

WZSTEC[®] SONTUOEC[®]

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PRODUCT MODEL

> RCBO / RCCB / MCB / WIFI MCB/MCCB / ACB /
Isolator Switch/ AC Contactor / Thermal Relay /
Magnetic Starter / Power Distribution Box /Others

SONTUOEC[®]



Electronic sample

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**WENZHOU SANTUO
ELECTRICAL CO.,LTD.**



CE CB SAA ISO9001

SONTUOEC[®]
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Authoritative attestation
Quality assurance

COMPANY PROFILE

WENZHOU SANTUO ELECTRICAL CO.,LTD. is one of manufactories that specialize in manufacturing RCBO / RCCB / MCB / WIFI MCB/MCCB / ACB / Isolator Switch/ AC Contactor / Thermal Relay/Magnetic Starter/Power Distribution Box /Others and is located in Liushi, Wenzhou, China that called“the City of Low Voltage Electrical Appliances ;It is convenient transportation access and a beautiful environment.

The products have passed SAA, CE, CB,ISO9001approvals and strictly comply with IEC standards. The company has advanced detection instruments and strong technical force with strong research and development capability, product constantly updated. All of products are greatly appreciated in a variety of different markets throughout the world.

If you are interested in any of our products, please feel free to contact us. We are looking forward to forming successful business relationships with new clients around the world in the near future .

TRADEMARK:

SONTUOEC[®]

WZSTEC[®]

STUOEC[®]

SONTUOC[®]



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SONTUOEC

STI2-100, STI4-100

Internet of Things Circuit Breaker (WiFi Type)



Three-step Connect Easy To Use



GENERAL

STI2 series IoT circuit breaker is a multi-function intelligent switch that integrates the functions of electricity metering, overload, short circuit, over and under voltage, leakage, over-temperature protection, remote opening and closing, timing, network communication and so on. It can be widely used in smart power management places such as commerce, agriculture, schools, hospitals, hotels, entertainment places, stations, cultural relics protection units, urban street lamp management and control, and can also be widely used in energy consumption management in industrial and mining enterprises, office buildings and other places.

SPECIFICATIONS

Conforming to standards	GB10963.1
Instantaneous trip type	Type C (other types, can be customized)
Rated current	16A、20A、25A、32A、40A、50A、63A、80A、100A
Short-circuit breaking capacity	≥6KA
Short circuit protection	When the line is short-circuited, the circuit breaker is powered off for 0.01s
Overvoltage protection	When the line is over or under voltage, the circuit breaker will be cut off after 3S (can be set) Over / under voltage setting demand setting percentage value
Overload delay protection	According to the rated current of the circuit breaker, it meets the requirements of GB10963.1 standard
Timing control	Can be set according to demand
View	Through the mobile phone APP, you can view the voltage, switch on and off status
Support Voice Control	Work with Amazon Alexa/Google Assistance/IFTTT
Manual automatic integrated control	The mobile phone APP can be automatically controlled, and can also be controlled by the push rod (handle);
communication method	Wireless WIFI



AC type

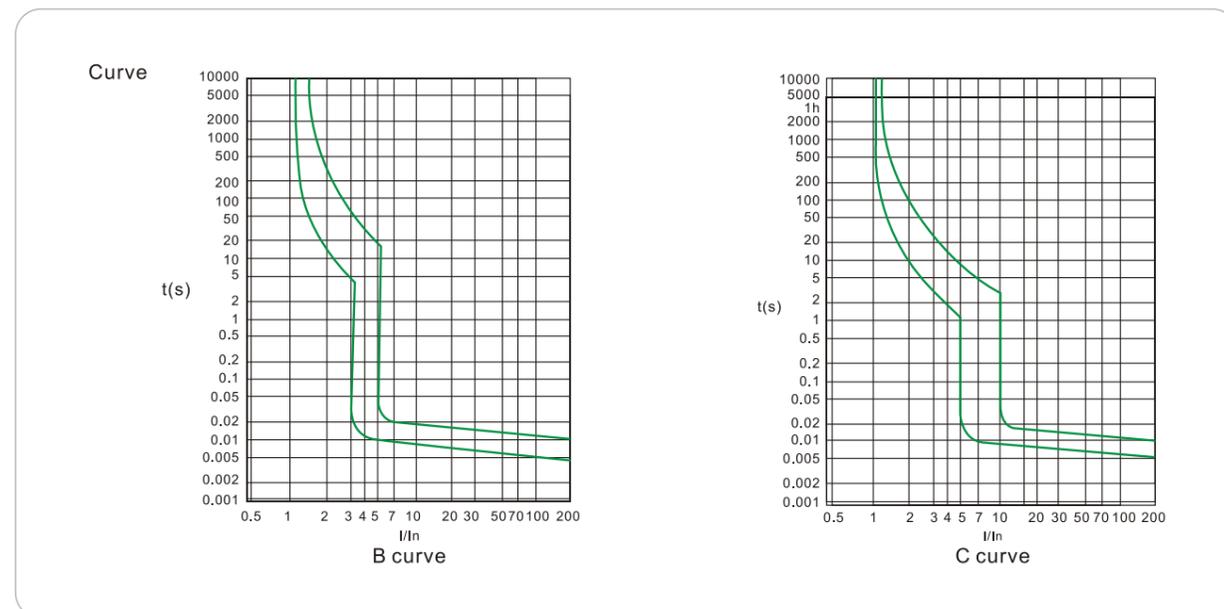
A type

CE CB SAA ISO9001

GENERAL

RCBO is mainly used in AC 50Hz(60Hz), rated voltage 230/400V, rated current 6A to 40A low voltage terminal distribution system. RCBO is equal with MCB+RCD function; It is used for electric shock protection and human indirect contact protection, electric equipment protection when human body touching electricity or electric network leak current exceeds stipulated value, and over load and short circuit protection ; It can also be a non-frequency operator in the circuit, widely used in the residential and commercial district. It complies with standard of IEC61009-1.

