

LAWSON FUSES

Lawson Fuses offer an extensive range of fuse-holder and fuse-link designs. Lawson fuse-holders and fuse-banks are approved to major standards and designed to meet a wide range of applications: power distribution, motor protection, electronic, railway, shipping and street lighting.

Two distinct designs of British Standard fuse-holders are available. The BOLTIN range accommodates bolted tag fuse-links to BS 88: Part 2, in ratings of 20, 32, 63, 100, and 200 Amps. The CLIPFIT range accommodates compact dimensioned fuse-links to BS88: Part 6 and is available in ratings of 20, 32, and 63 Amps. Both ranges are available in a variety of colours and terminal configurations.



Both the BOLTIN and CLIPFIT fuse-holders are also available as factory built fuse-bank assemblies. The fuse-banks comprise single-phase assemblies of busbar connected fuse-holders mounted on a back rail, for incorporation in distribution fuse panels.

Lawson fuse-holders also include the well established ranges of PULLCAP and SLYDLOK products. The PULLCAP 240/415V a.c. modular fuse-holders incorporate Types MD and L cylindrical fuse-links to BS88: Part 1 and BS1361. The SLYDLOK range offers a wide variety of panel mounted applications. The range includes miniature fuse-holders for 5 x 20mm and 6.3 x 32mm fuse-links, compact fuse-holders rated up to 60 Amps at 240V a.c., and the W/X fuse-holder series, which accommodates either fuse-links or fuse-wire.

Cylindrical fuse-holders are a versatile option, offering fuse protection in four popular sizes up to a maximum fuse-link rating of 125 Amps. These fuse-holders accept cylindrical fuse-links to IEC60269 with principal dimensions of 8 x 31mm, 10 x 38mm, 14 x 51mm and 22 x 58mm.













LAWSON FUSE-HOLDERS





Introduction

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Quality

Lawson Fuses operates a Quality Management System which has been independently assessed and approved by ASTA Certification Services as complying with ISO 9001 and is supported by the issue of Certificate No. 11050. Lawson manufactured fuse-links have been independently certified by ASTA and where appropriate comply with the the rules of the latest ASTA 20 Scheme, which authorises Lawson Fuses to endorse those products "ASTA (20) CERT"

For details of products other than Fuse-Holders, please ask for other publications.









BOLTIN 660/690V a.c. Fuse-Holders for Fuse-Links to BS88: Part 2 & IEC 60269-2 TYPE LBI



For white fuse-holders substitute WH for BK in list references. Green fuse-holders are available, details on request.

The BOLTIN fuse-holders are available in three versions, front connected, back connected, and front/back connected, in ratings of 20, 32, 63, 100, and 200 Amps. The range fully complies with BS88: Part 2 and is ASTA Certified to a test duty of 80kA at 660V and complies with the current edition of the IEE Wiring Regulations.

List Reference	Current Rating (A)	Colour	Lawse Fuse-L 415V		Solid Link
LBI 20 FC/FC BK LBI 20 FC/BC BK LBI 20 BC/BC BK	20		NIT	SSA1	SLA1 20
LBI 32 FC/FC BK LBI 32 FC/BC BK LBI 32 BC/BC BK	32		GTIA/TIA	SSA2	SLA2 32
LBI 63 FC/FC BK LBI 63 FC/BC BK LBI 63 BC/BC BK	63	Black	TIS	SSA3	SLA3 63
LBI 100 FC/FC BK LBI 100 FC/BC BK LBI 100 BC/BC BK	100		ТСР	SSA4	SLA4 100
LBI 200 FC/FC BK LBI 200 FC/BC BK LBI 200 BC/BC BK	200		CTF/TF	SSB2	SLB2 200
Spare Carriers	Spare Cable Sh	rouds (Grey)	DIN-	Rail Ada	ptor
LBI 20 CA BK LBI 32 CA BK	LBI 20 SH LBI 32 SH		L	BI 20 D/	ł
LBI 63 CA BK	LBI 63 SH		Busbar S	Stud Co	nnector
LBI 100 CA BK LBI 200 CA BK	LBI 100 SH LBI 200 SH			LBI 32 LBI 63	





