Sigma elektrik



MOTOR PROTECTION **SWITCHES**

Motor protection switches are electrical control, command and protection products designed to protect electric motors against overload current (thermal current), short circuit currents and to manually activate and deactivate the electric motor.

- 10kA, 15kA and 100kA short circuit breaking capacity
- Rated current from 0.16A to 80A
- Possibility to use padlock to fix in OFF position
- Terminals protected against finger contact
- Design compatible with accessories (auxiliary contact, low voltage coil, trip coil)

Motor Protection Switches



		SMK-25	SMK-80	SMP-25
Number of poles		3	3	3
Rated insulation voltage	Ui (V)	690	690	690
Rated impulse withstand voltage	Uimp (kV)	6	6	6
Electrical life (No. operation)	Op.	100.000	80.000	100.000
Mechanical life (No. operation)	Op.	100.000	100.000	100.000
Compatibility		AC-3	AC-3	AC-3
Rated operating voltage	Ue (V)	690	690	690
Rated operating frequency	Hz	50/60	50/60	50/60
Utilization category		A	A	A
Contamination degree		3	3	3
Vibration strength		5 g (from 5 to 150 Hz)	5 g (from 5 to 150 Hz)	5 g (from 5 to 150 Hz)
Maximum ambient operating temperature	°C	From -20 ... + 60°C (from -4 ... +140°F)	From -20 ... + 60°C (from -4 ... +140°F)	From -20 ... + 60°C (from -4 ... +140°F)
Maximum ambient storage temperature	°C	From -40 ... + 80°C) (from -40 ... +176°F)	From -40 ... + 80°C) (from -40 ... +176°F)	From -40 ... + 80°C) (from -40 ... +176°F)
Relative Humidity	%	95	95	95
Flame resistance	°C	960°C (1760°F)	960°C (1760°F)	960°C (1760°F)
Tightening torque	Nm	1,2	2	1,2
Auxiliary contact		Yes	Yes	Yes
Undervoltage release		Yes	Yes	Yes
Remote tripping coil		Yes	Yes	Yes
Container		Yes	Yes	Yes
Contactor combination block		Yes	Yes	Yes
Standards		EN 60947-4-1, 60947-2	EN 60947-4-1, 60947-2	EN 60947-4-1, 60947-2



Type Code	Rated Power at 400V AC3 (kW)	Rated Current Range (A)	Rated Short Circuit Breaking Capacity at 400V (Icu)	Min. Order Quantity	Pcs in a Box	Order Code
SMK-25	0,02	0.1-0.16	100	1	48	SMK25-0.16
	0,06	0.16-0.25	100	1	48	SMK25-0.25
	0,09	0.25-0.4	100	1	48	SMK25-0.4
	0,12	0.4-0.63	100	1	48	SMK25-0.63
	0,25	0.63-1	100	1	48	SMK25-1
	0,37	1-1,6	100	1	48	SMK25-1.6
	0,75	1.6-2.5	100	1	48	SMK25-2.5
	1,5	2,5-4	100	1	48	SMK25-4
	2,2	4-6,3	100	1	48	SMK25-6.3
	4	6-10	100	1	48	SMK25-10
	5,5	9-14	15	1	48	SMK25-14
	7,5	13-18	15	1	48	SMK25-18
	9	17-23	15	1	48	SMK25-23
	11	20-25	15	1	48	SMK25-25
	15	24-32	10	1	48	SMK25-32
SMK-80	18,5	25-40	15	1	24	SMK80-40
	22	37-50	15	1	24	SMK80-50
	30	40-63	15	1	24	SMK80-63
	40	56-80	15	1	24	SMK80-80

SMP Series Thermal Magnetic Characteristic Motor Protection Switches

New Product!



Type Code	Rated Power at 400V AC3 (kW)	Rated Current Range (A)	Rated Short Circuit Breaking Capacity at 400V (Icu)	Min. Order Quantity	Pcs in a Box	Order Code
SMP-25	0,02	0,1-0,16	100	1	48	SMP25-0.16
	0,06	0,16-0,25	100	1	48	SMP25-0.25
	0,09	0,25-0,4	100	1	48	SMP25-0.4
	0,12	0,4-0,63	100	1	48	SMP25-0.63
	0,25	0,63-1	100	1	48	SMP25-1
	0,37	1-1,6	100	1	48	SMP25-1.6
	0,75	1,6-2,5	100	1	48	SMP25-2.5
	1,5	2,5-4	100	1	48	SMP25-4
	2,2	4-6,3	100	1	48	SMP25-6.3
	4	6-10	100	1	48	SMP25-10
	5,5	9-14	15	1	48	SMP25-14
	7,5	13-18	15	1	48	SMP25-18
	9	17-23	15	1	48	SMP25-23
	11	20-25	15	1	48	SMP25-25
	15	24-32	15	1	48	SMP25-32