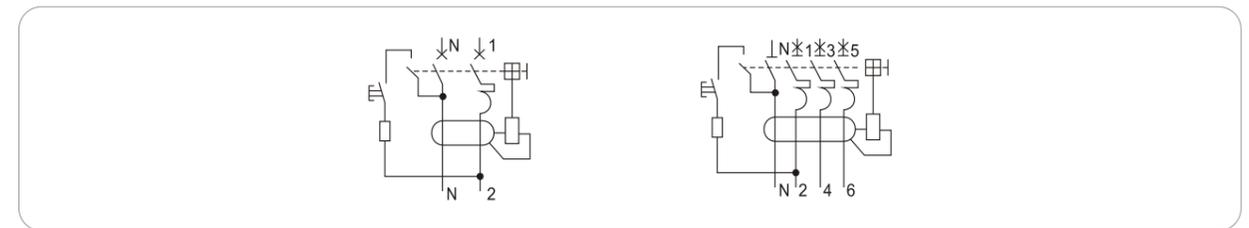
SPECIFICATIONS



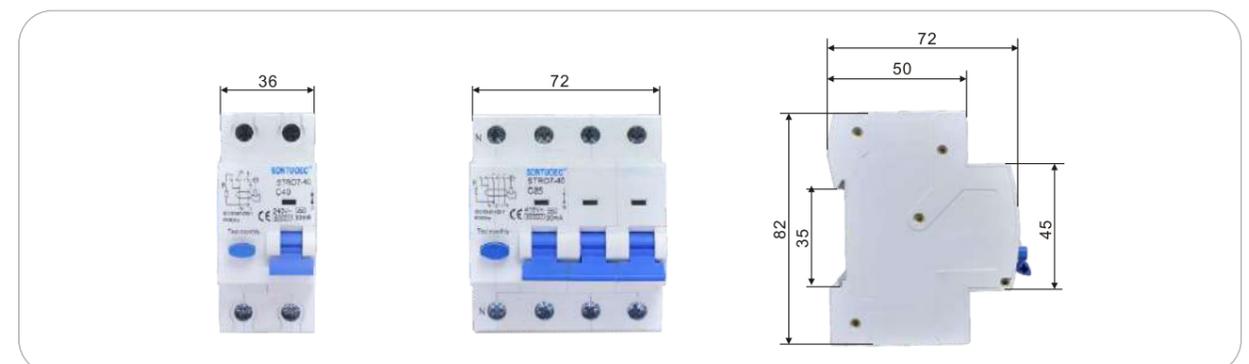
SPECIFICATIONS

	Standard	Unit	IEC/EN 61009-1
Electrical features	Mode		Electro-magnetic type ,electronic type
	Type(wave form of the earth leakage sensed)		A, AC
	Thermo-magnetic release characteristic		B,C,D
	Rated current In	A	6, 10, 16, 20, 25, 32, 40
	Poles	P	1P+N, 3P+N
	Rated voltage Ue	V	AC 230, 400
	Rated sensitivity IΔn	A	0.01, 0.03, 0.1, 0.3, 0.5
	Rated residual making and breaking capacity IΔm	A	500
	Rated short-circuit capacity Icn	A	6000
	Break time under IΔn	s	≤0.1
	Rated frequency	Hz	50/60
	Rated impulsewithstand voltage(1.2/50)Uimp	V	4000
	Mechanical features	Dielectric test voltage at ind.Freq for 1min	kV
Insulation voltage Ui		V	250
Pollution degree			2
Electrical life			4000
Mechanical life			10000
Fault current Indicator			Yes
Protection degree			IP20
Installation	Ambient temperature (with daily average≤35℃)	℃	-5~+40(Special application please refer to temperature compensation correction)
	Storage temperature	℃	-25~+70
	Terminal connection type		Cable/Pin-type busbar/U-type busbar
	Terminal size top/bottom for cable	mm ²	25
		AWG	18-5
	Terminal size top/bottom for busbar	mm ²	25
		AWG	18-3
Mounting		On DIN rail EN 60715(35mm)by means of fast clip device	
Connection		From top	

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)

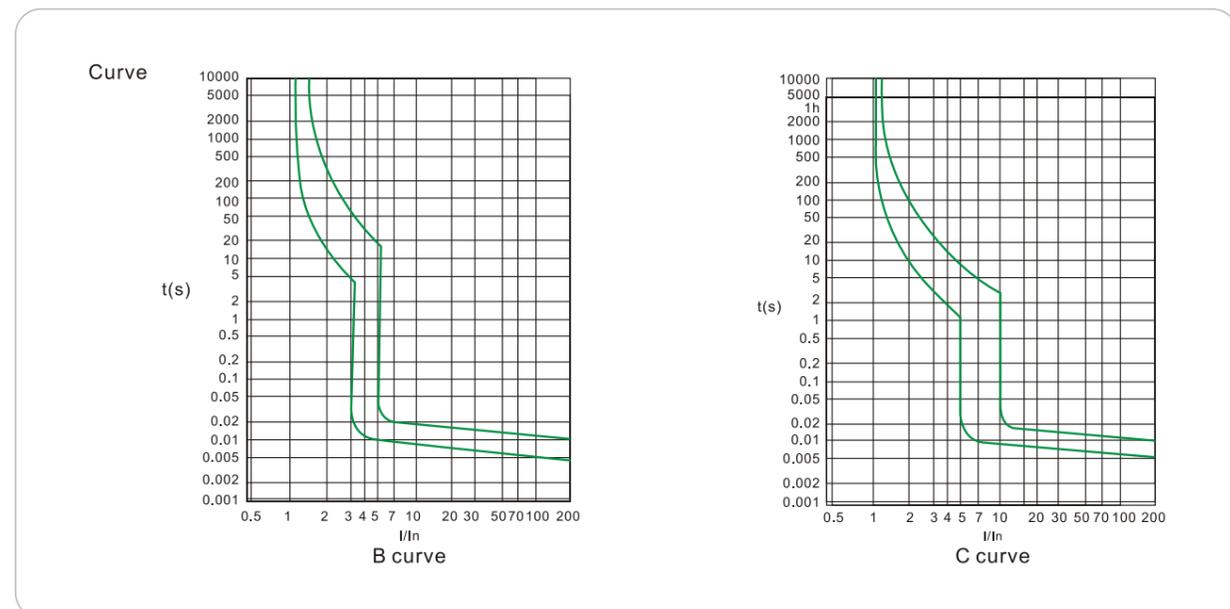




GENERAL

RCBO is mainly used in AC 50Hz(60Hz), rated voltage 110/220V, 120/240V, rated current 6A to 40A low voltage terminal distribution system. RCBO is equal with MCB+RCD function; It is used for electric shock protection and human indirect contact protection, electric equipment protection when human body touching electricity or electric network leak current exceeds stipulated value, and over load and short circuit protection ; It can also be a non-frequency operator in the circuit, widely used in the residential and commercial district. It complies with standard of IEC61009-1.

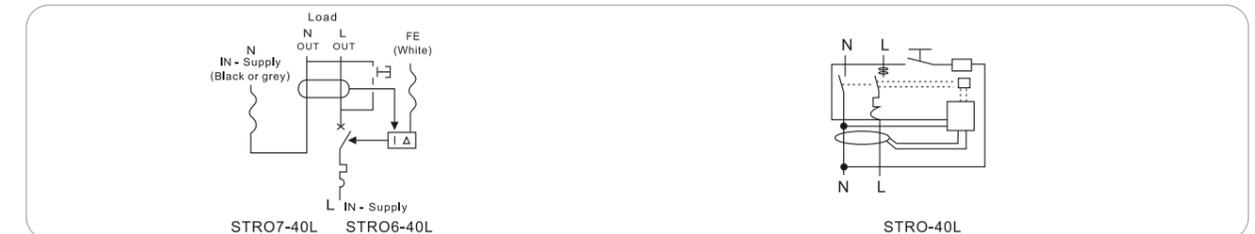
SPECIFICATIONS



SPECIFICATIONS

	Standard	Unit	IEC/EN 61009-1
Electrical features	Mode		Electronic type
	Type(wave form of the earth leakage sensed)		A, AC
	Thermo-magnetic release characteristic		B,C/D
	Rated current I _n	A	6, 10, 16, 20, 25, 32, 40
	Poles	P	1P+N
	Rated voltage U _e	V	110/220, 120
	Rated sensitivity I _{Δn}	A	0.01, 0.03, 0.1
	Rated residual making and breaking capacity I _{Δm}	A	500
	Rated short-circuit capacity I _{cn}	A	6000
	Break time under I _{Δn}	s	≤0.1
	Rated frequency	Hz	50/60
	Rated impulse withstand voltage(1.2/50)U _{imp}	V	4000
	Dielectric test voltage at ind. Freq. for 1 min	kV	2
	Insulation voltage U _i		500
Mechanical features	Pollution degree		2
	Electrical life	t	4000
	Mechanical life	t	4000
	Contact position indicator		Yes
	Protection degree		IP20
	Ambient temperature (with daily average ≤35℃)	℃	-5~+40(Special application please refer to temperature compensation correction)
	Storage temperature	℃	-25~+70
Installation	Terminal connection type		Cable/U-type busbar/Pin-type busbar
	Terminal size top/bottom for cable	mm ²	16
		AWG	18-5
	Terminal size top/bottom for busbar	mm ²	16
		AWG	18-5
	Tightening torque	N*m	2
In-lbs		18	
Connection			From top
Mounting			Plug-in type

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)





GENERAL

STFS2-100 series Multi-function residual current circuit breaker with over current protection (RCBO) is suitable for AC 50/60Hz, rated in a circuit with a voltage of 230V-400V and a rated current of 100A, when a person is electrocuted or the power grid leaks.

When the leakage, overvoltage, and undervoltage reach the set values, the residual current circuit breaker can quickly operate in a very short period of time quickly cut off the power supply. When the monitoring temperature of the residual current circuit breaker reaches the set value, the monitoring ground wire is not connected.