LAWSON	CURRENT		GENERAL DIMENSIONS (mm)												
REFERENCE	RATING AMPS	А	в	С	D	E	F	G	н		J	к	L	м	N
LBI20	20	27	80	48	60	28.5	M6	16	14	10	5,5	n/a	n/a	15	29
LBI32	32	33	102	65	78	28.5	M6	16	14	16	5.5	6.3	12.7	19	37
LBI63	63	36	112	72	84	28.5	M8	19	14	25	5.5	6.3	12.7	19	39
LBI100	100	53	144	90	85	32	M10	24	14	70	6.5	22	19	23	48
LBI200	200	60	171	143	95	32	M12	30	21	120	6.5	57	38	28	61



CLIPFIT 240/415V a.c. Fuse-Holders for Fuse-Links to BS88: Part 6 & IEC 60269-2 TYPE LCF



For white fuse-holders substitute WH for BK in list references.

CLIPFIT fuse-holders provide a simple safe range designed to accommodate the compact dimension fuse-links to BS88: Part 6 and are ASTA certified to the required test duty. Breaking capacities are 50kA at 240V a.c. and 80kA at 415V a.c. CLIPFIT is available in 20, 32, and 63 Amp ratings, and incorporates an integral DIN rail mounting facility as well as single screw fixing. Front connected, back connected, front/busbar connected and front/back connected configurations are available in black or white as standard colours.

List Reference	Voltage Rating (V)	Current Rating (A)	Colour	Lawson Fuse-Link (BS Ref)	Solid Link
LCF 20 FC/FC BK LCF 20 FC/BBC BK LCF 20 FC/BC BK LCF 20 BC/BC BK	240	20		SS (E1)	SLE1 20
LCF 32 FC/FC BK LCF 32 FC/BBC BK LCF 32 FC/BC BK LCF 32 BC/BC BK	415	32	Black	NS (F1)	SLF1 32
LCF 63 FC/FC BK LCF 63 FC/BBC BK LCF 63 FC/BC BK LCF 63 BC/BC BK	415	63		MES (F2)	SLF2 63
Spare Carriers				Busbar Stud	Connector
LCF 20 CA BK LCF 32 CA Bk LCF 63 CA BK				LBC LBC LBC	32



For back stud (as required).

Panel Drilling. Viewed from front of panel.

LAWSON	CURRENT		GENERAL DIMENSIONS (mm)										
REFERENCE	(AMPS)	A	В	С	D	E	F	G	븄	Ι	Ę.	к	gun.
LCF20	20	25	5 69 50 43 16 M6 23 16 5.5 15 24 5.0									5.0	
LCF32	32	26	80	50	43	17	M6	23	16	5.5	15	30	5.0
LCF63	63	32	90	52	46	17	MB	23	25	5.5	19	38	4.7

D

Threaded stud on

back connected

version.



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LAWSON FUSES

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CLIP-FIT



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G

Maximum

cable size



FUSE-BANKS

TYPE FB/FZ



Both the BOLTIN and CLIPFIT fuse-holders can be supplied as pre-assembled fuse-banks. The fuse-banks consist of single phase assemblies of shrouded busbar connected fuse-holders mounted on a back rail for incorporation into standard and heavy duty distribution fuseboards to facilitate compliance with BS 5486: Part 1, EN60439 - 1 and BS 5486: Part 11. The fuse-banks may be mounted either horizontally or vertically. A fully insulated incoming terminal shroud can be positioned to accept cable entry from varying directions.









LIST	CURRENT	NUMBER				q	ENER	AL D	INENS	ións	(mm)			
REFERENCE	RATING (AMPS)	WAYS	Α	B	С	D	ε	F	0	н	m	٦	к	r,	×
FBLB1 420 FBLB1 620 FBLB1 620 FBLB1 1220	20	4 6 12	160 220 275 390	255	114 172 230 346	85	50	75	10.5	9	30	160	135	56	45
FBLB1 4 32 FBLB1 6 32 FBLB1 8 32 FBLB1 12 32	32	4 8 12	190 280 330 475	170 240 310 455	541 213 285 429	85	50	75	10.5	9	30	180	135	73	45
FBLB1 4 63 FBLB1 6 63 FBLB1 6 63 FBLB1 8 63 FBLB1 12 63	63	4 6 8 12	200 200 355 510	180 260 335 490	153 231 309 465	70	75	110	12,5	9	30	215	215	80	70
FBLB 4 100 FBLB 6 100 FBLB 6 100	100	4 6 8	270 380 490	250 360 470	223 333 665	90	75	110	12.5	9	38	260	215	98	70



