

Technical Features Table for miniature circuit-breakers SH 200 Series

1

General Data	
Standards	
Poles	
Tripping Characteristics	
Rated Current I_n	A
Rated frequency f	Hz
Rated insulation voltage U_i acc. To IEC/EN 60664-1	V
Overvoltage category	
Pollution degree	
Data acc. to IEC/EN 60898-1	
Rated operational voltage U_n	V
Max. power frequency recovery voltage (U_{max})	V
Min. operating voltage	V
Rated short-circuit capacity I_{on}	kA
Energy limiting class (B, C up to 40 A)	
Rated impulse withstand voltage U_{imp} (1.2/50 μ s)	kV
Dielectric test voltage	kV
Reference temperature for tripping characteristics	°C
Electrical endurance	ops.
Mechanical Data	
Housing	
Toggle	
Contact position indication	
Protection degree acc. To EN 60529	
Mechanical endurance	ops.
Shock resistance acc. To IEC/EN 60068-2-27	
Vibration resistance acc. To IEC/EN 60068-2-6	
Environmental conditions (damp heat cyclic) acc. To IEC/EN 60068-2-30	°C/RH
Ambient temperature	°C
Storage temperature	°C
Installation	
Terminal	
Cross-section of conductors (top/bottom)	mm ²
Torque	Nm
Screwdriver	
Mounting	
Mounting position	
Supply	
Dimension and weight	
Mounting dimensions acc. To DIN 43880	
Pole dimensions (H x D x W)	mm ²
Pole weight	g
Combinations with aux. elements	
Accessories mountable	

Technical Features Table for miniature circuit-breakers SH 200 Series



SH 200	SH 200 L
IEC/EN 60898-1	
1P, 2P, 3P, 4P, 1P+N, 3P+N	
B, C	
6...40 A	
50 / 60 Hz	
250 V AC (phase to ground), 440 V AC (phase to phase)	
III	
2	
1P: 230/440 V AC, 1P+N: 230, 2P...4P: 400 V AC, 3P+N: 400 V AC	
1P: 253 V AC, 1P+N: 253 V AC, 2P...4P: 440 V AC, 3P+N: 440 V AC	
12 V AC - 12 V DC	
6 kA	4.5 kA
3	
4 kV (test voltage 6.2 kV at sea level, 5 kV at 2,000m)	
2 kV (50 / 60 Hz, 1 min.)	
B, C : 30 °C	
$I_n < 32 \text{ A}$: 20,000 ops (AC), $I_n \geq 32 \text{ A}$: 10,000 ops. (AC); 1,000 ops. (DC); 1 cycle (2s-ON, 13s - OFF, $I_n \leq 32 \text{ A}$), 1 cycle (2s - ON, 28s - OFF, $I_n > 32 \text{ A}$)	
Insulation group II, RAL 7035	
Insulation group II, black, sealable	
Marking on toggle (I ON / 0 OFF)	
IP20*, IP40 in enclosure with cover	
20,000 ops.	
25 g - 3 shocks - 11 ms	
5g - 20 cycles at 5...150...5 Hz with load 0.8 I_n	
28 cycles with 55 °C/90-96% and 25 °C/95-100%	
-25 ... +55 °C	
-40 ... +70 °C	
Cage Terminal	
25 mm ² / 25 mm ²	
2.0 Nm	
No. 2 Pozidrive	
On DIN rail 35 mm acc. to EN 60715 by fast clip	
any	
optional	
Mounting dimension 1	
85 x 69 x 17.4 mm	
ca. 115 g	
No	