When connected, the product emits an alarm sound to protect the safety of personnel and electrical equipment, and can avoid

Prevent damage to equipment caused by overvoltage in the power grid. Has overload, short circuit, leakage, overvoltage Undervoltage and overtemperature protection functions can also be used to intermittently turn on and off electrical devices under normal circumstances

Lighting circuits, especially suitable for industrial and commercial lighting distribution systems. The product has a small volume, compact structure, and better cost-effectiveness than other similar products. It has a beautiful appearance,

High breaking capacity makes it a good choice for household power distribution. This product complies with GB/T 16917.1 and IEC 61009-1 standards and has obtained CE certification.

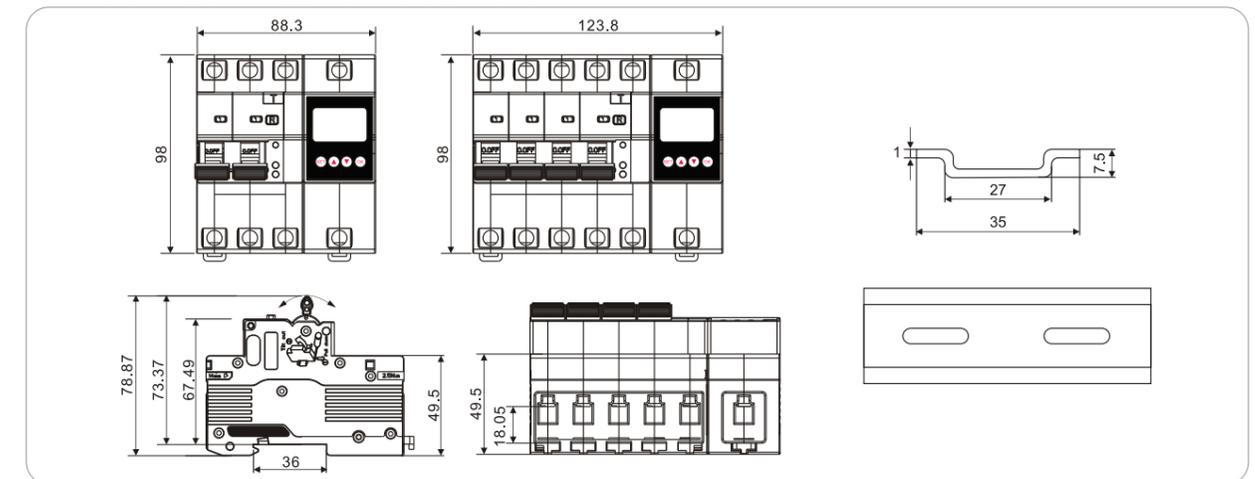
SURROUNDING AIR TEMPERATURE

- The ambient air temperature shall not be lower than -5 °C, not higher than +40 °C, and the daily average value shall not exceed +35 °C.
- Altitude: The altitude of the installation site shall not exceed 2000m.
- Atmospheric conditions
 - The air is clean, and at a maximum temperature of +40 °C, the relative humidity of the air is not high More than 50%. Higher relative humidity is allowed at lower temperatures, such as at +20 °C,
 - The relative humidity should not exceed 90%. Due to occasional moderate condensation caused by temperature changes, Attention should be paid to taking appropriate measures.
- Installation Category
 - Installation categories are II and III

SPECIFICATIONS

	Standard	Unit	IEC/EN 61009-1
Electrical features	Mode		Electronic type
	Type(wave form of the earth leakage sensed)		AC
	Thermo-magnetic release characteristic		B,C,D
	Rated current I _n	A	6,10,16,20,25,32,40,63, 80, 100
	Poles	P	1P+N, 3P+N
	Rated voltage U _e	V	AC 230, 400
	Rated sensitivity I _{Δn}	A	0.03, 0.1, 0.3
	Rated residual making and breaking capacity I _{Δm}	A	500
	Rated short-circuit capacity I _{cn}	A	4500, 6000
	Break time under I _{Δn}	s	≤0.1
	Rated frequency	Hz	50/60
	Rated impulsewithstand voltage(1.2/50)U _{imp}	V	4000
	Dielectric test voltage at ind.Freq for 1min	kV	2
	Insulation voltage U _i	V	250
Mechanical features	Pollution degree		2
	Electrical life		4000
	Mechanical life		10000
	Fault current Indicator		Yes
	Protection degree		IP20
	Ambient temperature (with daily average≤35°C)	°C	-5~+40(Special application please refer to temperature compensation correction)
	Storage temperature	°C	-25~+70
Installation	Terminal connection type		Cable/Pin-type busbar/U-type busbar
	Terminal size top/bottom for cable	mm ²	25
		AWG	18-5
	Terminal size top/bottom for busbar	mm ²	25
		AWG	18-3
	Mounting		On DIN rail EN 60715(35mm)by means of fast clip device
Connection		From top	

SHAPE AND INSTALLATION DIMENSIONS



Warning!
 Warning normal state: green light on;
 Abnormal state: The light is off
 Grounding requirements:
 It is necessary to ensure that there is an incoming ground wire and a grounding wire, and the grounding resistance must be ≤ 5Ω!



STG

STO

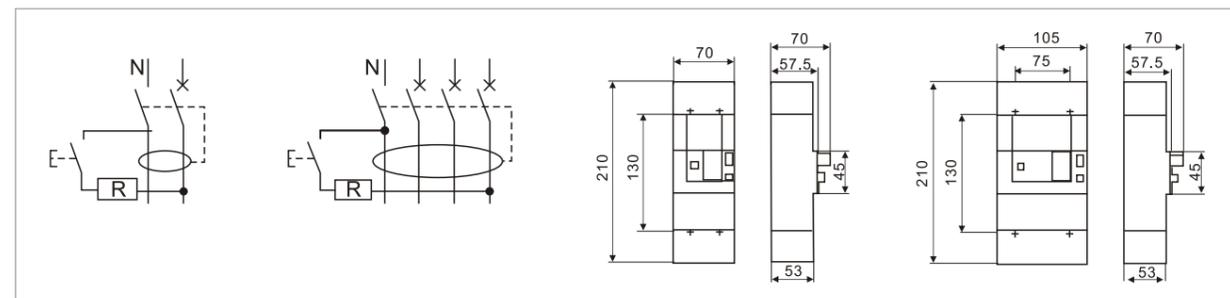
GENERAL

STG is mainly used in AC 50Hz(60Hz), rated voltage 230/400V, rated current 5A to 90A low voltage terminal distribution system. RCBO is equal with MCB+RCD function;The rated current can be adjusted as per the Customers' request; It is used for electric shock protection and human indirect contact protection, electric equipment protection when human body touching electricity or electric network leak current exceeds stipulated value,and over load and short circuit protection ; It can also be a non-frequency operator in the circuit, wildly used in the residential and commercial district.

SPECIFICATIONS

Conforming to standards	IEC61009, IEC60947-2
Mode	Electro-magnetic type ,electronic type
Rated voltage	230, 400V
Rated Current (In)	5~15A(5,10,15)A;10~30A(10,20,30)A; 10~30A(10,15,20,25,30)A 30~60A(30,45,60)A; 60~90A(60,75,90)A
Rated sensitivity IΔn	300,500(mA)
Breaking Capacity	3KA, 6KA,8KA
Pole	2P, 4P
Frequency	50/60Hz

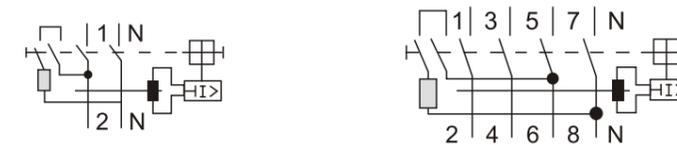
WIRING DIAGRAM / OVERALL AND MOUNTING DIMENSIONS(MM)