FUSE-BANKS

Diversity Factor	BOLTIN	CLIPFIT
	20A, 32A, 63A, 100A	20A, 32A, 63A
4 Way	0.9 0.9 0.9 0.9	0.9 0.9 0.9
6 Way	0.8 0.8 0.8 0.8	0.8 0.8 0.8
8 Way	0.8 0.8 0.8 0.66	0.8 0.8 0.8
12 Way	0.66 0.66 0.66 -	0.66 0.66 0.66
BOLTIN and CLI	PFIT Terminal Bolt Siz	e - Incoming Circuit
	np - 4 / 6 / 8 / 12 Ways	
	np - 4 / 6 / 8 / 12 Ways	
100 Am	np - 4/6/8 Ways	12.5mm
Maximu	ım Cable Sizes - Outgo	oing Circuits
BOLTIN		CLIPFIT
20 Amp - 10m	m² 20	Amp - 16mm ²
32 Amp - 16m		Amp - 16mm ²
63 Amp - 25m		3 Amp - 25mm ²
100 Amp - 70m		, Amp - 25mm
100 Amp - 700		



CLIPFIT Dimensional Drawings





LIST	CURRENT	NUMBER			G	ENER	AL D	IMENS	SIONS	(mm)				
REFERENCE	RATING (AMPS)	OF WAYS	Α	в	С	D	Ē	F	G	Ψ	Т	J	к	L	м
FZ04FB20 FZ06FB20 FZ08FB20 FZ12FB20	20	4 6 8 12	160 220 275 390	140 200 255 370	112 170 228 344	45	50	75	10.5	9	30	130	135	58	45
FZ04FB32 FZ06FB32 FZ08FB32 FZ12FB32	32	4 6 8 12	160 220 275 390	140 200 255 370	113 171 229 345	50	50	75	10.5	9	30	140	135	58	45
FZ04FB63 FZ06FB63 FZ08FB63 FZ12FB63	63	4 6 8 12	190 260 330 475	170 240 310 455	140 212 284 428	60	75	110	12.5	9	30	180	215	60	70



PULLCAP MODULAR FUSE-HOLDERS

TYPE LPC



Component	Current Rating (A)	Colour	List Reference	Lawson Fuse-Link	Solid Link
Carrier	5 5 20 20 32 32 63	White Black Blue Green Red Black Black	LPC 5 CA WH LPC 5 CA BK LPC 20 CA BL LPC 20 CA GN LPC 32 CA RD LPC 32 CA BK LPC 63 CA BK	LA L	SLPC5 SLPC 20 SLPC 20 SLPC 32 SLPC 32 SLPC 32 -
Cover Plate	5 5 20 20 32 32 blank 63	White Black Blue Green Red Black Black Black	LPC 5 CP WH LPC 5 CP BK LPC 20 CP BL LPC 20 CP GN LPC 32 CP RD LPC 32 CP BK LPC 00 CP BK LPC 63 CP BK	LA LA LC LD MD - ME	
Base	32	Black	LPC 32 FC/FC LPC 32 FC/BBC LPC 32 FC/BC LPC 32 BC/BC LPC 32 BC/BC LPC 32 FC/FCL LPC 32 FCL/FCL	DIN rail ada LPC 32 DA	aptor
	63	Black	LPC 63 FC/FC LPC 63 FC/BBC LPC 63 FC/BC LPC 63 BC/BC LPC 63 FCL/FCL		

The PULLCAP 240/415 V a.c. modular fuse-holders incorporate fuse-links to BS88: Part 1 and BS1361.

Note: Individual components are available as fully assembled LPCU units rated at 5, 20, 32 & 63 Amps.