SH 200 L - B Characteristic

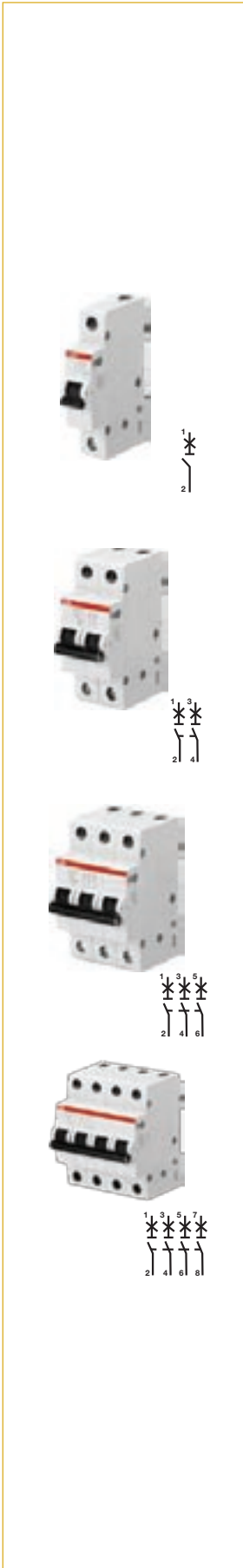
Standard : IEC/EN 60898

I_{cn} = 4.5kA

Voltage range:

1P : 230V ~ 240VAC - 50/60Hz

2P, 3P & 4P : 230V ~ 440VAC - 50/60Hz



No. of poles	Rated Current (A)	Model	Order Code	Packing unit pc.	
1	6	SH201L-B6	2CDS 241 001 R0065	10	
	10	SH201L-B10	2CDS 241 001 R0105	10	
	16	SH201L-B16	2CDS 241 001 R0165	10	
	20	SH201L-B20	2CDS 241 001 R0205	10	
	U _{Bmax}	25	SH201L-B25	2CDS 241 001 R0255	10
	440V ~	32	SH201L-B32	2CDS 241 001 R0325	10
	60 V ̸	40	SH201L-B40	2CDS 241 001 R0405	10
2	6	SH202L-B6	2CDS 242 001 R0065	5	
	10	SH202L-B10	2CDS 242 001 R0105	5	
	16	SH202L-B16	2CDS 242 001 R0165	5	
	20	SH202L-B20	2CDS 242 001 R0205	5	
	U _{Bmax}	25	SH202L-B25	2CDS 242 001 R0255	5
	440V ~	32	SH202L-B32	2CDS 242 001 R0325	5
	125 V ̸	40	SH202L-B40	2CDS 242 001 R0405	5
3	6	SH203L-B6	2CDS 243 001 R0065	1	
	10	SH203L-B10	2CDS 243 001 R0105	1	
	16	SH203L-B16	2CDS 243 001 R0165	1	
	20	SH203L-B20	2CDS 243 001 R0205	1	
	U _{Bmax}	25	SH203L-B25	2CDS 243 001 R0255	1
	440V ~	32	SH203L-B32	2CDS 243 001 R0325	1
	40	SH203L-B40	2CDS 243 001 R0405	1	
4	6	SH204L-B6	2CDS 244 001 R0065	1	
	10	SH204L-B10	2CDS 244 001 R0105	1	
	16	SH204L-B16	2CDS 244 001 R0165	1	
	20	SH204L-B20	2CDS 244 001 R0205	1	
	U _{Bmax}	25	SH204L-B25	2CDS 244 001 R0255	1
	440V ~	32	SH204L-B32	2CDS 244 001 R0325	1
	125 V ̸	40	SH204L-B40	2CDS 244 001 R0405	1

SH 200 L - C Characteristic

Standard : IEC/EN 60898

Icn = 4.5kA

Voltage range:

