



MODULAR CONTACTOR

SHIHLIN ELECTRIC & ENGINEERING

Index

- Overview	P01
- Specification	P02
- Coil specification	P07
- Dimension	P08
- Installation precautions	P10

Overview

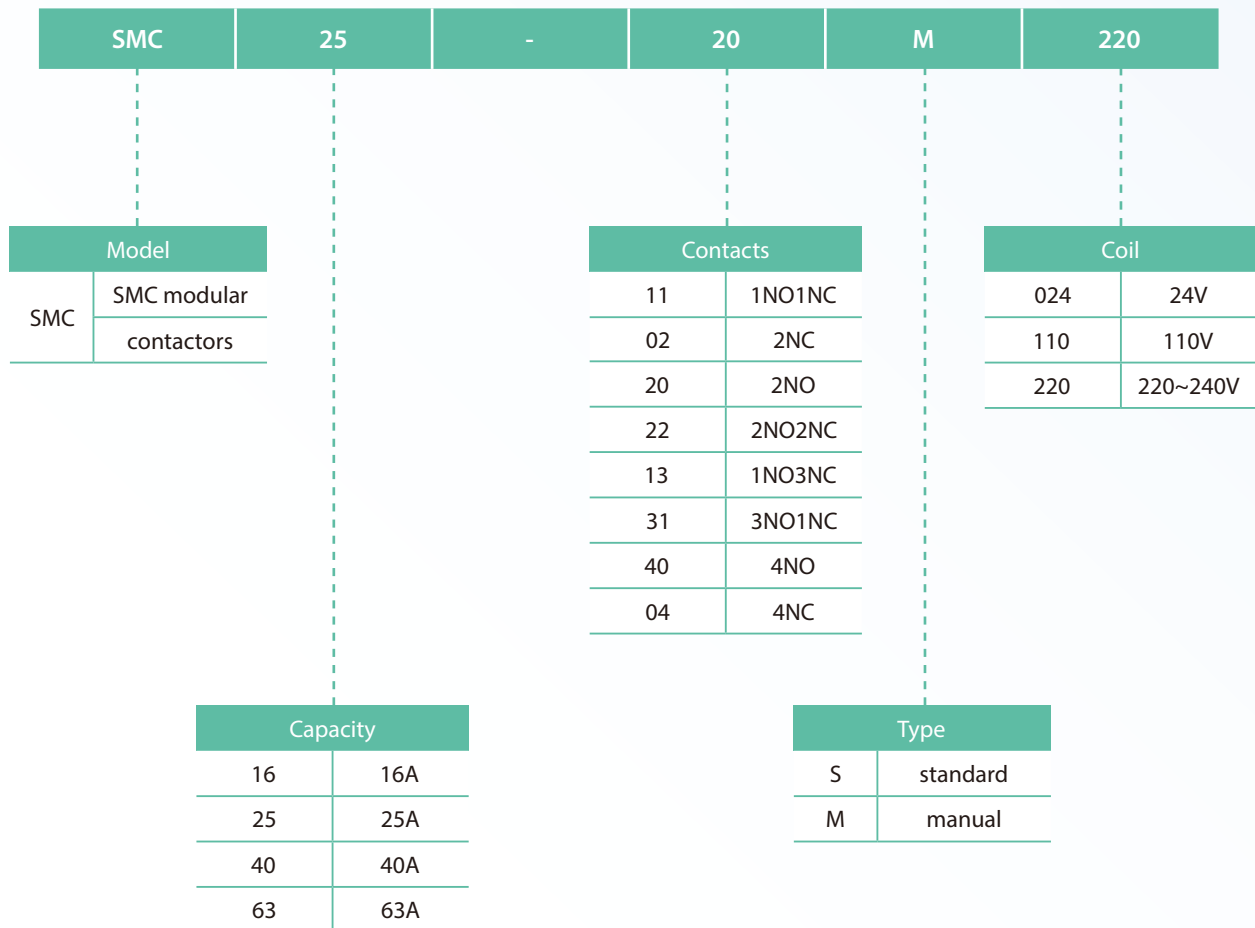
Usage:

SMC series modular contactors are used for controlling long-distance closing and opening no-sense or low sense loads, low inductance loads household appliance and other similar control appliances.

