

Miniature Circuit Breakers

System pro M

Technical data S 280

Specifications:	DIN VDE 0641, DIN VDE 0660 Teil 1, BS 3871, IEC 898, EN 60 898, IEC 947-2
No. of poles:	1, 2, 3, 4, 1+NA, 3+NA
Tripping characteristics:	B, C, K, Z, UC-B, UC-K, UC-Z
Rated current I_n :	0,2 ... 63 A
Rated voltage U_n :	single pole: 230 / 400 V ~ multipole 400 V ~
Max. operating voltage U_{Bmax} :	AC: $U_n + 10 \%$, acc. to UL 1077 and CSA 22.2: 480 V ~ DC: 1-pole 60 V \dots S 280 UC: 220 V \dots 2-pole 110 V \dots S 280 UC: 440 V \dots
Min. operating voltage U_{Bmin} :	12 V ~, 12 V \dots
Rated rupturing capacity acc. to IEC 898, EN 60 898:	see page 16
Selectivity class:	S 3
Short-circuit rupturing capacity:	see page 16
Frequency:	16 $\frac{2}{3}$... 60 Hz, other frequencies see page 14
Insulation acc. DIN VDE 0110 part 1 and 2	
- Overvoltage category:	III
- Pollution degree:	2
- Surge voltage:	5 kV (1.2/50 μ s)
- Surge alternating voltage:	3 kV (50/60 Hz)
Housing:	Moulded plastic group I (CTI \geq 600) to DIN IEC 112/VDE 303 part 1 RAL 7035
Switching lever:	Moulded plastic group II (400 \leq CTI < 600) black, sealable
Degree of protection acc. to DIN VDE 0100:	IP 20, when built in into distribution board: IP 40
Depth of unit:	68 mm
Dimensions:	acc. to DIN 43 880, size 1, see page 37
Mounting position:	optional
Mounting:	snap-on fixing on standard profile rails EN 50 022, 35 x 7.5 or screw fixing by means of mounting plate (see accessories)
Connection:	Combi box terminals on top and bottom, safe against unintentional touch acc. to DIN VDE 0106 part 100. Suitable for solid or flexible conductors from 0,75 mm ² to 35 mm ² (max. 25 mm ² when a max. 3 mm busbar is connected; from 0,75 mm ² with casing and from 1,5 mm ² without)
Tightening torque:	2 Nm
Mech. service life:	20 000 operations
Service life at rated load:	$I_n < 32$ A: 20 000 operations $I_n \geq 32$ A: 10 000 operations
Climate resistance acc. to DIN VDE 50 015 and DIN 68 part 2-30:	constant climatic conditions 23/83, 40/93, 55/20 [°C/RH] variable climatic conditions 25/95 – 40/93 [°C/RH]
Storage temperature:	$T_{max} + 70$ °C, $T_{min} - 40$ °C
Ambient temperature:	$T_{max} + 55$ °C, $T_{min} - 25$ °C
Shock resistance acc. to DIN IEC 68-2-27 and DIN EN 60 068-2-27:	30 g minimum of 2 impacts duration of shock 13 ms
Vibration resistance acc. to DIN IEC 68-2-6 and DIN EN 60 068-2-6:	5 g, 20 cycles 5 ... 150 ... 5 Hz at $0.8 \cdot I_n$
Contact position indicator:	OUT = green, ON = red
Weight:	see selection tables