

MEASUREMENT & CONTROL

MODULAR CONTACTORS

SMC

- For switching of electric circuits, especially for resistive loads and three-phase induction motors
- Number of contacts of SMC-2020: 2
Number of contacts of SMC-2004, SMC-2540, SMC-4040, SMC-6340: 4
- Can be produced with closing and disconnecting contacts:
SMC-2020: 20, 11, 02
SMC-2004: 40, 31
SMC-25, SMC-40: 40, 31, 22, 04
SMC-63: 40, 31, 22
- Protection degree IP 20 - for higher protection there are delivered screw covers
- DIN rail or panel mounting



Technical parameters	SMC-2020	SMC-2004	SMC-25	SMC-40	SMC-63
Rated insulating voltage	440 V	415 V	440 V	500 V	500 V
Rated thermo-current Ith (in AC1):	20 A	20 A	25 A	40 A	63 A
Rated operation current Ie:					
AC-1 for 400 V:	×	13 kW	16 kW	26 kW	40 kW
AC-1 for 230 V:	4 kW	7.5 kW	9 kW	16 kW	24 kW
AC-3 for 400 V:	×	2.2 kW	4 kW	11 kW	15 kW
AC-3 for 230 V:	1.3 kW	1.1 kW	2.2 kW	5.5 kW	8.5 kW
AC-7a for 400 V:	×	13 kW	16 kW	26 kW	40 kW
AC-7a for 230 V:	4 kW	7.5 kW	9 kW	16 kW	24 kW
AC-7b for 400 V:	×	2.2 kW	4 kW	11 kW	15 kW
AC-7b pro 230 V:	1.3 kW only NO	1.1 kW	2.2 kW	5.5 kW	8.5 kW
AC-15 for 400 V:	4 A	4 A	4 A	4 A	4 A
AC-15 for 230 V:	6 A	6 A	6 A	6 A	6 A
DC1 U _e = 24 V	20 A	25 A	25 A	40 A	63 A
DC1 U _e = 110 V	1 A	2 A	2 A	4 A	4 A
DC1 U _e = 220 V	0.5 A	0.5 A	0.5 A	0.8 A	0.8 A
Detailed information about maximal number of lights connected to the contactor can be found on pg. 46					
The max. number of switching for max. load					
in AC-7a:	600 switch/hr	600 switch/hr	600 switch/hr	120 cycle/hr	600 switch/hr
in AC-7b:	600 switch/hr	600 switch/hr	1200 switch/hr	120 cycle/hr	600 switch/hr
in AC-15:	1200 switch/hr	1200 switch/hr	3600 switch/hr	120 cycle/hr	1200 switch/hr
Electrical life					
in AC-7a for 400 V, 25 A:	0.2x10 ⁶	0.2x10 ⁶	0.2x10 ⁶	0.1x10 ⁶	0.1x10 ⁶
in AC-7b for 400 V, 12 A:	0.3x10 ⁶	0.2x10 ⁶	0.5x10 ⁶	0.15x10 ⁶	0.15x10 ⁶
in AC-15 for 400 V, 2 A:	×	×	10 ⁶	×	×
in AC-15 for 230 V, 4 A:	×	×	0.8x10 ⁶	×	×
Short circuit protection with the fuse with char. aM:	20 A	25 A	35 A		
Coordination type according to EN 60 947-4-1:	1	1	1	1	1
Mechanical life:	3x10 ⁶	3x10 ⁶	3x10 ⁶	3x10 ⁶	3x10 ⁶
Electrical strength:	4 kV	4 kV	4 kV	4 kV	4 kV
Max. cable size:	10 mm ²	2.5 mm ²	10 mm ²	25 mm ²	25 mm ²
Control					
Coil control voltage:	AC/DC 24 V, 48 V, 110 V, 230 V	AC 24 V, 48 V, 110 V, 230 V	AC/DC 24 V, 48 V, 110 V, 230 V	AC/DC 24 V, 48 V, 110 V, 230 V	AC/DC 24 V, 48 V, 110 V, 230 V
Coil permanent supply +/- 10 %:	2.5 W	1.9 W	3 W	5W	5W
Coil gear supply +/- 10 %:	2.5 W	21.5 W	3 W	5W	5W
Weight:	130 g	170 g	213 g	400 g	400 g
Dimensions:	17.5x85x60 mm, see page 41	35x62.5x57 mm, see page 41	35x85x60 mm, see page 41	53.3x84x60 mm, see page 41	53.3x84x60 mm, see page 41

Note

- On the contactor terminals it is possible to connect line wires with identical or 1 grade different profile. Flexible wire might not be treated by soldering.
- Terminal screws have combined slot PH2 + longitudinal