Applicability:

Modular contactors are mainly use in power system that is 50/60 Hz with maximum rated operating voltage of AC400V and maximum rated operating current of 63A. Contactors are use as remote control when using in category AC-7a (no sense or low sense load, resistance furnace, low inductance loads household appliance) and AC-7b (household motor load).

Type Designation



Modular Contactors | SMC Series | AC Series

Model	Modular Contactors	Standard	SMC16-S		SMC25-S		SMC40-S		SMC63-S	
		Manual	SMC16-M		SMC25-M		SMC40-M		SMC63-M	
		Pole	2P	4P	2P	4P	2P	4P	2P	4P
Rated Insulation Voltage (Ui) IEC	(V)	500	500	500	500	500	500	500	500	500
Rated Operational Voltage (Ue) IEC / UL	(V)	230	400	250	400	250	400	250	400	400
Rated Impulse Withstand Voltage (Uimp) IEC	(kV)	4	4	4	4	4	4	4	4	4
Rated Operational Current	AC-7a (A)	16	16	25	25	40	40	63	63	63
	AC-7b (A)	6	6	8.5	8.5	15	15	20	20	20
Continuous Current (Ith)	(A)	25	25	25	25	63	63	63	63	63
Controlled Power	kW	4	4	16	16	40	40	40	40	40
Mechanical Life (Thousand)	(Thousand)	100								
Electrical Life AC-7a (Thousand)	(Thousand)	10								
IP Level		IP20								

Accessory

Side Mount Auxiliary Contacts



Model	Contacts	Voltage	Current
smAX11	1NO 1NC	500V	<10A

9mm Spacing Block


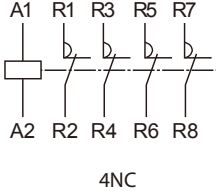

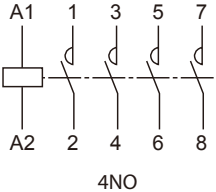

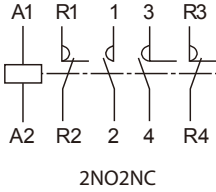

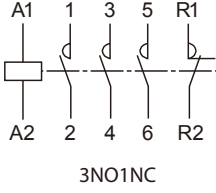


Model	Usage
smSB	When modular contactor is installed in distribution box, attach spacing block on both side of the contactor for heat radiation