Accessories for Motor Protection Switches

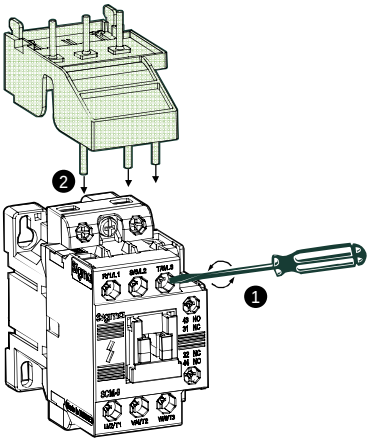




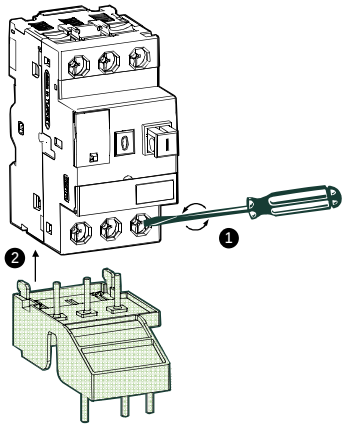


Type Code	Description	Suitable Motor Protection Switch	Order Code
SMK25-F11	Auxiliary Contact 1NO+1NC (Front Mounting)	SMK-25 / SMP-25	SMK25-F11
SMK25-F20	Auxiliary Contact 2NO (Front Mounting)	SMK-25 / SMP-25	SMK25-F20
SMK25-L11	Auxiliary Contact 1NO+1NC (Side Mounting)	SMK-25 / SMP-25	SMK25-L11
SMK25-L20	Auxiliary Contact 2NO (Side Mounting)	SMK-25 / SMP-25	SMK25-L20
SMK80-L11	Auxiliary Contact 1NO+1NC (Side Mounting)	SMK-80	SMK80-L11
SMK80-L20	Auxiliary Contact 2NO (Side Mounting)	SMK-80	SMK80-L20
SMK25-DG	Undervoltage Release 380V	SMK-25 / SMP-25	SMK25-DG
SMK25-AB	Shunt Trip Release 230V	SMK-25 / SMP-25	SMK25-AB
SMK25-A	Combination Block for Contactor (SCM9-40)	SMK-25 / SMP-25	SMK25-A
SMK25-K	Widthclosure for Motor Protection Switch	SMK-25 / SMP-25	SMK25-K

SMK25-A - Mounting

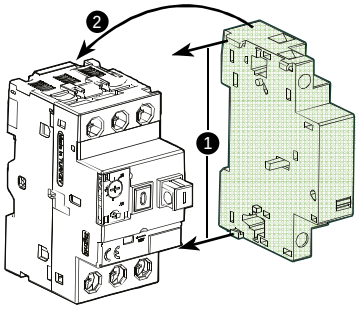


1. *Loosen the main contactor contact's screws*
2. *Mount the joint adapter to the contactor*



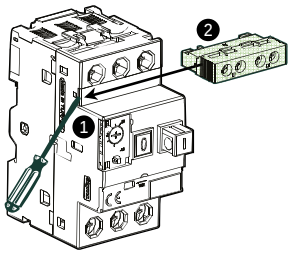
1. *Loosen motor protection switch main contact's screws*
2. *Install and mount SMK25-A's accessory combiner tab into the motor protection switch's housing, as indicated by the arrow*

SMK25-DG, SMK25-AB - Mounting



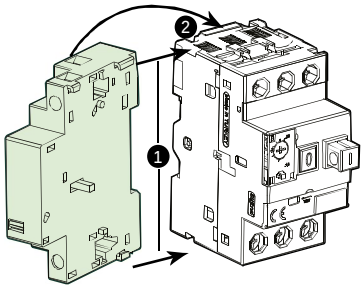
1. *Install the both SMK 25-DG and SMK25-AB auxiliary contacts tabs in the slot on the product right side as indicated by the arrow*
2. *Slide the blue locking tab into the slot and lock it, which is under the auxiliary contacts.*