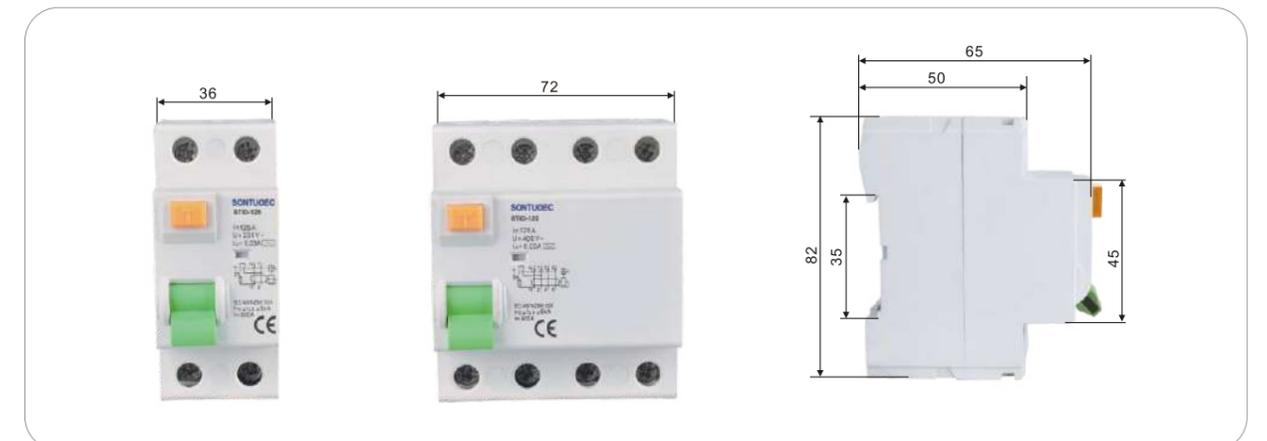
SPECIFICATIONS

	Standard	Unit	IEC/EN61008
Electrical features	Mode		Electro-magnetic type ,electronic type
	Type(wave form of the earth leakage sensed)		A,AC
	Rated current I_n	A	16,25,32,63,80,100,125
	Poles	P	2,4
	Rated voltage U_e	V	AC 230/400
	Rated sensitivity $I_{\Delta n}$	A	0.01,0.03,0.1,0.3
	Insulation voltage U_i	V	500
	Rated residual making and breaking capacity $I_{\Delta m}$	A	1250
	Short-circuit current $I_{\Delta c}$	A	6000
	SCPD fuse	A	6000
Mechanical features	Rated frequency	Hz	50/60
	Pollution degree		2
	Electrical life	t	4000
	Mechanical life	t	10000
	Protection degree		IP20
	Ambient temperature (with daily average $\leq 35^\circ\text{C}$)	$^\circ\text{C}$	-25~+40
	Storage temperature	$^\circ\text{C}$	-25~+70
Installation	Terminal connection type		Cable/ U-type busbar/pin-type busbar
	Terminal size top/bottom for cable	mm^2	35
		AWG	18-3
	Terminal size top/bottom for busbar	mm^2	35
		AWG	18-3
	Tightening torque	$\text{N}\cdot\text{m}$	2.5
In-lbs.		22	
Mounting		On DIN rail EN 6071 5(35mm)by means of fast clip device	
Connection		From top and bottom	

WIRING DIAGRAM



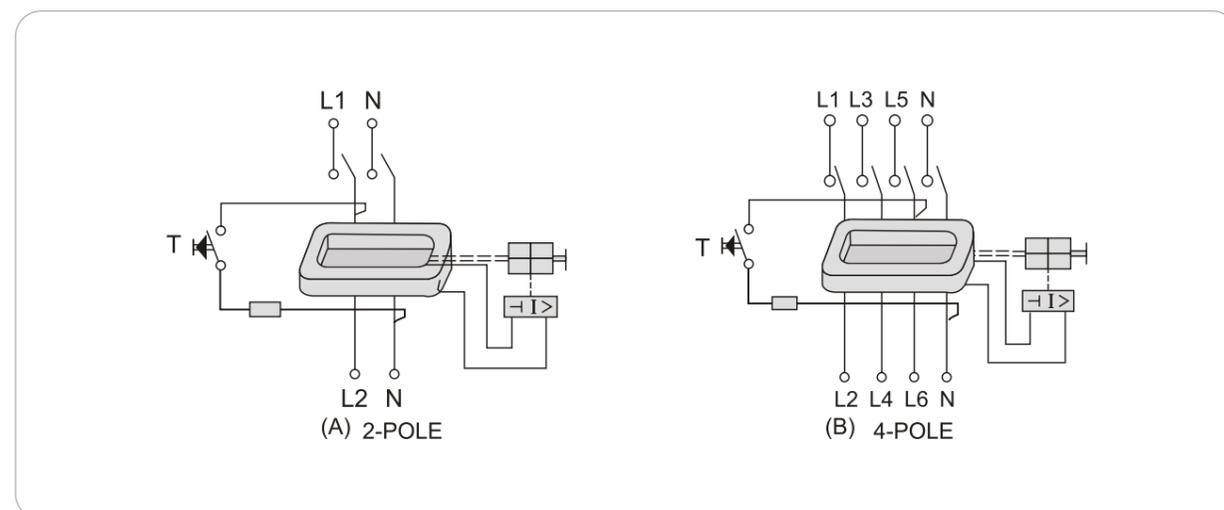
OVERALL AND MOUNTING DIMENSIONS(MM)



GENERAL

The item is in comply with standard of IEC61008-1, applying to the circuit of AC 50/60Hz, 230V single phase, 400V three phases or below it for industrial and mining enterprise, trade building, commerce and family. It is mainly used for preventing electric fire and personal casual accident caused by personal electric shock or leakage of electrified wire net, this is a current operated, fast leakage protector of pure electromagnetic type, which can break off fault circuit rapidly in order to avoid occurrence of accident. The item is precise in structure, less elements, without auxiliary power and high working reliability. The function of the switch won't be influenced by ambient temperature and lightning. The mutual inductor of the item is used to test vector differential value of passing current, and produces a relevant output power and add it to the tripper in secondary winding, if the current of vector differential value of protected circuit of personal electric shock is up to or over leakage operating current, the tripper will act and cut off so that the item will take effect of protection.

SPECIFICATIONS



STFP60-125/ST1FP60

RESIDUAL CURRENT CIRCUIT BREAKER (RCCB)

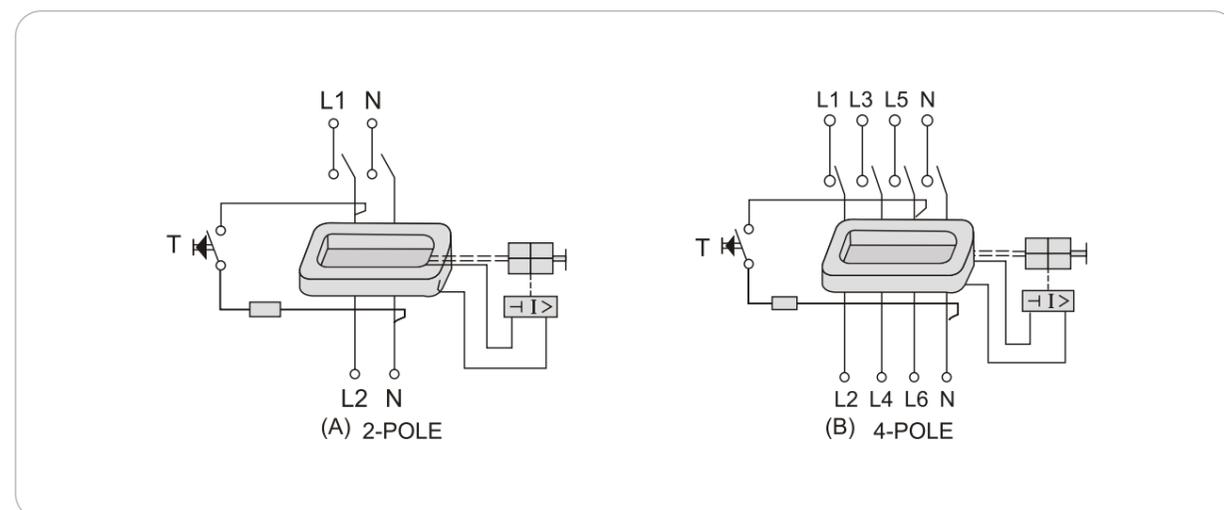


CE CB ISO9001

GENERAL

The item is in comply with standard of IEC61008-1, applying to the circuit of AC 50/60Hz, 230V single phase, 400V three phases or below it for industrial and mining enterprise, trade building, commerce and family. It is mainly used for preventing electric fire and personal casual accident caused by personal electric shock or leakage of electrified wire net, this is a current operated, fast leakage protector of pure electromagnetic type, which can break off fault circuit rapidly in order to avoid occurrence of accident. The item is precise in structure, less elements, without auxiliary power and high working reliability. The function of the switch won't be influenced by ambient temperature and lightning. The mutual inductor of the item is used to test vector differential value of passing current, and produces a relevant output power and add it to the tripper in secondary winding, if the current of vector differential value of protected circuit of personal electric shock is up to or over leakage operating current, the tripper will act and cut off so that the item will take effect of protection.