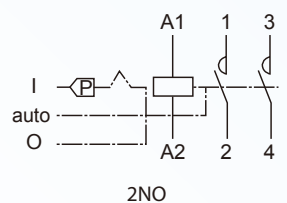

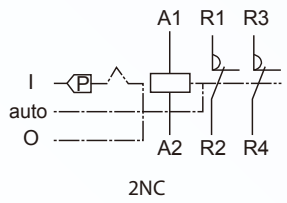

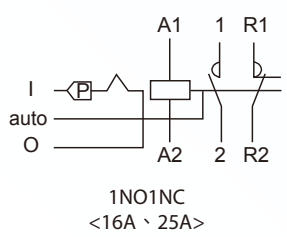

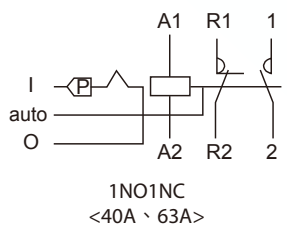
SMC Modular Contactor 50/60Hz 2P

Appearance	Type	Rated Current(A)	Contacts	Rated Voltage(Vac) (50/60Hz)	Width(mm)	Order code
	 <p>2NO</p>	16	2NO	24	18	SMC16-20S24
			2NO	110	18	SMC16-20S110
			2NO	220-240	18	SMC16-20S220
			2NC	24	18	SMC16-02S24
			2NC	110	18	SMC16-02S110
			2NC	220-240	18	SMC16-02S220
			1NO1NC	24	18	SMC16-11S24
			1NO1NC	110	18	SMC16-11S110
1NO1NC	220-240	18	SMC16-11S220			
	 <p>2NC</p>	25	2NO	24	18	SMC25-20S24
			2NO	110	18	SMC25-20S110
			2NO	220-240	18	SMC25-20S220
			2NC	24	18	SMC25-02S24
			2NC	110	18	SMC25-02S110
			2NC	220-240	18	SMC25-02S220
			1NO1NC	24	18	SMC25-11S24
			1NO1NC	110	18	SMC25-11S110
1NO1NC	220-240	18	SMC25-11S220			
	 <p>1NO1NC <16A、25A></p>	40	2NO	24	36	SMC40-20S24
			2NO	110	36	SMC40-20S110
			2NO	220-240	36	SMC40-20S220
			2NC	24	36	SMC40-02S24
			2NC	110	36	SMC40-02S110
			2NC	220-240	36	SMC40-02S220
			1NO1NC	24	36	SMC40-11S24
			1NO1NC	110	36	SMC40-11S110
1NO1NC	220-240	36	SMC40-11S220			
	 <p>1NO1NC <40A、63A></p>	63	2NO	24	36	SMC63-20S24
			2NO	110	36	SMC63-20S110
			2NO	220-240	36	SMC63-20S220
			2NC	24	36	SMC63-02S24
			2NC	110	36	SMC63-02S110
			2NC	220-240	36	SMC63-02S220
			1NO1NC	24	36	SMC63-11S24
			1NO1NC	110	36	SMC63-11S110
1NO1NC	220-240	36	SMC63-11S220			


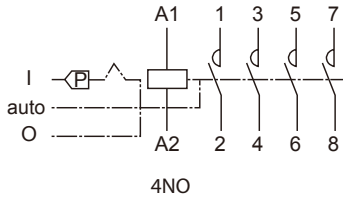

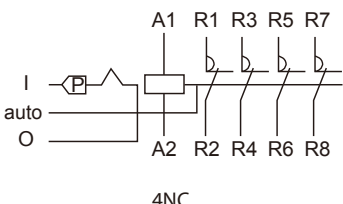

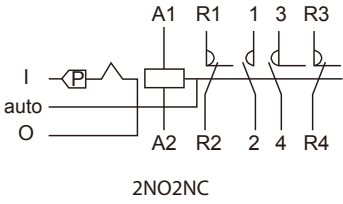
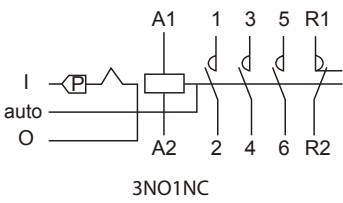
SMC Modular Contactor 50/60Hz 4P

