

Specifications

General Data			
Poles	1, 2, 3, 4, 1+N, 3+N		
Tripping characteristics	B, C, D		
Rated current (I_n)	0.5...63 A		
Rated frequency (f)	50/60 Hz		
Rated insulation voltage U_i per IEC/EN 60664-1	250 V AC (phase to ground), 440V AC (phase to phase)		
Overvoltage category	III		
Pollution degree	2		
Data per IEC/EN 60898-1			
Rated operational voltage (U_e)	1-pole	230/400V AC	
	1-pole +N	230V AC	
	2-, 3-, 4-pole 3-pole +N	400V AC	
Highest supply or utilization voltage (U_{max})	AC	1-pole	253/440V AC
		1-pole+N	253V AC
	DC ★	2-, 3-, 4-, 3-pole+N	440V AC
		1-pole	48V DC
	2-pole	96V DC	
Min. operating voltage	12V AC, 12V DC		
Rated short-circuit capacity (I_{cn})	188-J	10 kA	
	188-K	6 kA	
Energy limiting class (B, C up to 40 A)	3		
Rated impulse withstand voltage U_{imp} . (1.2/50µs)	4 kV (test voltage 6.2kV at sea level, 5kV at 2,000m)		
Dielectric test voltage	2 kV (50 / 60Hz, 1 min.)		
Reference temperature for tripping characteristics	B, C, D: 30°C		
Electrical endurance	$I_n < 30A$: 20,000 ops (AC) $I_n \geq 30A$: 10,000 ops. (AC); 1,000 ops. (DC);		

★ IEC DC ratings self-declared.

Power Loss Due to Current

Rated Current [A]	Power Loss Per Pole [W]	Rated Current [A]	Power Loss Per Pole [W]
0.5	1.4	13	2.3
1	1.4	16	2.5
2	1.8	20	2.5
3	1.5	25	3.2
4	1.8	32	3.7
6	2.0	40	4.8
8	1.5	50	4.5
10	2.1	63	5.2

Mechanical Data	
Housing	Insulation group II, RAL 7035
Indicator window	None
Protection degree per EN 60529	IP20— IP40 in enclosure with cover
Mechanical endurance	20,000 operations
Shock resistance per IEC/EN 60068-2-27	25 g - 2 shocks - 13 ms
Vibration resistance per IEC/EN 60068-2-6	5g - 20 cycles at 5...150...5 Hz with load 0.8In

Environmental	
Environmental conditions (damp heat) per IEC/EN 60068-2-30	28 cycles with 55°C/90-96% and 25°C/95-100%
Ambient temperature ★	-25...+55°C
Storage temperature	-40...+70°C

Installation	
Terminal	Cage terminal
Cross-section of wire solid, stranded	0.75...25 mm ²
Cross-section of wire flexible	0.75...16 mm ²
Tightening torque	2.0 N·m
Screwdriver	No. 2 Pozidrive
Mounting	DIN Rail (EN 60715, 35mm) with fast clip
Mounting position	Any
Supply	Optional

Approximate Dimensions and Weight	
Pole dimensions (H x D x W)	85 x 69 x 17.5 mm
Pole weight	115 g (4.4 oz.)

Combination with aux. elements	
Auxiliary contact	Yes
Signal contact	Yes
Shunt trip	Yes

★ Refer to the Ambient Temperature Derating tables.

Zero-stack Derating

The installation of several miniature circuit breaker side by side with rated current on all poles requires a correction factor to the rated current (not required if spacers are used).

No. of Adjacent Devices	Factor
1	1
2,3	0.9
4,5	0.8
≥ 6	0.75