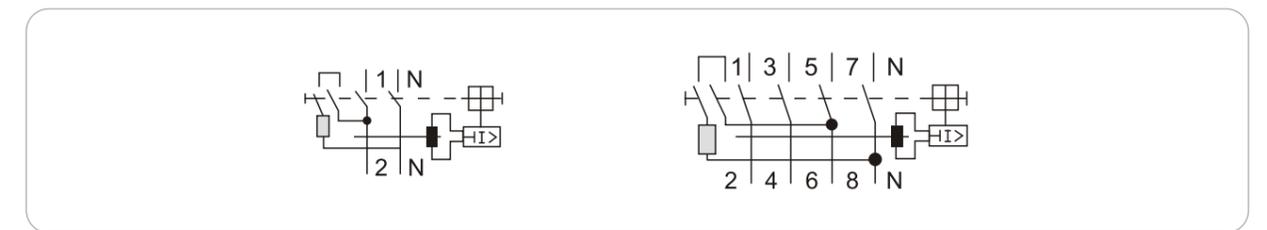
SPECIFICATIONS



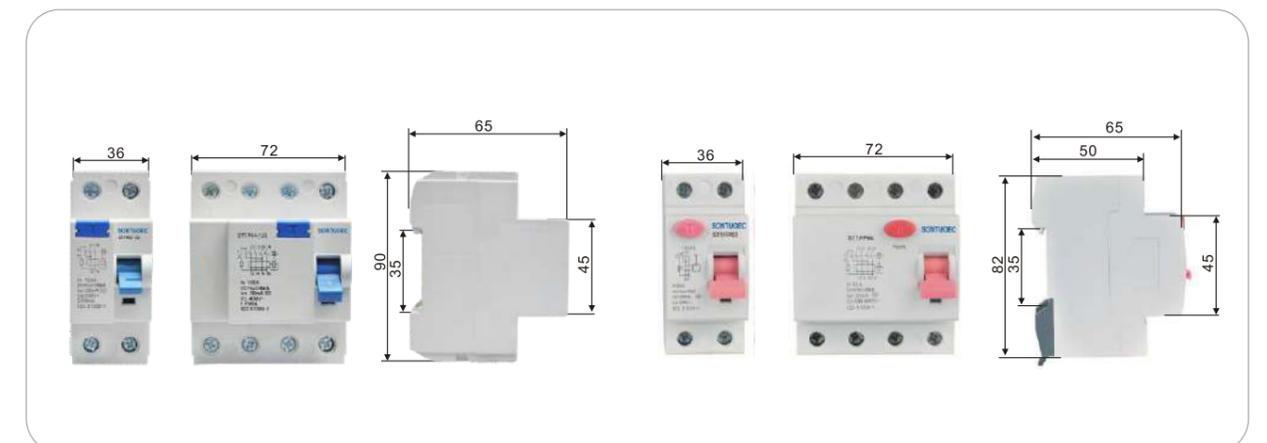
SPECIFICATIONS

	Standard	Unit	IEC/EN61008
Electrical features	Mode		Electro-magnetic type ,electronic type
	Type(wave form of the earth leakage sensed)		A,AC
	Rated current I _n	A	16,25,32,63,80,100,125
	Poles	P	2,4
	Rated voltage U _e	V	AC 230/400
	Rated sensitivity I _{Δn}	A	0.01,0.03,0.1,0.3
	Insulation voltage U _i	V	500
	Rated residual making and breaking capacity I _{Δm}	A	1250
	Short-circuit current I _{Δc}	A	6000
	SCPD fuse	A	6000
Mechanical features	Rated frequency	Hz	50/60
	Pollution degree		2
	Electrical life	t	4000
	Mechanical life	t	10000
	Protection degree		IP20
	Ambient temperature (with daily average ≤35°C)	°C	-25~+40
Storage temperature	°C	-25~+70	
Installation	Terminal connection type		Cable/ U-type busbar/pin-type busbar
	Terminal size top/bottom for cable	mm ²	35
		AWG	18-3
	Terminal size top/bottom for busbar	mm ²	35
		AWG	18-3
	Tightening torque	N*m	2.5
In-lbs.		22	
Mounting			On DIN rail EN 6071 5(35mm)by means of fast clip device
Connection			From top and bottom

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)





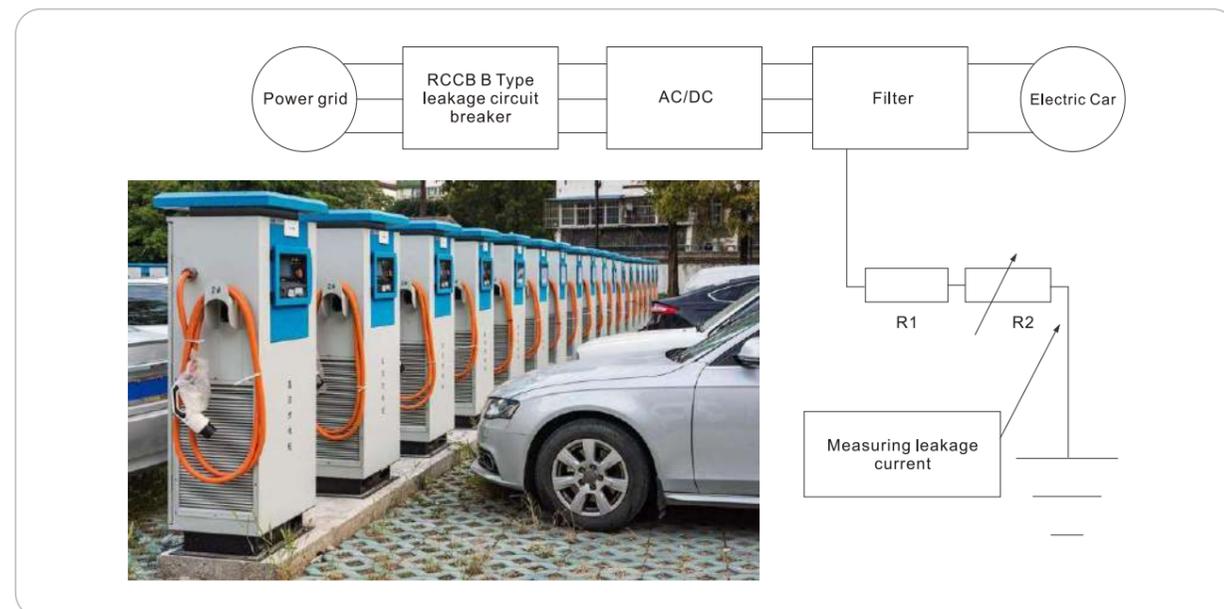
CE CB ISO9001



GENERAL

STID-B RCCB B model is worked on type A and in addition for smooth DC residual currents, residual DC currents that may result from rectifying circuits and high frequency AC residual currents. It protects in the event of continuous fault current on three phase networks. It usually is used in the field of Recharging Station, Medical Apparatus and Instruments, Controllers and Variable Speed Drives, Batter Charges and Inverters(DC)...STID-B complies with IEC/EN61008 and IEC/EN62423 standard.