Appearance	Type	Rated Current(A)	Contacts	Rated Voltage(Vac) (50/60Hz)	Width(mm)	Order code
	 <p style="text-align: center;">4NC</p>	16	4NO	24	36	SMC16-40S24
			4NO	110	36	SMC16-40S110
			4NO	220-240	36	SMC16-40S220
			4NC	24	36	SMC16-04S24
			4NC	110	36	SMC16-04S110
			4NC	220-240	36	SMC16-04S220
			2NO2NC	24	36	SMC16-22S24
			2NO2NC	110	36	SMC16-22S110
			2NO2NC	220-240	36	SMC16-22S220
			3NO1NC	24	36	SMC16-31S24
			3NO1NC	110	36	SMC16-31S110
			3NO1NC	220-240	36	SMC16-31S220
	 <p style="text-align: center;">4NO</p>	25	4NO	24	36	SMC25-40S24
			4NO	110	36	SMC25-40S110
			4NO	220-240	36	SMC25-40S220
			4NC	24	36	SMC25-04S24
			4NC	110	36	SMC25-04S110
			4NC	220-240	36	SMC25-04S220
			2NO2NC	24	36	SMC25-22S24
			2NO2NC	110	36	SMC25-22S110
			2NO2NC	220-240	36	SMC25-22S220
			3NO1NC	24	36	SMC25-31S24
			3NO1NC	110	36	SMC25-31S110
			3NO1NC	220-240	36	SMC25-31S220
	 <p style="text-align: center;">2NO2NC</p>	40	4NO	24	54	SMC40-40S24
			4NO	110	54	SMC40-40S110
			4NO	220-240	54	SMC40-40S220
			4NC	24	54	SMC40-04S24
			4NC	110	54	SMC40-04S110
			4NC	220-240	54	SMC40-04S220
			2NO2NC	24	54	SMC40-22S24
			2NO2NC	110	54	SMC40-22S110
			2NO2NC	220-240	54	SMC40-22S220
			3NO1NC	24	54	SMC40-31S24
			3NO1NC	110	54	SMC40-31S110
			3NO1NC	220-240	54	SMC40-31S220
	 <p style="text-align: center;">3NO1NC</p>	63	4NO	24	54	SMC63-40S24
			4NO	110	54	SMC63-40S110
			4NO	220-240	54	SMC63-40S220
			4NC	24	54	SMC63-04S24
			4NC	110	54	SMC63-04S110
			4NC	220-240	54	SMC63-04S220
			2NO2NC	24	54	SMC63-22S24
			2NO2NC	110	54	SMC63-22S110
			2NO2NC	220-240	54	SMC63-22S220
			3NO1NC	24	54	SMC63-31S24
			3NO1NC	110	54	SMC63-31S110
			3NO1NC	220-240	54	SMC63-31S220