Dimensional Drawings Type LPCU



LAWSON REFERENCE	CURRENT RATING		G	ENER	AL DI	MENS	SIONS	(mm)			
	(AMPS)	A	A B C D E F G H I J K									
LPCU5	5	23.8	65	44	41	19	28A	13.5	Б	11	13	6.35
LPCU20	20	23. 8	65	48	41	19	28A	13.5	8	11	13	8.35
LPCU32	32	23. 8	65	50	41	19	28A	13.5	8	11	13	8.35
LPCU63	83	35	35 98. 5 72 83.5 22 ∯ ₆ ₩ 15 7 20 21.5 8.35								B.35	





SLYDLOK FUSE-HOLDERS

TYPE SLY



List Reference	Current Rating (A)	Colour	Lawson Fuse-Link	Wiring Connections	DIN Rail Adaptor
W 5341 FW W 5342 BC W 5344 MM W 5345 BW	5		W534		SLYM 3
W 15331 FW W 15332 BC W 15334 MM W 15335 BW	15	Black	W1533	FW BC MM BW	-
W 30341 FW W 30342 BC W 30344 MM W 30345 BW	30		W3034	BCT BCB	-
W 60411 FW W 60412 BC W 60414 MM W 60415 BW	60		W6041		-

Notes:

Fuse-holders incorporating fuse-wire, substitute prefix 'W' with 'X'. Details of H range are available on request.



LAW		CURRENT RATING	G	GENER	AL D	IMENS	SIONS	(mm	1)		
TYPE X	TYPE ₩	(AMPS)	Α	В	С	D	E	F	G	Н	Ι
X5	₩5	5	14.2	50.8	25.4	38.1	12.7	3BA	4.5	19	11
X15	₩15	15	17.5	63.5	33.5	38.1	12.7	28A	4.5	23.9	12
X30	₩30	30	25.4	82.6	46.2	50.8	19.1	0BA	4.5	28.6	17
X60	W60	60	31.8	108	51.6	76.2	25.4	%6₩	5.5	38.1	20

Wiring Connections









SLYDLOK FUSE-HOLDERS

TYPE SLY



List Reference	Current Rating (A)	Colour	Lawson Fuse-Link	Wiring Connections	DIN Rail Adaptor
K 511 FW K 522 BC K 533 MM	5	Black	KCC KDC	FW BC	-
K 1011 FW	10	1		MM	-
KP 1011 FW	10		PCC PDC		-

Notes:

Minature Fuse-Links are available to match this range of Fuse-Holders see publication:-LFL/PUB/0502 Low Voltage Fuse-Links Page 21.

Dimensionally KCC/KDC are 6.3 x 32mm, whereas PCC/PDC are 5 x 20mm.

Dimensional Drawings Type K and KP



LAWSON REFERENCE	CURRENT RATING		GEN	ERAL	DIME	NSIO	NS (n	(mm)				
NEI ENERGE	(AMPS)	A	B	G	D	Е	F	G	Н	Ι	J	
K5	5											
K10	10	15.7	5D.B	22.4	38.1	12.7	48A	4.8	3.5	10	38.1	
KP10	10]										

Wiring Connections







MODULAR FUSE-HOLDERS FOR FUSE-LINKS IN ACCORDANCE WITH IEC 60269 -2 TYPE MS



The MS range of modular fuse-holders offer fuse protection in four popular frame sizes in voltage ratings up to 660 Va.c. Modular fuse-holders accept cylindrical fuse-links up to a maximum rating of 125 Amps, with principle dimensions of 8.5×31.5 , 10.3×38 , 14×51 and 22×58 mm. Conversion kits are available to assemble 2,3 or 4-pole units.

