

LoadSafe

Enclosed Switch Disconnecter Fuse



Features

- Compact – Optimised compact design
- Robust – Rigid steel enclosure with 2mm removable gland plates
- Enhanced Safety – Door interlocking and handle padlock feature as standard
- Flexible Design – Standard product can be Fused or Isolator only

Havells LoadSafe range of enclosed switch disconnector fuses feature a compact design optimised for industrial applications requiring an AC23A utilisation category rating. Primarily engineered for use with BS88 fuse links, the switches are supplied with isolator links fitted and can be used without the addition of fuses, as an industrial switch disconnector.

Current ratings range between 20A-125A and span three frame sizes in SPSN, and TPN/TPSN pole configurations. Enclosure construction is rigid and sized according to pole configuration with cable spreader boxes available for termination of larger cable sizes for ease of installation.



Quality Features

- Conforms to BS EN 6047-3
- 80kA Withstand Rating
- Front Operated Door Interlocked with defeat mechanism
- Handle can be padlocked in ON and OFF position
- AC23A Utilisation Category

Frame Size 1 - 20A-32A



Description	Pole Configuration	Cable Size Termination (mm ²)	Lug Size	BS Fuse Type	Height (mm)	Width (mm)	Depth (mm)	Part No
20A Switch Disconnecter Fuse (without fuses)	SPSN	6 / 10*	M6	A2	225	200	151	LSEDF201SN
32A Switch Disconnecter Fuse (without fuses)	SPSN	6 / 10*	M6	A2	225	200	151	LSEDF321SN
20A Switch Disconnecter Fuse (without fuses)	TPN	6 / 10*	M6	A2	225	265	151	LSEDF203N
32A Switch Disconnecter Fuse (without fuses)	TPN	6 / 10*	M6	A2	225	265	151	LSEDF323N

Frame Size 2 - 63A



Description	Pole Configuration	Cable Size Termination (mm ²)	Lug Size	BS Fuse Type	Height (mm)	Width (mm)	Depth (mm)	Part No
63A Switch Disconnecter Fuse (without fuses)	SPSN	16 / 25*	M6	A3	265	200	151	LSEDF631SN
63A Switch Disconnecter Fuse (without fuses)	TPN	16 / 25*	M6	A3	265	265	151	LSEDF633N
63A Switch Disconnecter Fuse (without fuses)	TPSN	16 / 25*	M6	A3	265	265	151	LSEDF633SN

*With cable spreader box extension fitted

Frame Size 3 - 100A-125A



Description	Pole Configuration	Cable Size Termination (mm ²)	Lug Size	BS Type	Height (mm)	Width (mm)	Depth (mm)	Part No
100A Switch Disconnecter Fuse (without fuses)	SPSN	35 / 50*	M8	A4	340	200	151	LS EDF1001SN
125A Switch Disconnecter Fuse (without fuses)	SPSN	50 / 70*	M8	A4	340	200	151	LS EDF1251SN
100A Switch Disconnecter Fuse (without fuses)	TPN	35 / 50*	M8	A4	340	265	151	LS EDF1003N
125A Switch Disconnecter Fuse (without fuses)	TPN	50 / 70*	M8	A4	340	265	151	LS EDF1253N
100A Switch Disconnecter Fuse (without fuses)	TPSN	35 / 50*	M8	A4	340	265	151	LS EDF1003SN
125A Switch Disconnecter Fuse (without fuses)	TPSN	50 / 70*	M8	A4	340	265	151	LS EDF1253SN

*With cable spreader box extension fitted

Cable Spreader Boxes



Description	Pole Configuration	Height (mm)	Width (mm)	Depth (mm)	Part No
Cable Spreader Box for all SPSN Switch Disconnecter Fuse	SPSN	100	200	151	LS EDF1PCSB
Cable Spreader Box for all TPN / TPSN Switch Disconnecter Fuse	TPN / TPSN	100	265	151	LS EDF3PCSB

Technical Information

Frame Size			Frame Size I	Frame Size II	Frame Size III	
Current Rating	I_e	A	20 / 32A	63A	100A	125A
Rated Operational Voltage ac	U_e	V	415	415	415	415
Rated Insulation Voltage	U_i	V	690	690	690	690
Rated Impulse withstand Voltage	$U_{imp.}$	kV	8	8	8	8
Conventional enclosed thermal Current at 40°C	I_{the}	A	20/32	63	100	125
Rated Frequency		Hz	50	50	50	50
Design temp./ Ambient Temp. Deg. C			40	40	40	40
Utilization category				AC23A		
Rated Enclosed Thermal Current		A	32	63	100	125
Rated Motor Power		KW	15	20	22.2	25
Making Capacity AC23A		A	320	630	1000	1250
Breaking Capacity AC23A		A	256	504	800	1000
Conditional Short ckt current		KA_{rms}	80	80	80	80
Rated Short-time withstand current Add Icu (1 sec)		KA	1.6	2	5	5
Compatible Fuse Links						
- BS88 Fuse (Offset Tag) BUSSMANN™			AAO**	AAO** / BAO**	CEO**	CFTP** (Max 31mm dia)
- BS88 Fuse (Offset Tag) LAWSON™			TIA**	TIA** / TIS**	TCP**	TFP**
Electrical Endurance		No. of Ops.	1500	1500	1500	1500
Mechanical Endurance		No. of Ops.	10000	10000	10000	10000
Temperature withstand range (Ambient)		°C	5 to 40	5 to 40	5 to 40	5 to 40

**Denotes current entry

e.g. For 100A Lawson Fuse Link select TCP100

Product innovation is at the heart of Havells Switchgear. Understanding the challenging needs of our customers continues to bring new ideas for electrical distribution. When it comes to solutions for compliance with metering regulations Havells have the answer to suit a variety of sub-distribution applications.



Tri-load

Tri-load is the only standard distribution board that conveniently separates small power circuits, lighting circuits and mechanical services loads and provides net energy values of each load type.

Features

- Unique three sectioned metered design - Configurable as a power and lighting board or power, lighting and mechanical services
- Pre-installed - Metering and incomer pre-wired for hassle free installation
- Single piece main busbar - Design eliminates potential hotspots
- L2 Building Regulations Compliance - Conforms to L2 Building Regulations simplifying specification



Metered Boards

Havells has a complete range of metered boards with a choice of multi-function and MID certified options as standard. The distribution boards are specifically designed to help provide energy metering to Part L2 of building regulations (England and Wales).

Features

- Pre-wired - metering elements are fully installed
- Pulse/Modbus Comms - Modbus RS485 and Pulse as standard
- Multiple incoming options - flexible installation options
- MID approve metering option - the legal requirement for billing under UK regulation

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