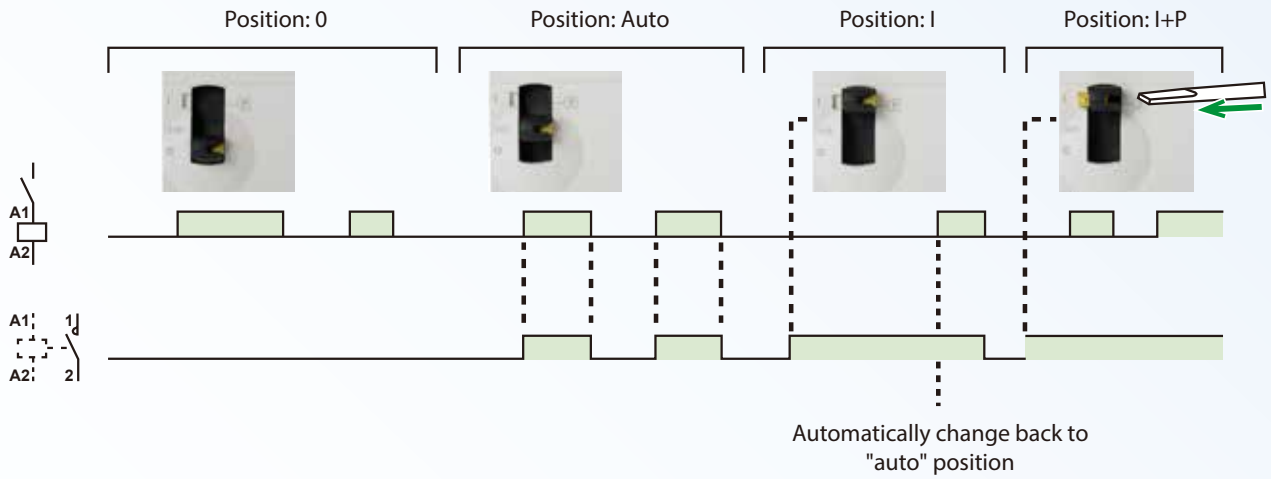
SMC Manual Modular Contactor 50/60Hz 2P

Appearance	Type	Rated Current(A)	Contacts	Rated Voltage(Vac) (50/60Hz)	Width(mm)	Order code
	 <p>2NO</p>	16	2NO	24	18	SMC16-20M24
			2NO	110	18	SMC16-20M110
			2NO	220-240	18	SMC16-20M220
			2NC	24	18	SMC16-02M24
			2NC	110	18	SMC16-02M110
			2NC	220-240	18	SMC16-02M220
			1NO1NC	24	18	SMC16-11M24
			1NO1NC	110	18	SMC16-11M110
1NO1NC	220-240	18	SMC16-11M220			
	 <p>2NC</p>	25	2NO	24	18	SMC25-20M24
			2NO	110	18	SMC25-20M110
			2NO	220-240	18	SMC25-20M220
			2NC	24	18	SMC25-02M24
			2NC	110	18	SMC25-02M110
			2NC	220-240	18	SMC25-02M220
			1NO1NC	24	18	SMC25-11M24
			1NO1NC	110	18	SMC25-11M110
1NO1NC	220-240	18	SMC25-11M220			
	 <p>1NO1NC <16A、25A></p>	40	2NO	24	36	SMC40-20M24
			2NO	110	36	SMC40-20M110
			2NO	220-240	36	SMC40-20M220
			2NC	24	36	SMC40-02M24
			2NC	110	36	SMC40-02M110
			2NC	220-240	36	SMC40-02M220
			1NO1NC	24	36	SMC40-11M24
			1NO1NC	110	36	SMC40-11M110
1NO1NC	220-240	36	SMC40-11M220			
	 <p>1NO1NC <40A、63A></p>	63	2NO	24	36	SMC63-20M24
			2NO	110	36	SMC63-20M110
			2NO	220-240	36	SMC63-20M220
			2NC	24	36	SMC63-02M24
			2NC	110	36	SMC63-02M110
			2NC	220-240	36	SMC63-02M220
			1NO1NC	24	36	SMC63-11M24
			1NO1NC	110	36	SMC63-11M110
1NO1NC	220-240	36	SMC63-11M220			

SMC Manual Modular Contactor 50/60Hz 4P

Appearance	Type	Rated Current(A)	Contacts	Rated Voltage(Vac) (50/60Hz)	Width(mm)	Order code
	 <p>4NO</p>	16	4NO	24	36	SMC16-40M24
			4NO	110	36	SMC16-40M110
			4NO	220-240	36	SMC16-40M220
			4NC	24	36	SMC16-04M24
			4NC	110	36	SMC16-04M110
			4NC	220-240	36	SMC16-04M220
			2NO2NC	24	36	SMC16-22M24
			2NO2NC	110	36	SMC16-22M110
			2NO2NC	220-240	36	SMC16-22M220
			3NO1NC	24	36	SMC16-31M24
			3NO1NC	110	36	SMC16-31M110
			3NO1NC	220-240	36	SMC16-31M220
	 <p>4NC</p>	25	4NO	24	36	SMC25-40M24
			4NO	110	36	SMC25-40M110
			4NO	220-240	36	SMC25-40M220
			4NC	24	36	SMC25-04M24
			4NC	110	36	SMC25-04M110
			4NC	220-240	36	SMC25-04M220
			2NO2NC	24	36	SMC25-22M24
			2NO2NC	110	36	SMC25-22M110
			2NO2NC	220-240	36	SMC25-22M220
			3NO1NC	24	36	SMC25-31M24
			3NO1NC	110	36	SMC25-31M110
			3NO1NC	220-240	36	SMC25-31M220
	 <p>2NO2NC</p>	40	4NO	24	54	SMC40-40M24
			4NO	110	54	SMC40-40M110
			4NO	220-240	54	SMC40-40M220
			4NC	24	54	SMC40-04M24
			4NC	110	54	SMC40-04M110
			4NC	220-240	54	SMC40-04M220
			2NO2NC	24	54	SMC40-22M24
			2NO2NC	110	54	SMC40-22M110
			2NO2NC	220-240	54	SMC40-22M220
			3NO1NC	24	54	SMC40-31M24
			3NO1NC	110	54	SMC40-31M110
			3NO1NC	220-240	54	SMC40-31M220
	 <p>3NO1NC</p>	63	4NO	24	54	SMC63-40M24
			4NO	110	54	SMC63-40M110
			4NO	220-240	54	SMC63-40M220
			4NC	24	54	SMC63-04M24
			4NC	110	54	SMC63-04M110
			4NC	220-240	54	SMC63-04M220
			2NO2NC	24	54	SMC63-22M24
			2NO2NC	110	54	SMC63-22M110
			2NO2NC	220-240	54	SMC63-22M220
			3NO1NC	24	54	SMC63-31M24
			3NO1NC	110	54	SMC63-31M110
			3NO1NC	220-240	54	SMC63-31M220