1P : 230V ~ 240VAC - 50/60Hz

2P, 3P & 4P : 230V ~ 440VAC - 50/60Hz

No. of poles	Rated Current (A)	Model	Order Code	Packing unit pc.	
1	6	SH201L-C6	2CDS 241 001 R0064	10	
	10	SH201L-C10	2CDS 241 001 R0104	10	
	16	SH201L-C16	2CDS 241 001 R0164	10	
	20	SH201L-C20	2CDS 241 001 R0204	10	
	U _{Bmax}	25	SH201L-C25	2CDS 241 001 R0254	10
	440V ~ 60 V ̸	32	SH201L-C32	2CDS 241 001 R0324	10
	40	SH201L-C40	2CDS 241 001 R0404	10	
2	6	SH202L-C6	2CDS 242 001 R0064	5	
	10	SH202L-C10	2CDS 242 001 R0104	5	
	16	SH202L-C16	2CDS 242 001 R0164	5	
	20	SH202L-C20	2CDS 242 001 R0204	5	
	U _{Bmax}	25	SH202L-C25	2CDS 242 001 R0254	5
	440V ~ 125 V ̸	32	SH202L-C32	2CDS 242 001 R0324	5
	40	SH202L-C40	2CDS 242 001 R0404	5	
3	6	SH203L-C6	2CDS 243 001 R0064	1	
	10	SH203L-C10	2CDS 243 001 R0104	1	
	16	SH203L-C16	2CDS 243 001 R0164	1	
	20	SH203L-C20	2CDS 243 001 R0204	1	
	U _{Bmax}	25	SH203L-C25	2CDS 243 001 R0254	1
	440V ~	32	SH203L-C32	2CDS 243 001 R0324	1
	40	SH203L-C40	2CDS 243 001 R0404	1	
4	6	SH204L-C6	2CDS 244 001 R0064	1	
	10	SH204L-C10	2CDS 244 001 R0104	1	
	16	SH204L-C16	2CDS 244 001 R0164	1	
	20	SH204L-C20	2CDS 244 001 R0204	1	
	U _{Bmax}	25	SH204L-C25	2CDS 244 001 R0254	1
	440V ~ 125 V ̸	32	SH204L-C32	2CDS 244 001 R0324	1
	40	SH204L-C40	2CDS 244 001 R0404	1	



SH 200 - B Characteristic

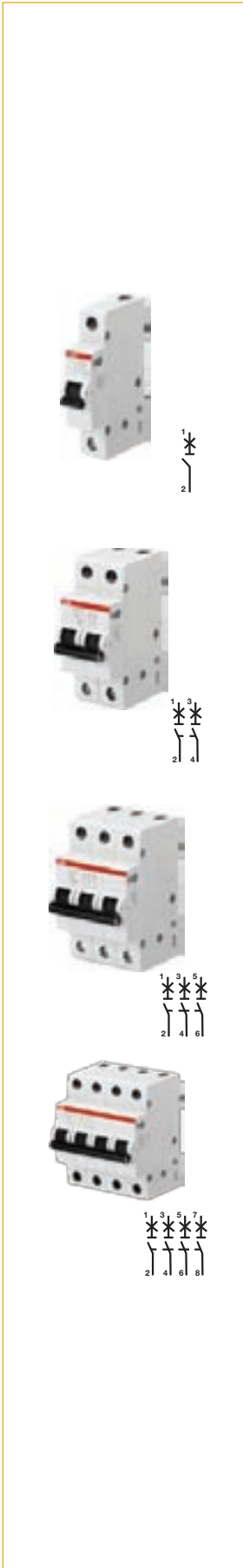
Standard : IEC/EN 60898

Icn = 6kA

Voltage range:

1P : 230V ~ 240VAC - 50/60Hz

2P, 3P & 4P : 230V ~ 440VAC - 50/60Hz



No. of poles	Rated Current (A)	Model	Order Code	Packing unit pc.	
1	6	SH201-B6	2CDS 211 001 R0065	10	
	10	SH201-B10	2CDS 211 001 R0105	10	
	16	SH201-B16	2CDS 211 001 R0165	10	
	20	SH201-B20	2CDS 211 001 R0205	10	
	U _{Bmax}	25	SH201-B25	2CDS 211 001 R0255	10
	440V ~	32	SH201-B32	2CDS 211 001 R0325	10
	60 V ̸	40	SH201-B40	2CDS 211 001 R0405	10
2	6	SH202-B6	2CDS 212 001 R0065	5	
	10	SH202-B10	2CDS 212 001 R0105	5	
	16	SH202-B16	2CDS 212 001 R0165	5	
	20	SH202-B20	2CDS 212 001 R0205	5	
	U _{Bmax}	25	SH202-B25	2CDS 212 001 R0255	5
	440V ~	32	SH202-B32	2CDS 212 001 R0325	5
	125 V ̸	40	SH202-B40	2CDS 212 001 R0405	5
3	6	SH203-B6	2CDS 213 001 R0065	1	
	10	SH203-B10	2CDS 213 001 R0105	1	
	16	SH203-B16	2CDS 213 001 R0165	1	
	20	SH203-B20	2CDS 213 001 R0205	1	
	U _{Bmax}	25	SH203-B25	2CDS 213 001 R0255	1
	440V ~	32	SH203-B32	2CDS 213 001 R0325	1
		40	SH203-B40	2CDS 213 001 R0405	1
4	6	SH204-B6	2CDS 214 001 R0065	1	
	10	SH204-B10	2CDS 214 001 R0105	1	
	16	SH204-B16	2CDS 214 001 R0165	1	
	20	SH204-B20	2CDS 214 001 R0205	1	
	U _{Bmax}	25	SH204-B25	2CDS 214 001 R0255	1
	440V ~	32	SH204-B32	2CDS 214 001 R0325	1
	125 V ̸	40	SH204-B40	2CDS 214 001 R0405	1

SH 200 - C Characteristic

Standard : IEC/EN 60898

Icn = 6kA

Voltage range:

1P : 230V ~ 240VAC - 50/60Hz

2P, 3P & 4P : 230V ~ 440VAC - 50/60Hz

No. of poles	Rated Current (A)	Model	Order Code	Packing unit pc.	
1	6	SH201-C6	2CDS 211 001 R0064	10	
	10	SH201-C10	2CDS 211 001 R0104	10	
	16	SH201-C16	2CDS 211 001 R0164	10	
	20	SH201-C20	2CDS 211 001 R0204	10	
	U _{Bmax}	25	SH201-C25	2CDS 211 001 R0254	10
	440V ~ 60 V ̸	32	SH201-C32	2CDS 211 001 R0324	10
	40	SH201-C40	2CDS 211 001 R0404	10	
2	6	SH202-C6	2CDS 212 001 R0064	5	
	10	SH202-C10	2CDS 212 001 R0104	5	
	16	SH202-C16	2CDS 212 001 R0164	5	
	20	SH202-C20	2CDS 212 001 R0204	5	
	U _{Bmax}	25	SH202-C25	2CDS 212 001 R0254	5
	440V ~ 125 V ̸	32	SH202-C32	2CDS 212 001 R0324	5
	40	SH202-C40	2CDS 212 001 R0404	5	
3	6	SH203-C6	2CDS 213 001 R0064	1	
	10	SH203-C10	2CDS 213 001 R0104	1	
	16	SH203-C16	2CDS 213 001 R0164	1	
	20	SH203-C20	2CDS 213 001 R0204	1	
	U _{Bmax}	25	SH203-C25	2CDS 213 001 R0254	1
	440V ~	32	SH203-C32	2CDS 213 001 R0324	1
	40	SH203-C40	2CDS 213 001 R0404	1	
4	6	SH204-C6	2CDS 214 001 R0064	1	
	10	SH204-C10	2CDS 214 001 R0104	1	
	16	SH204-C16	2CDS 214 001 R0164	1	
	20	SH204-C20	2CDS 214 001 R0204	1	
	U _{Bmax}	25	SH204-C25	2CDS 214 001 R0254	1
	440V ~ 125 V ̸	32	SH204-C32	2CDS 214 001 R0324	1
	40	SH204-C40	2CDS 214 001 R0404	1	