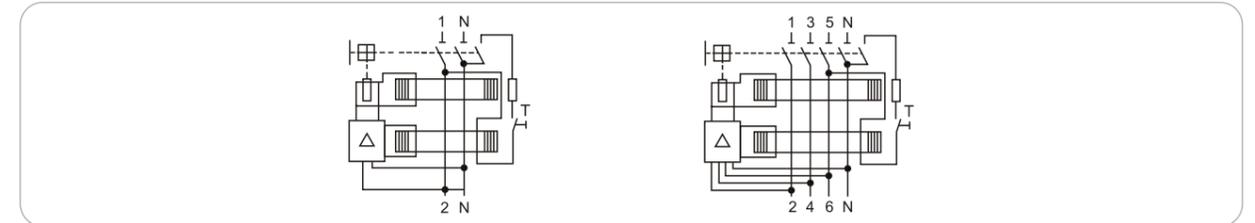
SPECIFICATIONS



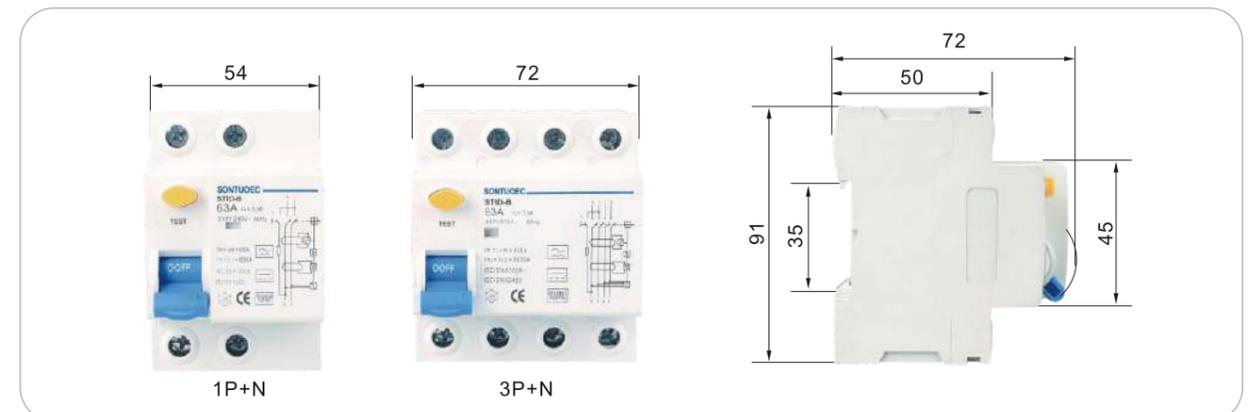
SPECIFICATIONS

	Standard	Unit	IEC/EN62423&IEC/EN61008-1
Electrical features	Type(wave form of the earth leakage sensed)		B
	Rated current I _n	A	25, 40, 63
	Poles		1P+N, 3P+N
	Rated voltage U _e	V	IP+N:230/240V; 3P+N:400/415V;
	Rated sensitivity I _{Δn}	A	0.03, 0.1, 0.3
	Insulation voltage U _i	V	500
	Rated residual making and breaking capacity I _{Δm}	A	500(I _n =25A/40A) 630(I _n =63A)
	Short-circuit current I _{Δc}	A	10000
	SCPD fuse	A	10000
	Rated Time under I _{Δn}	A	≤0.1
	Rated frequency	Hz	50
	Rated impulse withstand voltage(1.2/5.0)U _{imp}	V	4000
Mechanical features	Dielectric test voltage at ind. Fred. for 1min	KV	2.5
	Pollution degree		2
	Electrical life		2000
	Mechanical life		10000
	Fault current indicator		Yes
	Protection degree		IP20
Installation	Ambient temperature (with daily average ≤35°C)	°C	-40~+55°C
	Storage temperature	°C	-40~+70°C
	Terminal connection type		Cable/U-type busbar/Pin-type busbar
	Terminal size top/bottom for cable	mm ²	25/35
		AWG	18-3/18-2
	Terminal size top/bottom for busbar	mm ²	10/16
		AWG	18-8/18-5
	Tightening torque	N*m	2.5
In-lbs.		22	
Mounting		On DIN rail EN 60715(35mm) by means of fast clip device	
Connection		From top and bottom	

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)



RESIDUAL CURRENT CIRCUIT BREAKER (RCCB) : A/AC type



STM3-63

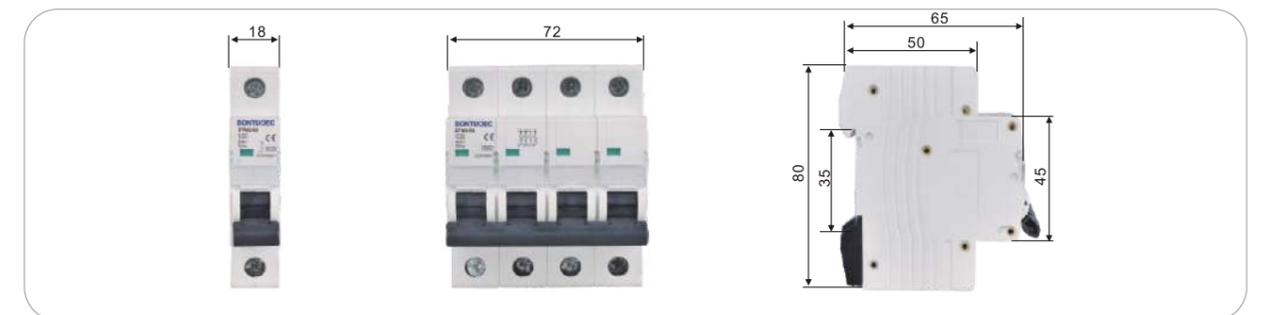
MINIATURE CIRCUIT BREAKER (MCB)



SPECIFICATIONS

	Standard	Unit	IEC/EN 60898-1
Electrical features	Rated current In	A	1,2,4,6,10,16,20,25,32,40,50,63
	Poles	P	1,2,3,4
	Rated voltage Ue	V	AC 230, 400
	Insulation voltage Ui	V	500
	Rated frequency	Hz	50/60
	Rated breaking capacity	A	3000, 4500, 6000
	Rated impulse withstand voltage(1.2/50) Uimp	V	4000
	Dielectric test voltage at ind. Freq. for 1min	kV	2
	Pollution degree		2
Mechanical features	Thermo-magnetic release characteristic		B, C, D
	Electrical life	t	4000
	Mechanical life	t	10000
	Protection degree		IP20
	Reference temperature for setting of thermal element	°C	30
Installation	Ambient temperature (with daily average ≤35°C)	°C	-5~+40(Special application please refer to temperature compensation correction)
	Storage temperature	°C	-25~+70
	Terminal connection type		Cable / Pin-type busbar
	Terminal size top / bottom for cable	mm ²	25
		AWG	18-3
	Terminal size top / bottom for busbar	mm ²	25
		AWG	18-3
Tightening torque	N*m	2	
	In-lbs.	18	
Mounting Connection			On DIN rail EN 60715(35mm)by means of fast clip device From top and bottom

WIRING DIAGRAM / OVERALL AND MOUNTING DIMENSIONS(MM)