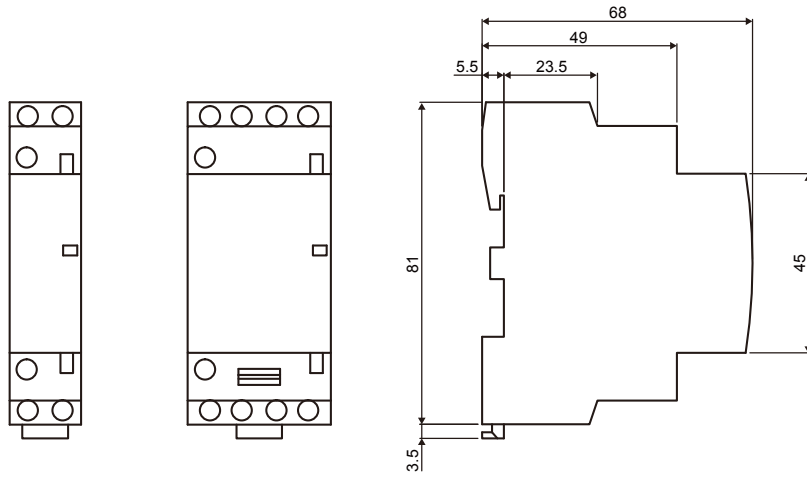
Operation



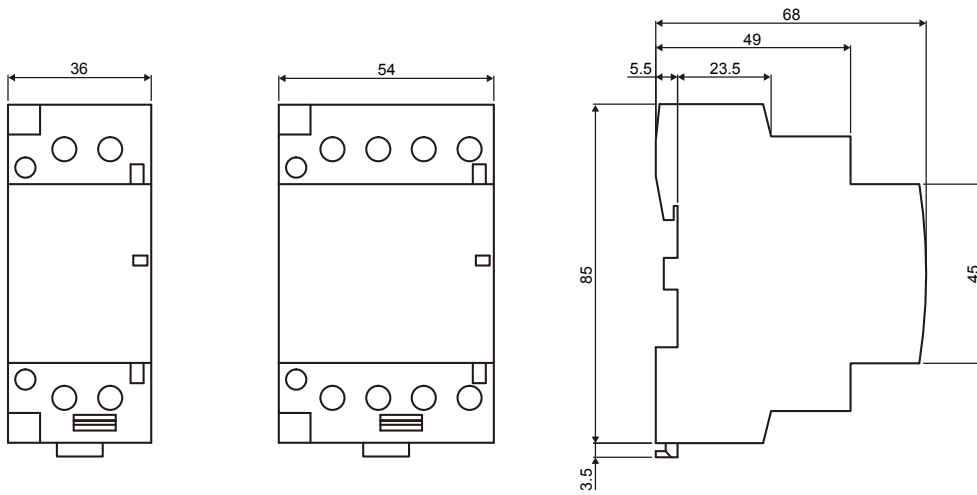
Coil Specification

Pole	Rated Current (A)	Rated Voltage (Vac) (50/60Hz)	Momentary VA	Continuous VA	Consumption (W)
2P	16	24	15	3.8	1.3
		110	15	5	1.5
		220~240	9.2	2.7	1.2
	25	24	15	3.8	1.3
		110	15	5	1.5
		220~240	9.2	2.7	1.2
	40	24	35	5.5	1.6
		110	35	4.5	1.6
		220~240	35	4.5	1.6
63	24	35	5.5	1.6	
	110	35	4.5	1.6	
	220~240	35	4.5	1.6	
4P	16	24	34	4.6	1.6
		110	34	4.6	1.6
		220~240	34	4.6	1.6
	25	24	34	4.6	1.6
		110	34	4.6	1.6
		220~240	34	4.6	1.6
	40	24	53	6.5	2.5
		110	53	6.5	2.5
		220~240	53	6.5	2.5
	63	24	53	6.5	2.5
		110	53	6.5	2.5
		220~240	53	6.5	2.5

