

ABB SHD200 Switch disconnecter datasheet

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The SHD 200 extends the proven System pro M compact® series by a new range of switch disconnectors. The series is available with 1 to 4 poles with rated currents from 16 to 63 A and provides disconnection properties according to IEC/EN 60947-3.

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System pro M compact® Switch disconnecter SHD 200



2CDC061002S0012



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The SHD 200 extends the proven System pro M compact® series by a new range of switch disconnectors. The series is available with 1 to 4 poles with rated currents from 16 to 63 A and provides disconnection properties according to IEC/EN 60947-3.

A rated voltage of 240/415 V AC and a rated conditional short-circuit current of 10 kA enables a wide range of use.

The laser printing and the design of the devices allow a consistent optical appearance in the distribution board.

Special features

- Isolating characteristics acc. to IEC/EN 60947-3
- Protection degree IP20 = finger safe
- 25 mm² cage terminal
- Consistent design to all other System pro M DIN rail products
- Cross wiring with MCBs or RCDs using busbars PS
- Durable device identification due to laser labeling
- Captive screws with recessed head
- Locking device as accessory for unauthorized ON/OFF switching
- Approved acc. to IEC/EN 60947-3 for international use

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Switch disconnecter SHD 200

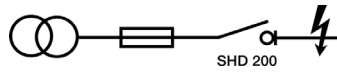
Technical data

Electrical data	
Standards	IEC/EN 60947-3
Poles	1P, 2P, 3P, 4P
Rated current I_n	16 A, 25 A, 32 A, 40 A, 50 A, 63 A
Utilization category	AC-22A, DC-21A
Rated voltage U_n	1P: 240 V AC, 60 V DC 2P: 415 V AC, 125 V DC 3...4P: 415 V AC
Insulation voltage U_i	440 V AC
Max. power frequency recovery voltage U_{max}	1P: 252 V AC, 63 V DC 2P: 436 V AC, 131 V DC 3...4P: 436 V AC
Min. operating voltage U_{Bmin}	12 V AC
Rated frequency f	50/60 Hz, DC
Suitable for isolation	Yes
Rated conditional short-circuit current	10 kA in series with NH 00 \leq 63 A gG
Overvoltage category	III
Pollution degree	3
Rated impulse withstand voltage U_{imp} (1.2/50 μ s)	4 kV (test voltage 6.2 kV at sea level; 5 kV at 2,000 m)
Dielectric test voltage	2 kV (50/60 Hz, 1 min.)
Mechanical data	
Housing	Insulation group II, RAL 7035
Toggle	Insulation group II, red, sealable
Contact position indication	Marking on toggle, I ON / 0 OFF
Protection degree acc. to EN 60529	IP20 / IP40 in enclosure with cover
Electrical endurance	$I_n < 32$ A: 20,000 ops. (AC), 1,500 ops. (DC) $I_n \geq 32$ A: 10,000 ops. (AC), 1,500 ops. (DC)
Mechanical endurance	20,000 ops.
Shock resistance acc. to IEC/EN 60068-2-27	25 g, 2 shocks, 13 ms
Vibration resistance acc. to IEC/EN 60068-2-6	5g, 20 cycles at 5...150...5 Hz with load 0.8 I _n
Environmental conditions (damp heat cyclic) acc. to EC/EN 60068-2-30	28 cycles with 55°C/90-96% and 25°C/95-100% [°C/RH]
Ambient temperature	-25 ... +55 °C
Storage temperature	-40 ... +70 °C
Installation	
Terminal	Cage terminal
Safety wire guard	No
Two terminal openings for conductor and busbar	No
Cross-section of conductors	25 mm ²
Torque	2.0 Nm
Screwdriver	No. 2 Pozidrive
Mounting	On DIN rail 35 mm acc. to EN 60715 by fast clip
Mounting position	Optional
Removal without disassembling of the busbar	No
Supply	Optional
Dimensions and weight	
Mounting dimensions acc. to DIN 43880	Mounting dimension 1
Pole dimensions (H x D x W)	85 x 69 x 17.5 mm
Pole weight	approx. 75 g
Combination with auxiliary elements	
Auxiliary contact	No
Signal/auxiliary contact	No
Shunt trip	No
Undervoltage release	No
Motor operating device	No
Padlock	Yes
Approvals	
	CE and RoHS conform
	Approvals: VDE

Switch disconnecter SHD 200

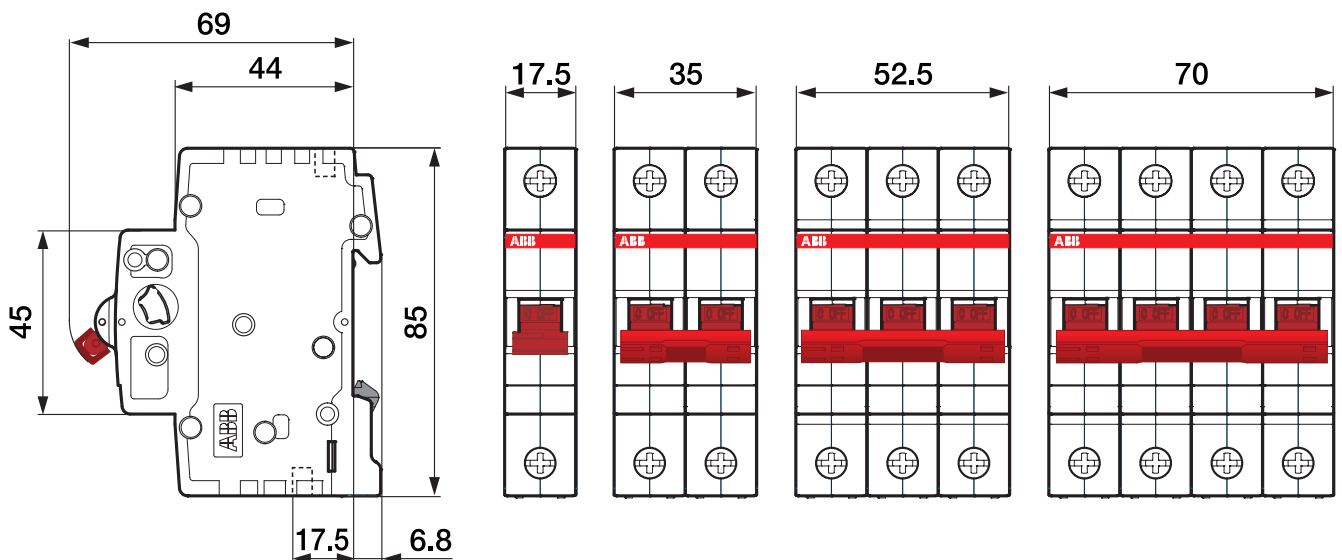
Conditional short-circuit resistance, dimensional drawing and wiring diagrams