SMK25-F11, SMK25-F20 - Mounting



1. *Gently push the locking tab and remove the accessory cover by pulling it upwards. As indicated by the arrow*
2. *Insert the auxiliary contact into its housing and push it into its space.*

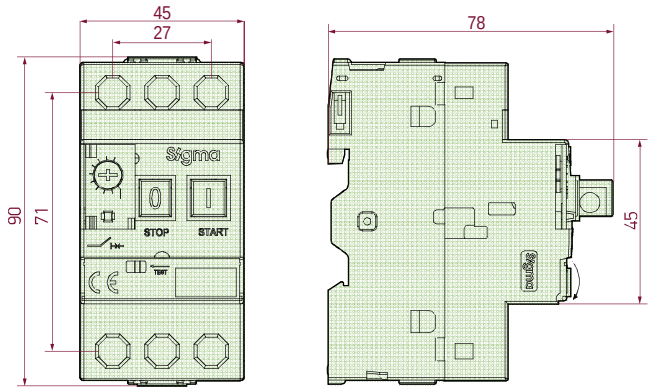
SMK25-L11, SMK25-L20 - Mounting



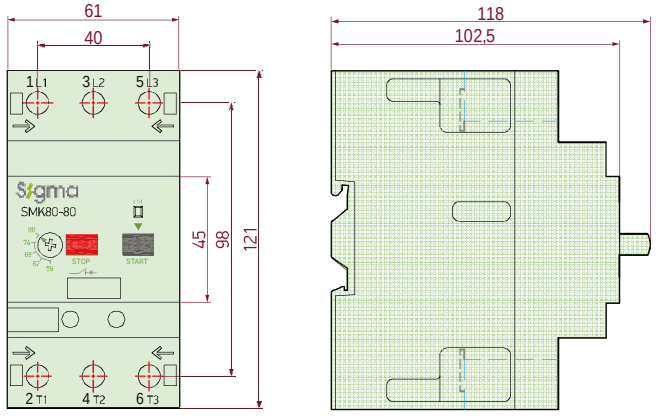
1. *At the first step: insert the securing tab into the slot on the left side of the SMK25-L11 and SMK25-L20 as indicated by the arrow.*
2. *Insert the blue locking tab into its housing and lock it*

Dimensions

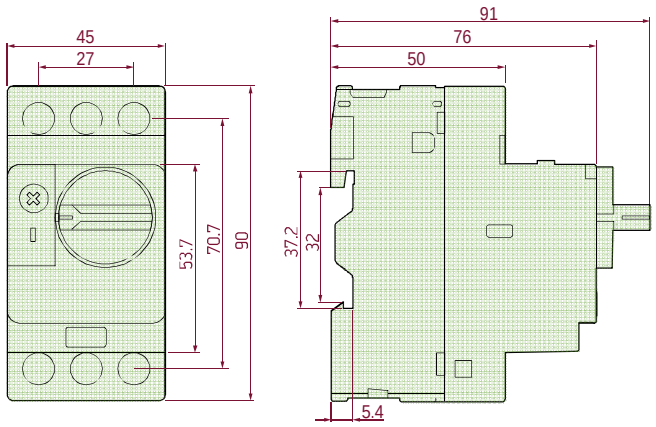
SMK-25



SMK-80



SMP-25



Motor Starters with Widthclosure (DOL)



Type Code	Rated Motor Power (kW) 380V	Setting Range (A)	Coil Voltage (V) AC	Pcs in a Box	Order Code
SMS009230	0.37	1-1.6	230	8	SMS090037
	0.75	1.6-2.5	230	8	SMS090075
	1.5	2.5-4	230	8	SMS090115
	2.2	4-6	230	8	SMS090220
	3	5-8	230	8	SMS090300
	4	7-10	230	8	SMS090400
SMS012230	5.5	9-13	230	8	SMS0120550
SMS018230	7.5	12-18	230	8	SMS0180750
SMS025230	11	16-22	230	8	SMS0251110
SMS032230	15	24-36	230	4	SMS0321150
SMS040230	18.5	28-40	230	4	SMS0401185
SMS050230	22	34-50	230	1	SMS0501220
SMS065230	30	45-65	230	1	SMS0651300
SMS080230	37	54-75	230	1	SMS0801370
SMS095230	45	63-85	230	1	SMS0951450