Dimension

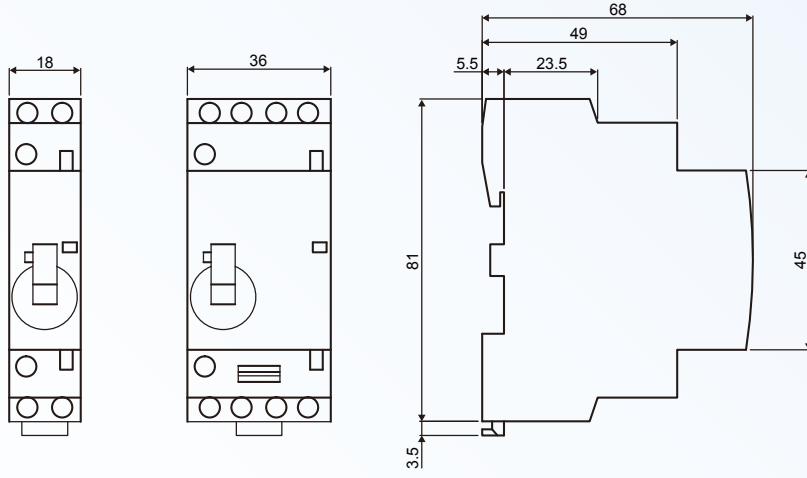


SMC 16/25

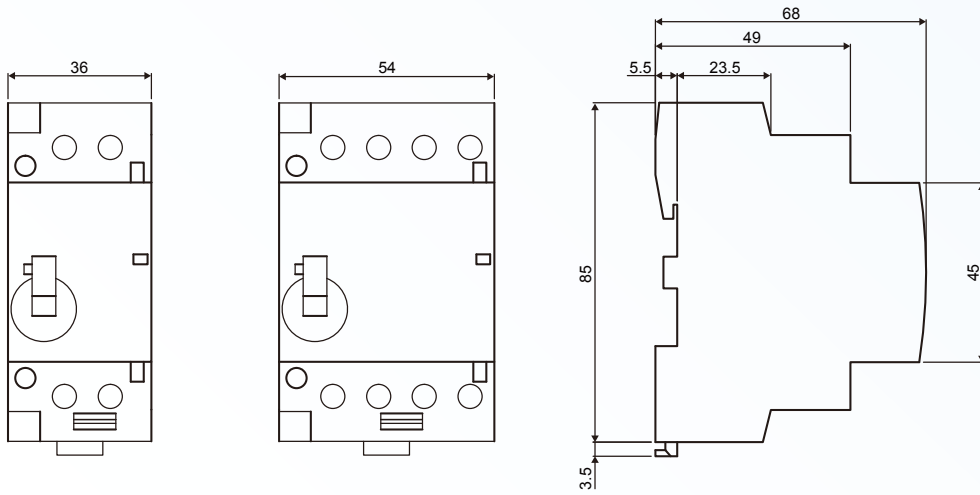


SMC 40/63

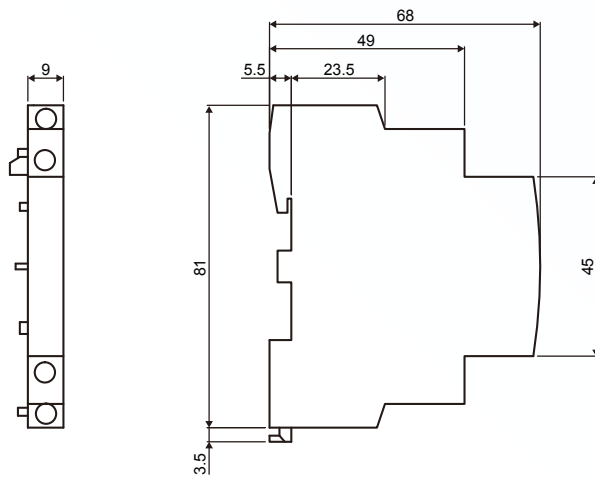
Dimension



SMC16/25M Manual type



SMC40/63M Manual type



smAX11

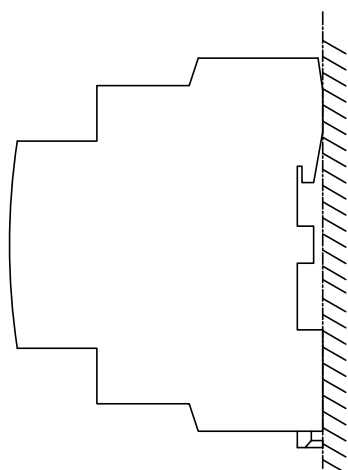
Installation Precautions

Installation Precautions:

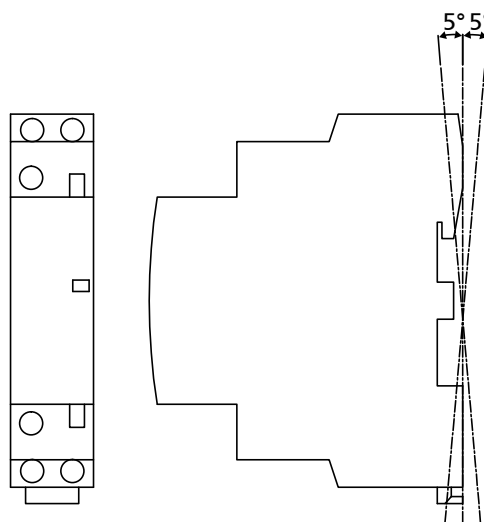
1. Altitude below 2000m
2. Ambient temperature: $-5^{\circ}\text{C}\sim+60^{\circ}\text{C}$
3. Storage temperature: $-40^{\circ}\text{C}\sim+70^{\circ}\text{C}$
4. Pollution Degree: 2
5. Please do not install in a place that contains dust, moisture, salt, oil stains, or corrosive or flammable gases.
6. Coil operating voltage should be applied within 85~110% of rated voltage. If higher than 110%, the coil life will be reduced, or the coil could burn out if lower than 85%.

