

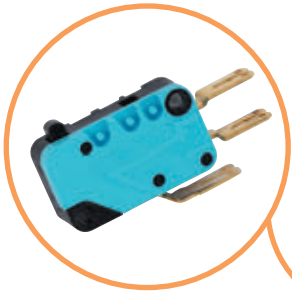
Load Break Switch LBS

Advantages of load break switches LBS

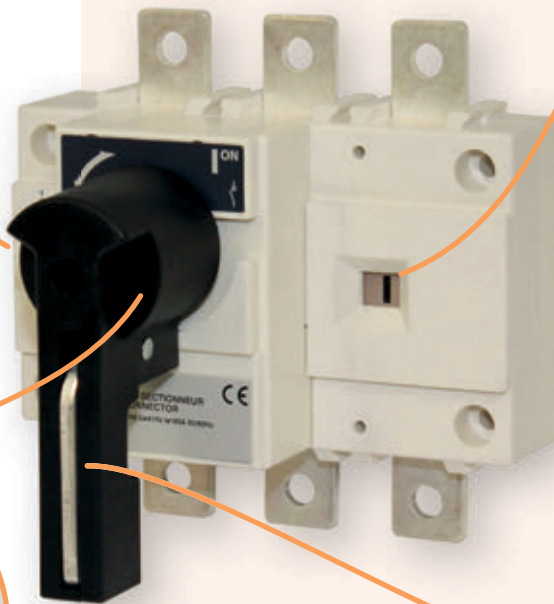
Description

LBS is manually operated 3 pole or 4 pole load break switch in range 160-3200A. It makes and breaks under load conditions and provides safety isolation. LBS is designed for 415 VAC and DC low voltage electrical circuits. LBS switches have been designed, qualified and tested according to the criteria defined by standard IEC 60947-3.

→ Ability to connect auxiliary contacts



→ Double positive break indication given through a position indication window, located directly on the product, and by the operating handle.



→ Position indicator switch power contacts



→ Padlocking external and direct handle

General characteristics

- Double positive break indication given through a position indication window, located directly on the product, and by the operating handle.
- Severe utilisation categories (AC-22 and AC-23).
- High resistance to damp heat (supplied "tropicalised").
- A good centre-to-centre terminal distance (up to 120 mm).
- Connection up to 6x185 mm².

Applications

- Main switchboard.
- Distribution panel.
- Emergency breaking.
- Network coupling.
- Local safety breaking.

Advantages

The LBS's double breaking per pole, achieved through its sliding bar contact system, is a proven design that offers very high durability and short-circuit withstand.

The position indicator is located directly on the sliding bar contact mechanism, ensuring it can be seen in all circumstances.

The use of glass fibre reinforced polyester gives the LBS high mechanical and thermal resistance.



LBS-S320/1600 (CO)



LBS-GC (CLBS-EH80, 125)



LBS-PS11



LBS-TS160 3P (CO)



LBS-TS1250 3P

Shaft for door interlocked handle

Type	Description	Code No.	For use with	Weight [g]	Packaging [pcs]
LBS-S200/630 (CO).../400 FLBS	Shaft, 200mm, 10x10mm	004661490	LBS-EH630A	160	1/25
LBS-S200/1600 (CO)	Shaft, 200mm, 15x12mm	004661491	LBS-EH1600A	360	1/25
LBS-S200/3200 (CO)	Shaft, 200mm, 15x15mm	004661492	LBS-EH3200A	350	1/10
LBS-S320/630 (CO).../400 FLBS	Shaft, 320mm, 10x10mm	004661493	LBS-EH630A	250	1/50
LBS-S320/1600 (CO)	Shaft, 320mm, 15x12mm	004661494	LBS-EH1600A	490	1/25
LBS-S320/3200 (CO)	Shaft, 320mm, 15x15mm	004661495	LBS-EH3200A	376	1/15
LBS-S500/630 (CO).../400 FLBS	Shaft, 500mm, 10x10mm	004661496	LBS-EH630A	390	1/20
LBS-S400/1600(CO)	Shaft, 400mm, 15x12mm	004661497	LBS-EH1600A	580	1/20
LBS-S450/3200(CO)	Shaft, 450mm, 15x15mm	004661498	LBS-EH3200A	971	1/20

15x12mm: one side with 12x12mm, second side with 15x15mm.

Guiding cone

Type	Description	Code No.	For use with	Weight [g]	Packaging [pcs]
LBS-GC (CLBS-EH125/01)	Guiding cone	004661489	LBS-EH630-3200	29	1/25

To guide the shaft extension into the external handle. This accessory enables the handle to engage the extension shaft with a misalignment of up to 15 mm. Required for shaft lengths over 320 mm.

