Product note
Kabeldon fuse-switch disconnectors, 80 A to 400 A
SLD and SLD-FHD

Fuse-switch disconnectors with single-pole or three-pole breaking. Utilization category AC-23B according to IEC 60947-3. IP2X protection according to IEC 60529.

A. B. C. D. E. F. G.

No.	Product designation	Breaking	Number of modules
A.	SLD 63	3-pole	3
B.	SLD 000	3-pole	3
C.	SLD-FHD 000	1-pole	3
D.	SLD 00	3-pole	4
E.	SLD-FHD 00	1-pole	4
F.	SLD 1	3-pole	10
G.	SLD 2	3-pole	12

Design
Kabeldon SLD fuse-switch disconnectors are designed for high reliability. SLD meets the strength requirements of the European standard for use in cable cabinets, distribution boards, substations and compact secondary substations CSS.

- The cable connection is made to the integrated cable clamps at the very bottom of the devices. These are protected against accidental contact.
- Fuse replacement: NH fuses are released by pressing on the spring-loaded buttons on the side of the cover. Diazed fuses in SLD 63 are released by pulling the spring-loaded lever arm.
- SLD can be positioned in any order irrespective of the rated current.
- Installed and connected to the busbar system in the same operation.
- SLD can be connected live.
- Always non-live on fuse replacement.
- The width is based on a module system: 1 M=12.5 mm.
- Complete with clear symbols, lead sealing capability and lockable covers allowing visual inspection of fuses.

Cover
Opening angle 90° SLD 1–2 and SLD 63, 55° SLD 000 and SLD 00.
- The cover for SLD has a three-pole fuse-holder.
- For single-pole breaking, SLD-FHD 000 and SLD-FHD 00 are also available as accessories, comprising three separate fuse-holders with detachable handles.

Bolt connection
- The bolt connections on the rear of the device for simultaneous mechanical and electrical connection to the three phase busbars.
- The design allows visual inspection of the bolt connection position after assembly.

Voltage testing
All of the devices have apertures designed for voltage testers.

Busbar system
SLD fits Kabeldon phase busbar system with protection against accidental contact. The distance between the phase busbars is always 85 mm. Degree of protection is IP2X.

Electrical testing.

A few application examples.

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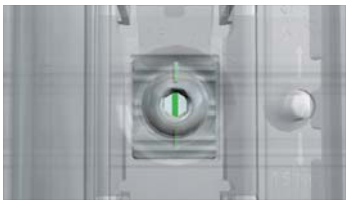
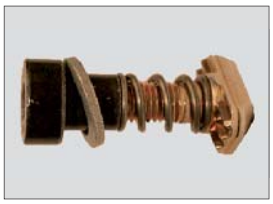
Measuring tap for voltage testing.

3-pole breaking is done by a distinct operation of the cover.



Visual inspection is possible.

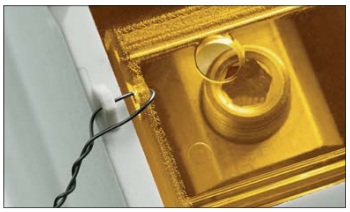


Bolt connection.

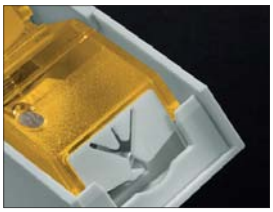
Sliding clamps.

Inspection window in the cover.

Lockable cover with possibility of visual inspection of cable connection.



Can be provided with a lead seal.



The finger protection ensures personal safety.

NH fuses are replaced by pressing spring-loaded buttons on the side of the cover.

Accessories

- The JDDA earthing device is available for all 3-pole sizes with NH fuses.
- The STM 400 busbar with connector for transformer measurement is available for SLD 1 and SLD 2.
- A handle for parallel operation of two devices is available for SLD 2.
- The FHHD-A detachable handle and adapter is available for SLD 000 and SLD 00. This allows the depth to be reduced by 3.5 mm.

Technical data

Switching devices with dependent manual operation, uninterrupted duty		SLD 63	SLD 000		SLD-FHD 000	SLD 00		SLD-FHD 00	SLD 1		SLD 2		
Rated operational voltage, U_e	V	400	400	690 [1]	230	400	690 [1]	230	400	690 [1]	400	690 [1]	1000 [1]
Rated insulation voltage, U_i	V	690	690		690	690		690	690		1000		
Rated impulse withstand voltage, U_{imp}	kV	8	8		8	8		8	8		8		
Rated operational current, I_e and rated thermal current, I_{th} [2]	A	63	100	80	100	160	160	160	250 400 [3]	250	400 600 [3]	355	100
Utilization category according to IEC 60947-3		AC-21B	AC-23B	AC-22B	AC-21B	AC-23B	AC-21B	AC-21B	AC-23B	AC-22B	AC-23B	AC-22B	AC-21B
Rated short-time withstand current, I_{cw}	kA_{rms}/s	–	6.1/1 [5]		–	6.1/1 [5]		–	16.2/1 [5]		16.2/1 [5]		
Rated peak withstand current, I_{pk}	kA_{peak}	–	10.9 [5]		–	10.9 [5]		–	34.4 [5]		34.4 [5]		
Rated fused short-circuit current, I_{cf}	kA_{rms}	30	50	30	30	50	30	30	50	50	50	50	30
	max A	63	100	80	100	160	160	160	250	250	400	355	100
Degree of protection according to IEC 60529		IP2X [4]	IP2X [4]		IP2X [4]	IP2X [4]		IP2X [4]	IP2X		IP2X		
Connectible conductor cross-section, Cu/Al	mm^2	1,5–25	2.5-95		2.5-95	2.5-95		2.5-95	50-300		50-300		

Remarks: 1) Only in dry environments. 2) Fuse with losses according to IEC 60269-2-1. 3) With linking knives. 4) IP1X on operation, depending on design dimensions of the fuse. 5) Tested with JDDA grounding device.

Tightening torques

Product	To phase busbar	Cable connection		
		2.5–35 mm^2	50–95 mm^2	120–300 mm^2
SLD 63	15 Nm	–	–	–
SLD 000, SLD 00	15 Nm	15 Nm	20 Nm	–
SLD-FHD 000, SLD-FHD 00	15 Nm	15 Nm	20 Nm	–
SLD 1, SLD 2	15 Nm	–	20 Nm	35 Nm

For further information, go to:
www.abb.se/kabeldon

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