Installation direction:

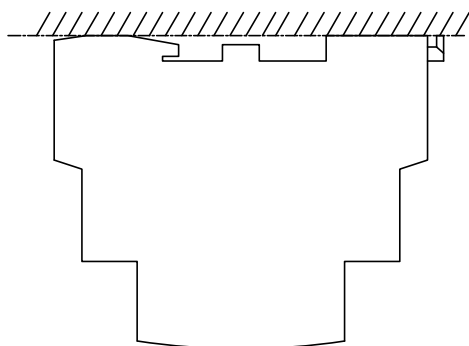
1. The regular installation direction of the contactor is vertical, tilting installation can not exceed 5° .
Please refer to the figure below.
2. Use standard din rail installation.



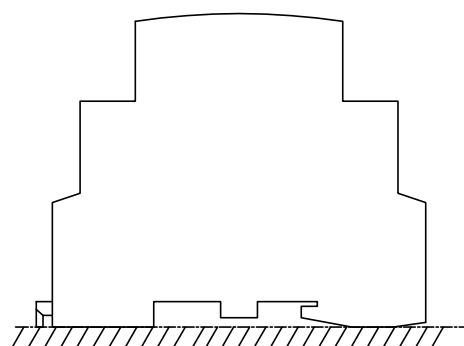
Regular installation



Tilt installation



Downward installation



Upward installation

SHIHLIN ELECTRIC

& ENGINEERING

MOTOR CONTROL (CONTACTOR/ MS/ MMS), CIRCUIT BREAKER (MCCB/ ELCB/ EMCCB/ MCB), AIR CIRCUIT BREAKER, AUTOMATIC TRANSFER SWITCHES (Panel Board Type/ Residential Unit Use), SURGE PROTECTIVE DEVICE, LOW VOLTAGE POWER CAPACITORS, SMART METER, INVERTER

Breaker & switchgears overseas sales dept.

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