	360A
6	A4	100A	S060954 / FBE	S060969 / FBJ	S060984 / FBO			480A
8	A4	100A	S060955 / FBP	S060970 / FBQ	S060985 / FBR			528A
4	B2	200A	S061004 / FBS	S061005 / FBT	S061006 / FBU	500mm ² (M20)	120mm ²	640A
6	B2	200A	S061007 / FBV	S061008 / FBW	S061009 / FBX	2 x 300mm ² (M20)	120mm ²	960A

Enclosure Weights and Dimensions

Enclosure Size Ref.	Height (mm)	Width (mm) #	Depth (mm)	Weight, kg (approx)
FBA	480	385	150	12
FBB	480	556	150	16
FBC	570	490	185	20
FBD	570	709	185	30
FBE	720	630	275	40
FBF	679	385	150	20
FBG	679	556	150	25
FBH	820	490	180	36
FBI	820	709	185	45
FBJ	1010	630	275	53
FBK	900	385	150	37
FBL	900	556	150	30
# Add 60mm to the overall width to include external fixing lugs.				

Enclosure Size Ref.	Height (mm)	Width (mm) #	Depth (mm)	Weight, kg (approx)
FBM	1070	490	185	43
FBN	1070	709	185	51
FBO	1300	630	275	60
FBP	720	744	275	44
FBQ	1010	744	275	58
FBR	1300	744	275	65
FBS	785	700	389	63
FBT	1175	700	389	91
FBU	1565	700	389	122
FBV	785	967	389	73
FBW	1175	967	389	105
FBX	1565	967	389	138
# Add 60mm to the overall width to include external fixing lugs.				

To specify the type reference of a Sellafeld specification FB series fuse board the following details are required.

1. Is the supply SP&N (insert 1N), Double-pole (insert 2P) or TP&N (insert 3N).
2. What is the current rating of the fuse bank i.e. 20A, 32A, 63A, 100A or 200A (insert 20, 32, 63, 100 or 200).
3. How many ways for each fuse bank: 4 way (4W), 6 way (6W), 8 way (8W) or 12 way (12W).

Please note: the maximum number of ways for a 100A fuse bank is 8 (8W) and for a 200A fuse bank it is 6 (6W)

A typical part number is: FB/3N/100/8W/SSSES i.e. three phase and neutral supply, fitted with 3 no. 8 way, 100A fuse banks. Fuses are ordered separately.