

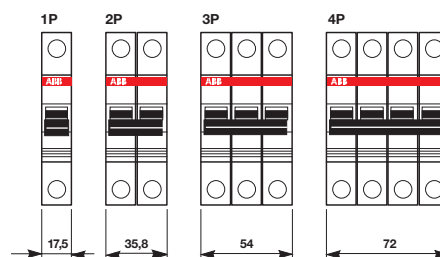
Technical features

Ordering information

Standards		IEC 60898 – IEC 60947-2	
Rated current, I_n	[A]	80, 100	
Poles		1P, 2P, 3P, 4P	
Rated voltage, U_n	one-pole AC	[V]	230
	multiple-pole AC	[V]	230/400
	one-pole DC	[V]	60
	multiple-pole DC	[V]	110
Insulation voltage U_i		[V]	500
Max. operating voltage, U_b max		[V]	440
Min. operating voltage, U_b min		[V]	12 V a.c. – 12 V d.c.
Rated frequency		[Hz]	50...60
Rated breaking capacity acc. to IEC 60898	I_{cn}	[A]	6000
Rated breaking capacity acc. to IEC 60947-2 2 poles – 230 V	ultimate I_{cu}	[kA]	10
	service I_{cs}	[kA]	10
Rated breaking capacity acc. to IEC 60947-2 3 poles – 400 V	ultimate I_{cu}	[kA]	6
	service I_{cs}	[kA]	6
Rated breaking capacity acc. to IEC 60947-2 4 poles – 400 V	ultimate I_{cu}	[kA]	6
	service I_{cs}	[kA]	6
Voltage withstanding capacity	impulse (1.2/50)	[kV]	5
	at rated frequency (50-60 Hz)	[kV]	3
Thermomagnetic release characteristic	B	$3 I_n \leq I_m \leq 5 I_n$	
	C	$5 I_n \leq I_m \leq 10 I_n$	
Dissipated power per pole	80 A	[W]	5
	100 A	[W]	6.75
Internal resistance per pole	80 A	[mOhm]	0.77
	100 A	[mOhm]	0.67
Toggle		black sealable in ON-OFF position	
Electrical life		4000	
Mechanical life		10000	
Protection degree	housing	IP4X/IPXXD (installed)	
	terminals	IP2X/IPXXB (frontal)	
Self-extinguishing degree		V0 thickness 1.6 UL 94 yellow paper	
Mechanical shock resistance		minimum 30 g – 2 shocks – duration 13 ms	
Resistance to vibrations acc. to IEC 68-2-6		5g – 20 cycles at frequency 5...150...5 Hz with load $0.8 I_n$	
Tropicalization	humid heat	[°C/RH]	28 cycles with 55/95 ... 100
	constant climatic conditions	[°C/RH]	23/83 – 40/93 – 55/20
	variable climatic conditions	[°C/RH]	25/95 – 40/95
Ambient temperature		[°C]	– 25...+ 55
Storage temperature		[°C]	– 40...+ 70
Terminal size upper/lower per cable		[mm ²]	35 flexible – 50 rigid
Mounting		on DIN rail EN 60715 (35 mm) by means of rapid fixing device	
Tightening torque		[Nm]	2.5
Pole dimensions (H x D x W)		[mm]	90 x 68 x 17.5
Pole weight		[g]	160

Rated current I_n [A]		Order code	
		old	new
1 P-Type	S281-B80	11178645	GH S281 0001 R0805
	S281-B100	11178646	GH S281 0001 R0825
2 P-Type	S282-B80	11178651	GH S282 0001 R0805
	S282-B100	11178652	GH S282 0001 R0825
3 P-Type	S283-B80	11178657	GH S283 0001 R0805
	S283-B100	11178658	GH S283 0001 R0825
4 P-Type	S284-B80	16064740	GH S284 0001 R0805
	S284-B100	16064757	GH S284 0001 R0825
1 P-Type	S281-C80	11178643	GH S281 0001 R0804
	S281-C100	11178644	GH S281 0001 R0824
2 P-Type	S282-C80	11178649	GH S282 0001 R0804
	S282-C100	11178650	GH S282 0001 R0824
3 P-Type	S283-C80	11178655	GH S283 0001 R0804
	S283-C100	11178656	GH S283 0001 R0824
4 P-Type	S284-C80	16064724	GH S284 0001 R0804
	S284-C100	16064732	GH S284 0001 R0824

Overall dimension



1 module