List Reference	Current Rating (A)	Dimensions (mm)	Lawson Fuse-Link	Solid Link	Colour
MSC 81 MSC 81 <i>N</i>	20	8.5x31.5	LPVG 8	SLLPV 820	
MSC 101 MSC 101 <i>I</i> MSC 101 <i>N</i>	32	10.3x38	LPVG 10	SLLPV 10 32	Grey
MS 101 MS 101 N			LPVM 10		
MS 141 MS 141 N	50	14x51	LPVG 14 LPVM 14	SLLPV 14 50	
MS 221 MS 221 N	125	22x58	LPVG 22 LPVM 22	SLLPV 22 125	

I =Indicator, N =Integral Neutral link

Modular Fuse-Holder Dimensional Drawings



MSC 8 & 10 Dimensions mm

MSC	А	В	С	D	Е	F
8	40	77	1 2	4 5	17.5	FO
10	42	11	12	45	17.5	29

MS 10, 14 & 22 Dimensions mm

MS	А	В	С	D	Е	F
10	43	77	14	45	17.5	64
14	52	110	11	45	25	81
22	52	140	14	45	35	89





DOUBLE POLE CUT-OUT

TYPE SLFK



This compact Cut-Out has been designed to comply with the latest $requirements \ of \ the \ Wiring \ Regulations \ and \ the \ Electric ity at \ Wo \ rk \ Act.$ It has been rated at 32A, 415Va.c., incorporates fully shrouded top te rminals and utilises fuse-links reference F1 to BS88: Part 6

List Reference	Description	Max Cable	Max Fuse Rating (Amps)	Height (mm)	Width (mm)	Depth (mm)
SL 32 FK	Cut-Out unit complete with fixed neutral link	16mm ²	32	106	64	60

Dimensional Drawings



ç 0 23

62



Ponel drilling

All dimensions in mm



COMPARISON CHARTS

CON	PARISON CHART FOR CLI	FIT FUSE-HULDERS	
LAWSON REFERENCE	BUSSMANN HAWKER	GEC ALSTHOM	BILL
LCF32FC/FCBK	32NNSF	SC32H-D	V32FF
LCF32FC/BBCBK	-	SC32BH	-
LCF32FC/BCBK	32NNSFBS	-	V32FB
LCF32BC/BCBK	32NNBSBS	SC32P	-
LCF32FC/FCWH	32NNSF/W	SC32H-D WHITE	V32FFW
LCF32FC/BBCWH	-	-	-
LCF32FC/BCWH	32NNSFBS/W	-	V32FBW
LCF32BC/BCWH	32NNBSBS/W	SC32PWHITE	-
LCF63FC/FCBK	63ENSF	SC63H-D	V63FF
LCF63FC/BBCBK	-	SC63BH	-
LCF63FC/BCBK	63ENSFBS	-	V63FB
LCF63BC/BCBK	63ENBSBS	SC63P	-
LCF63FC/FCWH	63ENSF/W	SC63H-D WHITE	V63FFW
LCF63FC/BBCWH	-	-	-
LCF63FC/BCWH	63ENSFBS/W	-	V63FBW
LCF63BC/BCWH	63ENBSBS/W	-	-

COMPARISON CHART FOR BOLTIN FUSE-HOLDERS

LAWSON REFERENCE	BUSSMANN	HAWKER	GEC ALSTHOM	BILL	МЕМ	DORMAN SMITH
LBI20FC/FCBK	32NF	CM32FC	RS20H		20MFB	32NNF
LBI20FC/BCBK	32NFBS		RS20PH		20MFD	32NNFB
LBI20BC/BCBK	32NBS		RS20P		20MFC	32NNBS
LBI32FC/FCBK	32AF	CM32F	RS32H		32MFB	2AF
LBI32FC/BCBK	32AFBS		RS32PH		32MFD	32AFBS
LBI32BC/BCBK	32ABS		RS32P		32MFC	32ABS
LBI63FC/FCBK	63BF	CM63F	RS63H		63MFB	63BF
LBI63FC/BCBK	63BFBS		RS63PH		63MFD	63BFBS
LBI63BC/BCBK	63BBS		RS63P		63MFC	63BBS
LBI100FC/FCBK	100CF	CM100F	RS100H	V100FF	100MF	100CF
LBI100FC/BCBK	100CFBS		RS100PH	V100FB	100CFB	100CFBS
LBI100BC/BCBK	100CBS		RS100P	V100BB	100MFC	100CBS
LBI200FC/FCBK	200DF		RS200H	V200FF	200MFB	200DF
LBI200FC/BCBK	200DFBS		RS200PH	V200BF	200MFD	200DFBS
LBI200BC/BCBK	200DBS		RS200P	V200BB	200MFC	200DBS