

<b>General Data</b>	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	
<b>Data acc. to IEC/EN 60898-1</b>	Pollution degree	
	Rated operational voltage $U_n$	V
	Max. power frequency recovery voltage ( $U_{max}$ )	V
	Min. operating voltage	V
	Rated short-circuit capacity $I_{cn}$	kA
	Energy limiting class (B, C up to 40 A)	
	Rated impulse withstand voltage $U_{imp.}$ (1.2/50 $\mu$ s)	kV
	Dielectric test voltage	kV
<b>Data acc. to IEC/EN 60947-2</b>	Reference temperature for tripping characteristics	°C
	Electrical endurance	ops.
	Rated operational voltage $U_g$	V
	Max. power frequency recovery voltage ( $U_{max}$ )	V
	Min. operating voltage	V
	Rated ultimate short-circuit breaking capacity $I_{cu}$	kA
	Rated service short-circuit breaking capacity $I_{cs}$	kA
	Rated impulse withstand voltage $U_{imp.}$ (1.2/50 $\mu$ s)	kV
<b>Data acc. to UL / CSA</b>	Dielectric test voltage	kV
	Reference temperature for tripping characteristics	°C
	Electrical endurance	ops.
	Rated voltage	V
	Rated interrupting capacity acc. to UL 1077	kA
	Short-circuit current rating acc. to UL 489	kA
	Application	
<b>Mechanical data</b>	Reference temperature for tripping characteristics	°C
	Electrical endurance	ops.
	Housing	
	Toggle	
	Contact position indication	
	Protection degree acc. to IEC/EN 60529	
	Mechanical endurance	ops.
	Shock resistance	
<b>Installation</b>	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
	Terminal	
<b>Dimensions and weight</b>	Cross-section of conductors (top / bottom)	mm <sup>2</sup> AWG
	Cross-section of busbars (top / bottom)	mm <sup>2</sup> AWG
	Torque	Nm in-lbs.
	Screwdriver	
	Mounting	
	Mounting position	
	Supply	
<b>Combination with aux. elements</b>	Mounting dimensions acc. to DIN 43880	
	Pole dimensions (H x D x W)	mm
	Pole weight	g
<b>Combination with aux. elements</b>	Auxiliary contact	
	Signal contact/auxiliary switch	
	Shunt trip	
	Undervoltage release	
	Motor operating device	

Note: Definitions acc. to standards on page 2/4 and 2/5

# System Technical features

## pro M compact® MCBs S 200 series

# S 200



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S 200	S 200 M	S 200 P	S 200 U	S 200 UP	S 200 UDC
IEC/EN 60898-1, IEC/EN 60947-2 UL 1077, CSA 22.2 No. 235	IEC/EN 60898-1, IEC/EN 60947-2 -	IEC/EN 60898-1, IEC/EN 60947-2 UL 1077, CSA 22.2 No. 235	IEC/EN 60947-2 UL 489, CSA 22.2 No.5		- UL 489, CSA 22.2 No. 5
	1P, 2P, 3P, 4P, 1P+N, 3P+N B, C, D, K, Z		1P, 2P, 3P, 4P	K, Z	1P, 2P
0.5...63 A		0.2...63 A 50 / 60 Hz	0.2...63 A	0.2...25 A	1...63 A DC
250 V AC (phase to ground), 500 V AC (phase to phase)					
III 3					
1P: 230/400 V AC; 1P+N: 230 V AC; 2...4P: 400 V AC; 3P+N: 400 V AC 1P: 253 V AC; 1P+N: 253 V AC; 2P: 440 V AC; 3...4P: 440 V AC; 3P+N: 440 V AC; 1P: 72 V DC; 2P: 125 V DC 12 V AC - 12 V DC					
6 kA	10 kA	≤ 25 A: 25 kA > 25 A: 15 kA			
4 kV (test voltage 6.2kV at sea level, 5kV at 2,000m) 2 kV (50 / 60Hz, 1 min.) B, C, D: 30°C					
In < 32A: 20,000 ops. (AC), In ≥ 32A: 10,000 ops. (AC); 1,000 ops. (DC); 1 cycle (2s - ON, 13s - OFF, In ≤ 32A), 1 cycle (2s - ON, 28s - OFF, In > 32A) 1P: 230 V AC; 1P+N: 230 V AC; 2...4P: 400 V AC; 3P+N: 400 V AC					
1P: 253 V AC; 1P+N: 253 V AC; 2P: 440 V AC; 3...4P: 440 V AC; 3P+N: 440 V AC; 1P: 72 V DC; 2P: 125 V DC 12 V AC - 12 V DC			1P: 230 V AC; 2...4P: 400 V AC		
10 kA	≤ 40 A: 15 kA 50, 63 A: 10 kA	≤ 25 A: 25 kA ≥ 32 A: 15 kA	1P: 253/440 V AC; 2...4P: 440 V AC 12 V AC		
7.5 kA	≤ 40 A: 11.2 kA 50, 63 A: 7.5 kA	≤ 25 A: 12.5 kA ≤ 32...40 A: 11.2 kA 50, 63 A: 7.5 kA	10 kA		
4 kV (test voltage 6.2 kV at sea level, 5 kV at 2,000 m) 2 kV (50 / 60Hz, 1 min.)					
B, C, D: 55°C; K, Z: 20 °C			K, Z: 20 °C		
In < 32A: 20,000 ops. (AC), In ≥ 32A: 10,000 ops. (AC); 1,000 ops. (DC); 1 cycle (2s - ON, 13s - OFF, In ≤ 32A), 1 cycle (2s - ON, 28s - OFF, In > 32A)					
480Y / 277 V AC	-	480Y / 277 V AC	1P: 240 V AC; 2...4P: 240 V AC	1P: 277 V AC; 2...4P: 480Y / 277 V AC	1P: 60 V DC 2P: 125 V DC
6 kA	-	10 kA		10 kA	14 kA (UL)
Suppl. prot. for general use. Application Codes: TC2, OL0, SC: U1 B, C, D: 25°C; K, Z: 25 °C					
6,000 ops. (AC), 6,000 ops. (DC); 1 cycle (1s - ON, 9s - OFF)			6,000 ops. 1 cycle (1s - ON, 9s - OFF)		
Marking on toggle, I ON / 0 OFF IP20*, IP40 in enclosure with cover		Insulation group I, RAL 7035 Insulation group II, black, sealable Marking on toggle (I ON / 0 OFF), Real CPI (red ON / green OFF) IP20**, IP40 in enclosure with cover			
20,000 ops. 30 g - 3 shocks - 11 ms 5g - 20 cycles at 5...150...5 Hz with load 0.8l 28 cycles with 55°C/90-96% and 25°C/95-100% -25...+55°C -40...+70°C					
Failsafe bi-directional cylinder-lift terminal 25 mm <sup>2</sup> / 25 mm <sup>2</sup>					
18 - 4 AWG	-	10 mm <sup>2</sup> / 10 mm <sup>2</sup>	18 - 4 AWG		
18 - 8 AWG	-		18 - 8 AWG		
25 in-lbs.	-	2.8 Nm	25 in-lbs.		
No. 2 Pozidrive On DIN rail 35 mm acc. to EN 60715 by fast clip any					
Mounting dimension 1 88 x 69 x 17.5 mm			Please note polarity of device		
ca. 125 g			92 x 71 x 17.5 mm	100 x 71 x 17.5 mm	92 x 71 x 17.5 mm
			ca. 140 g		
Yes Yes			Yes Yes No No		

\* Also fulfilling the requirement acc. to the protection degree IPXXB \*\* Only with accessory: IP20 terminal cover, see page 4/15