Auxiliary contact

Type	I [A]	Description	Code No.	For use with	Weight [g]	Packaging [pcs]
LBS-PS11	16	Auxiliary contact (CO)	004661499	LBS 160-3200A	26	1/30

Pre-break and signalling of positions 0 and I. Connection to the control circuit 6.35 mm fast-on terminal. Electrical characteristics 30 000 operations. Only one auxiliary contact can be mounted to each switch body

Terminal shrouds (covers)

Type	Description	Code No.	For use with	Weight [g]	Packaging [pcs]
LBS-TS160 3P (CO)	Terminal shrouds, 3P	004661500	LBS 160A 3P	79	1/20
LBS-TS250 3P (CO)	Terminal shrouds, 3P	004661501	LBS 250A 3P	121	1/10
LBS-TS630 3P (CO)	Terminal shrouds, 3P	004661502	LBS 400-630A 3P	242	1/5
LBS-TS4P/160 (CO)	Terminal shrouds, 4P	004661506	LBS 160A 4P	100	1/15
LBS-TS4P/250 (CO)	Terminal shrouds, 4P	004661507	LBS 250A 4P	157	1/8
LBS-TS4P/630 (CO)	Terminal shrouds, 4P	004661508	LBS 400-630A 4P	311	1/4

Perforations allow remote thermographic inspection without the need to remove the shrouds.

The terminal shrouds also provide phase separation for LBS 160 to 630 A.

Terminal covers assure top and bottom protection against direct contact with terminals or connection parts.

One reference includes 3 pcs (3pole)/ 4 pcs (4pole) for top or bottom contacts , to protect all 2 references shall be ordered

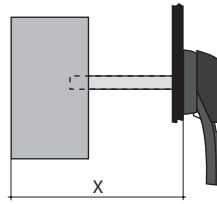
Terminal screen

Type	Description	Code No.	For use with	Weight [g]	Packaging [pcs]
LBS-TS1250 3P	Terminal screen, 3P	004661503	LBS 800-1250A 3P	127	1/25
LBS-TS1600 3P	Terminal screen, 3P	004661504	LBS 1600A 3P	163	1/20
LBS-TS3200 3P	Terminal screen, 3P	004661505	LBS 2000-3200A 3P	266	1/1
LBS-TS4P/1250	Terminal screen, 4P	004661509	LBS 800-1250A 4P	161	1/20
LBS-TS4P/1600	Terminal screen, 4P	004661510	LBS 1600A 4P	223	1/30
LBS-TS4P/3200	Terminal screen, 4P	004661511	LBS 2000-3200A 4P	350	1/1

Top or bottom, to protect all 2 references shall be ordered

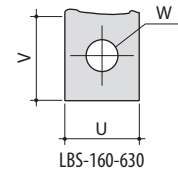
Technical data

Rating (A)	Dimension X (mm)	Shaft length (mm)
LBS 160	125 - 250	200
	125 - 370	320
	125 - 550	500
LBS 250	135 - 265	200
	135 - 385	320
	165 - 565	500
LBS 400-630	165 - 295	200
	165 - 415	320
	165 - 595	500
LBS 800-1600	221 - 343	200
	221 - 463	320
	221 - 543	400
LBS 2000-3200	415 - 570	200
	415 - 690	320
	415 - 820	450

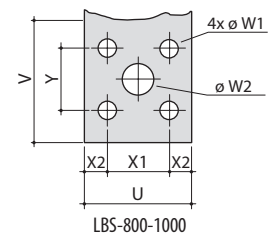


Rating (A)	U, (mm)	V, (mm)	W, (mm)
160	20	25	9
250	25	21.5	11
400	32	29	11
630	45	41.5	13

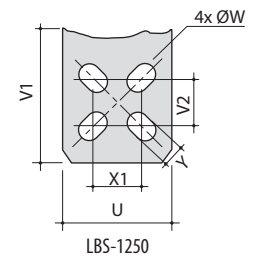
Connection terminal dimensions:



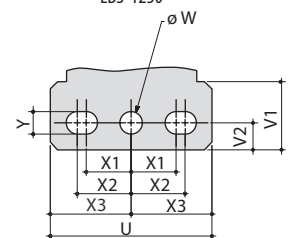
Rating (A)	U, (mm)	V, (mm)	W1, (mm)	W2, (mm)	X1, (mm)	X2, (mm)	Y, (mm)
800 - 1000	50	60.5	9	16	28.5	11	33



Rating (A)	U, (mm)	V1, (mm)	V2, (mm)	W, (mm)	X1, (mm)	Y, (mm)
1250	60	65	28.5	16	28.5	11



Rating (A)	U, (mm)	V1, (mm)	V2, (mm)	W, (mm)	X1, (mm)	X2, (mm)	X3, (mm)	Y, (mm)
1600-3200	90	35.8	15	12.5	25	30	45	12.5



LBS-PS11 Auxiliary contact (change over NO/NC)

Rating (A)	Contact type	Current nominal (A)	Operating current I _e (A)									
			230 V AC		400 V AC		24 V DC		48 V DC			
			AC-12	AC-13/15	AC-12	AC-13/15	DC-12	DC-13	DC-14	DC-12	DC-13	DC-14
160-3200	C0	16	16	4	12	3	2,5	2,5	1	2,5	1,2	0,2