CE CB ISO9001

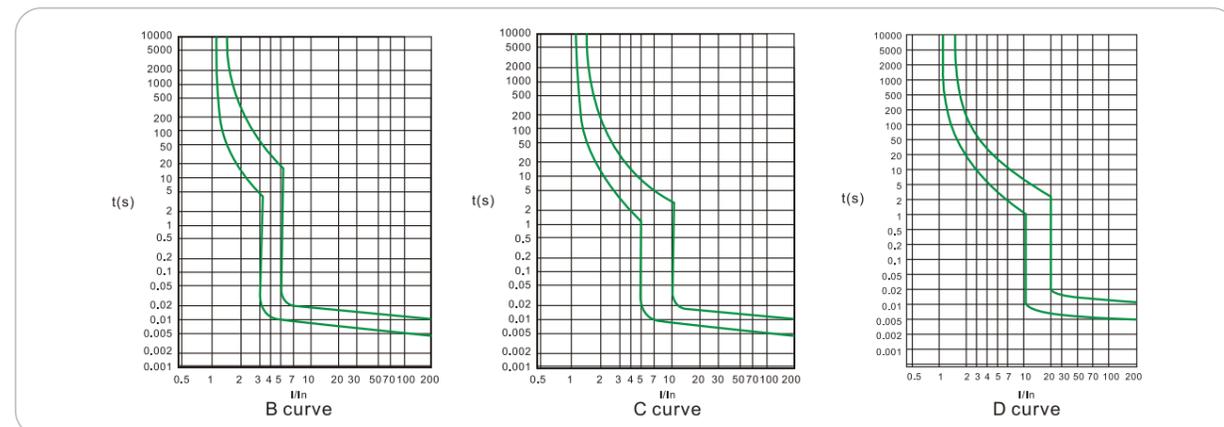
GENERAL

1. Application: For protecting cables and equipments against overload and short circuit.
2. General rules for choosing MCB.
 - a. Technical data of the network:
 - The earthing systems, short-circuit current at the circuit breaker installation point, which must always be less than the breaking capacity of this device, network normal voltage.
 - b. There are 3 curve characteristics for magnetic operation:
 - B curve (3-5 I_n) protection and control of the circuits against length cables in TN and IT systems.
 - C curve (5-10 I_n) protection and control of the circuits against overloads and short-circuits; protection for resistive and inductive loads with low inrush current.
 - D curve (10-20 I_n) protection and control of the circuits against overloads and short-circuits; protection for circuits which supply loads with high inrush current at the circuit closing (LV/LV transformers, breakdown lamps).

SPECIFICATIONS

Curves

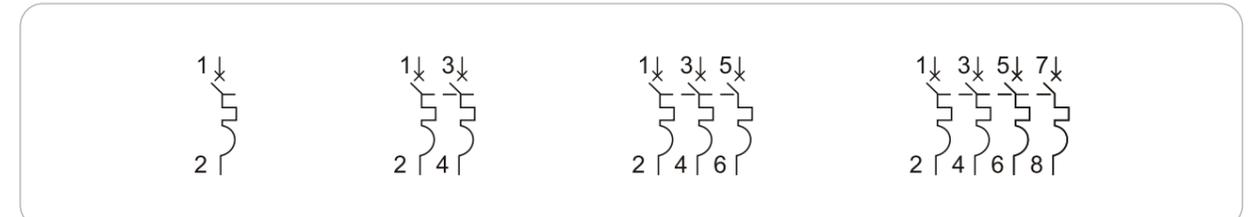
STM1-63 is of high current limiting performance to limit the destruction energy due to short circuit to the greatest extent.



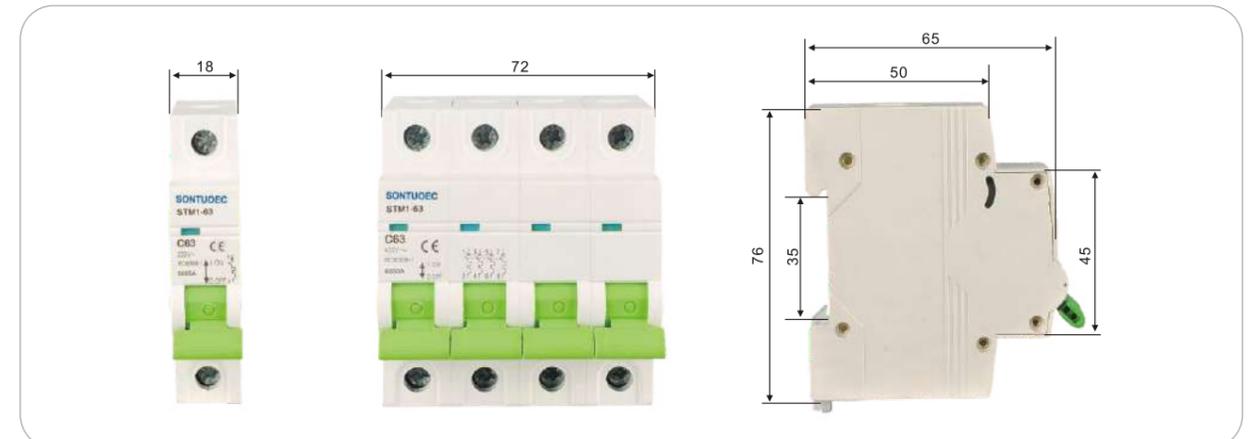
SPECIFICATIONS

	Standard	Unit	IEC/EN 60898-1
Electrical features	Rated current I _n	A	1,2,4,6,10,16,20,25,32,40,50,63
	Poles	P	1,2,3,4
	Rated voltage U _e	V	AC 230, 400
	Insulation voltage U _i	V	500
	Rated frequency	Hz	50/60
	Rated breaking capacity	A	3000, 4500, 6000
	Rated impulse withstand voltage(1.2/50) U _{imp}	V	4000
	Dielectric test voltage at ind. Freq. for 1min	kV	2
	Pollution degree		
Thermo-magnetic release characteristic			B, C, D
Mechanical features	Electrical life	t	4000
	Mechanical life	t	10000
	Protection degree		IP20
	Reference temperature for setting of thermal element	°C	30
	Ambient temperature (with daily average ≤35°C)	°C	-5~+40(Special application please refer to temperature compensation correction)
	Storage temperature	°C	-25~+70
Installation	Terminal connection type		Cable / Pin-type busbar
	Terminal size top / bottom for cable	mm ²	25
		AWG	18-3
	Terminal size top / bottom for busbar	mm ²	25
		AWG	18-3
	Tightening torque	N*m	2
		In-lbs.	18
Mounting			On DIN rail EN 60715(35mm)by means of fast clip device
Connection			From top and bottom

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)





CE CB ISO9001

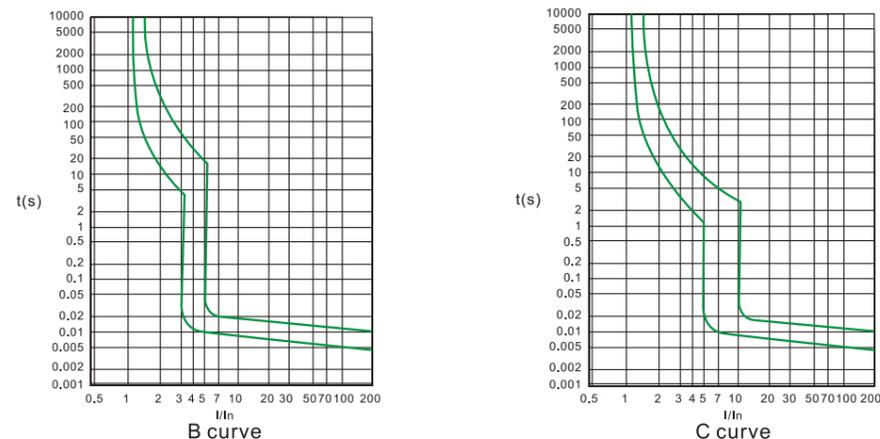
GENERAL

STD1-63 Series DC Miniature circuit breaker can quickly break the fault currents in DC power distribution system, Especially for the DC system of power projects in measurement and protection screen and electric screen between leapfrog tripping accident, the series has excellent performance, and avoid the occurrence of the fault. The products can protect the solar photovoltaic power generation in the important devices in PV module from high DC reverse current and due to failure of the inverter AC feedback current hazards, to ensure the reliable operation of solar photovoltaic power generation system. It is used on buildings and similar places the line facilities of over current protection, can also be used in less frequent break operation. And has small volume, breaking capacity, arcing distance is short, fast closing and installation is convenient.

SPECIFICATIONS

Curves

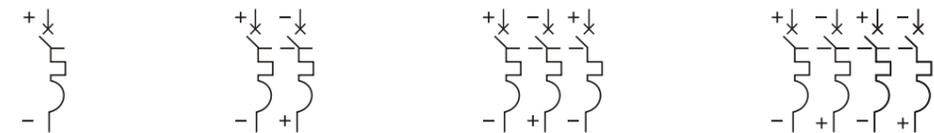
STD1-63 is of high current limiting performance to limit the destruction energy due to short circuit to the greatest extent.



