

# MCB - SH200

## Technical Data

			SH200 T	SH200 L	SH200
<b>Electrical features</b>					
Standards			IEC/EN 60898, GB10963.1		
Rated current $I_n$		A	6 - 40		6 - 63
Poles			1, 2, 3, 4, 1+NA, 3+NA		
Rated Voltage $U_e$		IEC 1P, 1P+N	V 230		
		IEC 2P, 3P, 3P+N, 4P	V 230/400		
Insulation voltage $U_i$		V	250		
Max. operating voltage $U_b$ max.		IEC AC	V 254/440		
Min. operating voltage $U_b$ min.		V	12 V AC - 12 V DC		
Rated frequency		Hz	50...60		
Rated breaking capacity ultimate $I_{cn}$		IEC/EN 60898	A	3000	4500 6000
Rated impulse withstand voltage (1.2 / 50) $U_{imp}$		kV	4 (test voltage 6.2 at sea level, 5 at 2000 m)		
Dielectric strength at power freq. for 1 min.		kV	2.5		
Overvoltage category			III		
Pollution degree			2		
Thermomagnetic release characteristic		B: $3 I_n \leq I_m \leq 5 I_n$ C: $5 I_n \leq I_m \leq 10 I_n$ D: $10 I_n \leq I_m \leq 20 I_n$	• •		• • •
<b>Mechanical features</b>					
Toggle			black sealable in ON-OFF position		
Electrical life			10000		
Mechanical life / operations			20000		
Protections degree / operations		housing terminals	IP4X IP2X		
Mechanical shock resistance			30 g - 2 shocks - duration 11 ms		
Resistance to vibrations acc. to IEC/EN 60060-2--6			5g - 20 cycles at frequency 5...150...5 Hz with 0.8 x $I_n$		
Tropicalization ( acc. to IEC/EN 60068-2 )		humid heat	°C /RH	28 cycles with 55/95...100	
		constant climatic conditions	°C /RH	23/28 - 40/93 - 55/20	
		variable climatic conditions	°C /RH	25/95 - 40/95	
Reference temperature for setting of thermal element		°C	30		
Ambient temperature (with daily averages $\leq +35^\circ\text{C}$ ) IEC		°C	-25...+55		
Storage temperature		°C	-40...+70		
<b>Installation</b>					
Terminal type			cage terminal		
Terminal size top / bottom for cable		IEC	mm <sup>2</sup>	25/25	
Tightening torque		IEC	N*m	2.5	
Tool			Nr. 2 Pozidriv		
Mounting			on DIN rail EN 60715 (35 mm) by means of fast clip device		
Mounting position			optional		
Connection			from top and bottom		
<b>Dimensions and weight</b>					
Pole dimensions (H x D x W)		mm	85 x 68 x 17.5		
Pole weight		g	125		

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## Selection Tables

**Applications:** buildings, both residential and commercial

**C characteristic:** protection and control of the circuits against overloads and short-circuits; protection for resistive and inductive loads with low inrush current.

Type No.	Rated Current I <sub>n</sub> (A)	Breaking capacity I <sub>cn</sub> (kA)	Order Code	Weight (kg/pc)	Packing (pc)
<b>1P ( U<sub>Bmax</sub> : 230 V~ 60 V<sub>...</sub> )</b>					
SH201 C6	6	6	2CDS 211 001 R0064	0.125	12
SH201 C8	8		2CDS 211 001 R0084		
SH201 C10	10		2CDS 211 001 R0104		
SH201 C13	13		2CDS 211 001 R0134		
SH201 C16	16		2CDS 211 001 R0164		
SH201 C20	20		2CDS 211 001 R0204		
SH201 C25	25		2CDS 211 001 R0254		
SH201 C32	32		2CDS 211 001 R0324		
SH201 C40	40		2CDS 211 001 R0404		
SH201 C50	50		2CDS 211 001 R0504		
SH201 C63	63		2CDS 211 001 R0634		
<b>1P + NA ( U<sub>Bmax</sub> : 230 V~ 60 V<sub>...</sub> )</b>					
SH201 C6NA	6	6	2CDS 211 103 R0064	0.25	6
SH201 C8NA	8		2CDS 211 103 R0084		
SH201 C10NA	10		2CDS 211 103 R0104		
SH201 C13NA	13		2CDS 211 103 R0134		
SH201 C16NA	16		2CDS 211 103 R0164		
SH201 C20NA	20		2CDS 211 103 R0204		
SH201 C25NA	25		2CDS 211 103 R0254		
SH201 C32NA	32		2CDS 211 103 R0324		
SH201 C40NA	40		2CDS 211 103 R0404		
SH201 C50NA	50		2CDS 211 103 R0504		
SH201 C63NA	63		2CDS 211 103 R0634		
<b>2P ( U<sub>Bmax</sub> : 440 V~ 125 V<sub>...</sub> with 2 poles connected in series )</b>					
SH202 C6	6	6	2CDS 212 001 R0064	0.25	6
SH202 C8	8		2CDS 212 001 R0084		
SH202 C10	10		2CDS 212 001 R0104		
SH202 C13	13		2CDS 212 001 R0134		
SH202 C16	16		2CDS 212 001 R0164		
SH202 C20	20		2CDS 212 001 R0204		
SH202 C25	25		2CDS 212 001 R0254		
SH202 C32	32		2CDS 212 001 R0324		
SH202 C40	40		2CDS 212 001 R0404		
SH202 C50	50		2CDS 212 001 R0504		
SH202 C63	63		2CDS 212 001 R0634		
<b>3P ( U<sub>Bmax</sub> : 440 V~ )</b>					
SH203 C6	6	6	2CDS 213 001 R0064	0.375	4
SH203 C8	8		2CDS 213 001 R0084		
SH203 C10	10		2CDS 213 001 R0104		
SH203 C13	13		2CDS 213 001 R0134		
SH203 C16	16		2CDS 213 001 R0164		
SH203 C20	20		2CDS 213 001 R0204		
SH203 C25	25		2CDS 213 001 R0254		
SH203 C32	32		2CDS 213 001 R0324		
SH203 C40	40		2CDS 213 001 R0404		
SH203 C50	50		2CDS 213 001 R0504		
SH203 C63	63		2CDS 213 001 R0634		