Conditional short-circuit resistance (in kA) in combination with back-up protection



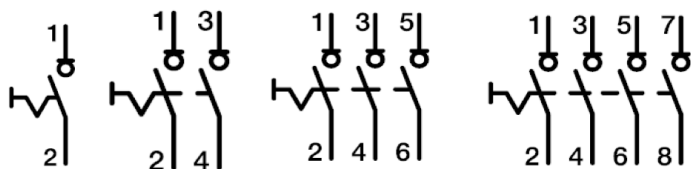
		Supply side: NH 00 – gG					
Load side:	I_n (A)	16	25	32	40	50	63
SHD 200	16	10					
	25	10	10				
	32	10	10	10			
	40	10	10	10	10		
	50	10	10	10	10	10	
	63	10	10	10	10	10	10

Dimensional drawing



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Wiring diagrams

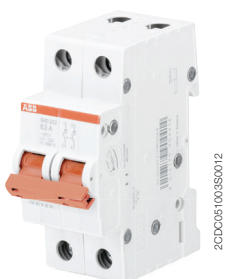


Switch disconnecter SHD 200

Ordering data



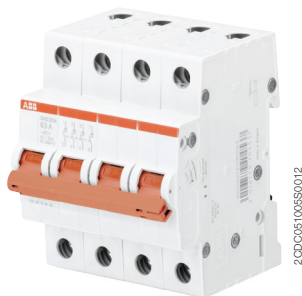
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Rated current: 16 A

Poles	Rated voltage V AC	Bbn 4016779 EAN	Type	Order code	Weight 1 piece kg	Pack unit pc.
1	240	904308	SHD201/16	2CDD271111R0016	0.075	10
2	415	904360	SHD202/16	2CDD272111R0016	0.150	5
3	415	904421	SHD203/16	2CDD273111R0016	0.225	1
4	415	904483	SHD204/16	2CDD274111R0016	0.300	1

Rated current: 25 A

Poles	Rated voltage V AC	Bbn 4016779 EAN	Type	Order code	Weight 1 piece kg	Pack unit pc.
1	240	904315	SHD201/25	2CDD271111R0025	0.075	10
2	415	904377	SHD202/25	2CDD272111R0025	0.150	5
3	415	904438	SHD203/25	2CDD273111R0025	0.225	1
4	415	904490	SHD204/25	2CDD274111R0025	0.300	1

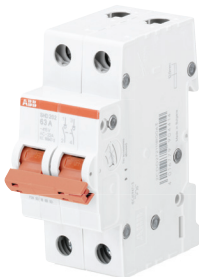
Rated current: 32 A

Poles	Rated voltage V AC	Bbn 4016779 EAN	Type	Order code	Weight 1 piece kg	Pack unit pc.
1	240	904322	SHD201/32	2CDD271111R0032	0.075	10
2	415	904384	SHD202/32	2CDD272111R0032	0.150	5
3	415	904445	SHD203/32	2CDD273111R0032	0.225	1
4	415	904506	SHD204/32	2CDD274111R0032	0.300	1



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Rated current: 40 A

Poles	Rated voltage V AC	Bbn 4016779 EAN	Type	Order code	Weight 1 piece kg	Pack unit pc.
1	240	904339	SHD201/40	2CDD271111R0040	0.075	10
2	415	904391	SHD202/40	2CDD272111R0040	0.150	5
3	415	904452	SHD203/40	2CDD273111R0040	0.225	1
4	415	904513	SHD204/40	2CDD274111R0040	0.300	1

Rated current: 50 A

Poles	Rated voltage V AC	Bbn 4016779 EAN	Type	Order code	Weight 1 piece kg	Pack unit pc.
1	240	904346	SHD201/50	2CDD271111R0050	0.075	10
2	415	904407	SHD202/50	2CDD272111R0050	0.150	5
3	415	904469	SHD203/50	2CDD273111R0050	0.225	1
4	415	904520	SHD204/50	2CDD274111R0050	0.300	1

Rated current: 63 A

Poles	Rated voltage V AC	Bbn 4016779 EAN	Type	Order code	Weight 1 piece kg	Pack unit pc.
1	240	904353	SHD201/63	2CDD271111R0063	0.075	10
2	415	904414	SHD202/63	2CDD272111R0063	0.150	5
3	415	904476	SHD203/63	2CDD273111R0063	0.225	1
4	415	904537	SHD204/63	2CDD274111R0063	0.300	1

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Order number 2CDC 441 016 D0201 (05/13-pdff)

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