

Technical features table for miniature circuit-breakers SH 200 Series

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	SH 200	SH 200 L	SH 200 T
Standards			IEC/EN 60898-1
Poles			1P, 2P, 3P, 4P, 1P+N, 3P+N
Tripping characteristics			B, C
Rated current I_n	A	6...40 A	
Rated frequency f	Hz	50 / 60 Hz	
Rated insulation voltage U_i acc. to IEC/EN 60894-1	V	250 V AC (phase to ground), 440 V AC (phase to phase)	
Overvoltage category		III	
Pollution degree		2	
IEC/EN 60898-1			
Rated operational voltage U_e	V	1P: 230/400 V AC; 1P+N: 230 V AC; 2...4P: 400 V AC; 3P+N: 400 V AC	
Max. power frequency recovery voltage (U_{pr})	V	1P: 253 V AC; 1P+N: 253 V AC; 2...4P: 440 V AC; 3P+N: 440 V AC	
Min. operating voltage	V	12 V AC	
Rated short-circuit capacity I_{cs}	KA	6 kA	4.5 kA
Energy limiting class (B, C up to 40 A)		3	
Rated impulse withstand voltage U_{imp} (1.2/50µs)	kV	4 kV (test voltage: 6.2kV at sea level, 5kV at 2,000m)	
Dielectric test voltage	kV	2 kV (50 / 60Hz, 1 min.)	
Reference temperature for tripping characteristics	°C	B, C: 30°C	
Electrical endurance	ops.	I _n < 32A: 20,000 ops (AC); I _n ≥ 32A: 10,000 ops (AC); 1,000 ops (DC); 1 cycle (2s - ON, 10s - OFF, I _n < 32A); 1 cycle (2s - ON, 20s - OFF, I _n > 32A)	
Mechanical Data			
Housing			Insulation group II, IAL 7035
Toggle			Insulation group II, black, sealable
Contact position indicator			Marking on toggle (ON / 0 OFF)
Protection degree acc. to EN 60529			IP20*, IP40 in enclosure with cover
Mechanical endurance	ops.		20,000 ops.
Shock resistance acc. to IEC/EN 60068-2-27			25 g - 2 shocks - 10 ms
Vibration resistance acc. to IEC/EN 60068-2-8			5g - 20 cycles at 5...150...5 Hz with load 0.5 I _n
Environmental conditions (deep heat cycle) acc. to IEC/EN 60068-2-30	°C/HR		28 cycles with 55°C/90-95% and 25°C/95-100%
Ambient temperature	°C		-25 ... +55°C
Storage temperature	°C		-40 ... +10°C
Installation			
Terminal			Cage Terminal
Cross-section of conductors (top / bottom)	mm ²		25 mm ² / 25 mm ²
Torque	Nm		2.0 Nm
Screwdriver			No. 2 Pozidriv
Mounting			On DIN-Rail 35 mm acc. to EN 60715 by fast clip
Mounting position			any
Supply			optional
Dimensions and weight			
Mounting dimension acc. to DIN 43620			Mounting dimension 1
Pole dimension (H x D x W)	mm		85 x 69 x 17.5 mm
Pole weight	g		ca. 115 g
Compliance with max. elements			
Accessories available			No

* See fitting instructions for the protection degree IP20