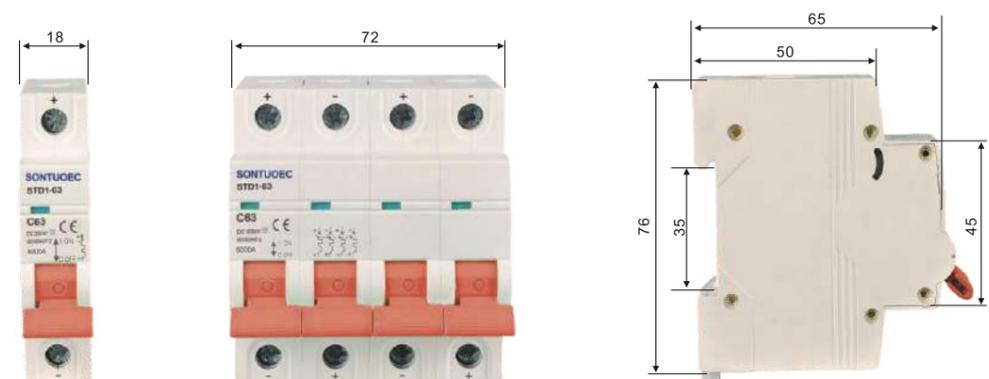
SPECIFICATIONS

	Standard	Unit	IEC/EN 60947-2
Electrical features	Rated current In	A	1,2,4,6,10,16,20,25,32,40,50,63
	Poles	P	1,2,3,4
	Rated voltage Ue	V	DC 24,48,120,250,500,750,1000
	Insulation voltage Ui	V	500
	Rated frequency	Hz	50/60
	Rated breaking capacity	A	3000, 4500, 6000
	Rated impulse withstand voltage(1.2/50) Uimp	V	4000
	Dielectric test voltage at ind. Freq. for 1min	kV	2
	Pollution degree		2
	Thermo-magnetic release characteristic		
Mechanical features	Electrical life	t	1500
	Mechanical life	t	6000
	Protection degree		IP20
	Reference temperature for setting of thermal element	°C	30
	Ambient temperature (with daily average ≤35°C)	°C	-5~+40(Special application please refer to temperature compensation correction)
	Storage temperature	°C	-25~+70
Installation	Terminal connection type		Cable / Pin-type busbar
	Terminal size top / bottom for cable	mm ²	25
		AWG	18-3
	Terminal size top / bottom for busbar	mm ²	25
		AWG	18-3
	Tightening torque	N*m	2
		In-lbs.	18
Mounting			On DIN rail EN 60715(35mm)by means of fast clip device
Connection			From top and bottom

WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)





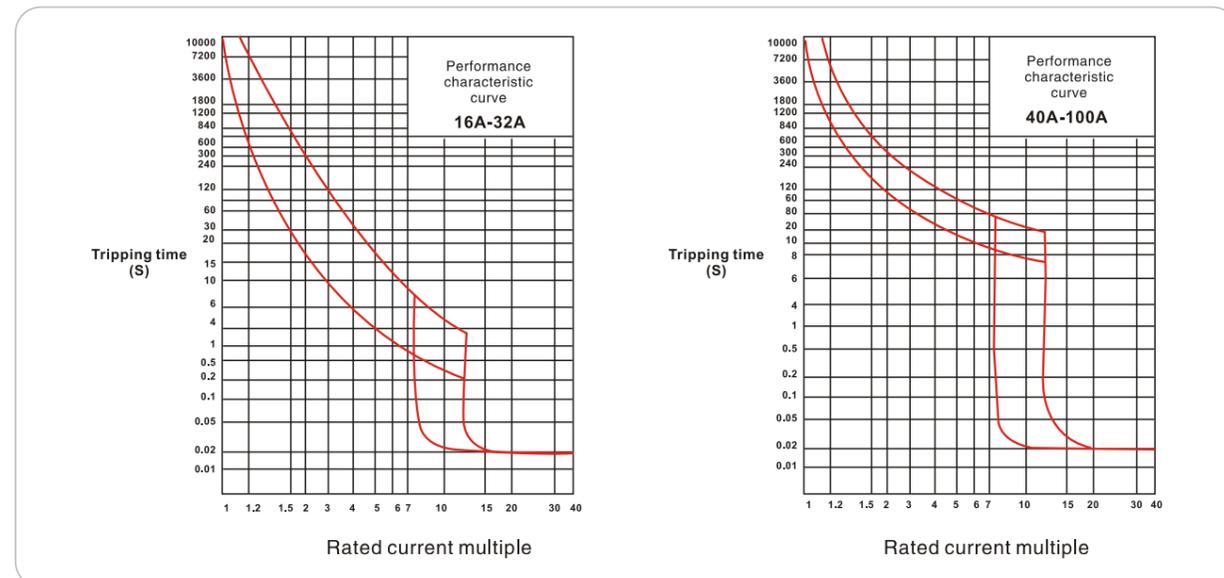
SPECIFICATIONS

	Standard	Unit	IEC/EN 60947-2
Electrical features	Rated current In	A	1,2,4,6,10,16,20,25,32,40,50,63,80,100,125
	Poles	P	1,2,3,4
	Rated voltage Ue	V	DC 24,48,120,250,500,750,1000
	Insulation voltage Ui	V	500
	Rated frequency	Hz	50/60
	Rated breaking capacity	A	6000,10000
	Rated impulse withstand voltage(1.2/50) Uimp	V	4000
	Dielectric test voltage at ind. Freq. for 1min	kV	2
	Pollution degree		2
	Thermo-magnetic release characteristic		
Mechanical features	Electrical life	t	4000
	Mechanical life	t	10000
	Protection degree		IP20
	Reference temperature for setting of thermal element	°C	30
	Ambient temperature (with daily average ≤35°C)	°C	-5~+40(Special application please refer to temperature compensation correction)
	Storage temperature	°C	-25~+70
Installation	Terminal connection type		Cable / Pin-type busbar
	Terminal size top / bottom for cable	mm ²	25
		AWG	18-3
	Terminal size top / bottom for busbar	mm ²	25
		AWG	18-3
	Tightening torque	N*m	2
		In-lbs.	18
Mounting			On DIN rail EN 60715(35mm)by means of fast clip device
Connection			From top and bottom

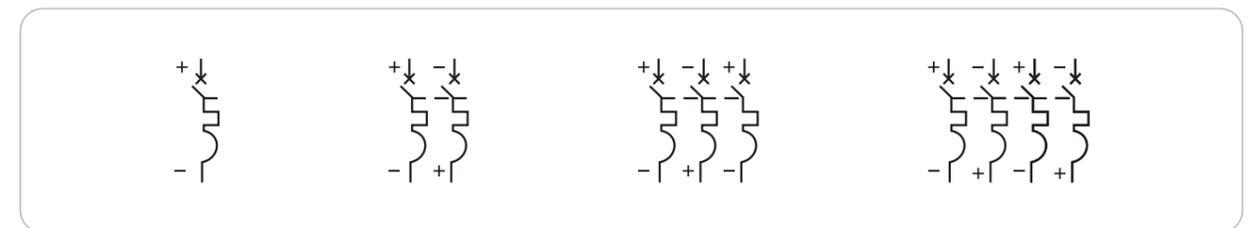
GENERAL

STD11-125 Series DC Miniature circuit breaker can quickly break the fault currents in DC power distribution system,Especially for the DC system of power projects in measurement and protection screen and electric screen between leapfrogging tripping accident, the series has excellent performance,and avoid the occurrence of the fault. The products can protects the solar photovoltaic power generation in the important devices in PV module from high DC reverse current and due to failure of the inveter AC feedback current hazards,to enture the reliable operation of solar photovoltaic power generation system. It is used on bulidnings and similar places the line facilities of over current protection,can also be used in less frequent break operation.And has small volume,breaking capacity, arcing distance is short,fast closing and installation is convenient .

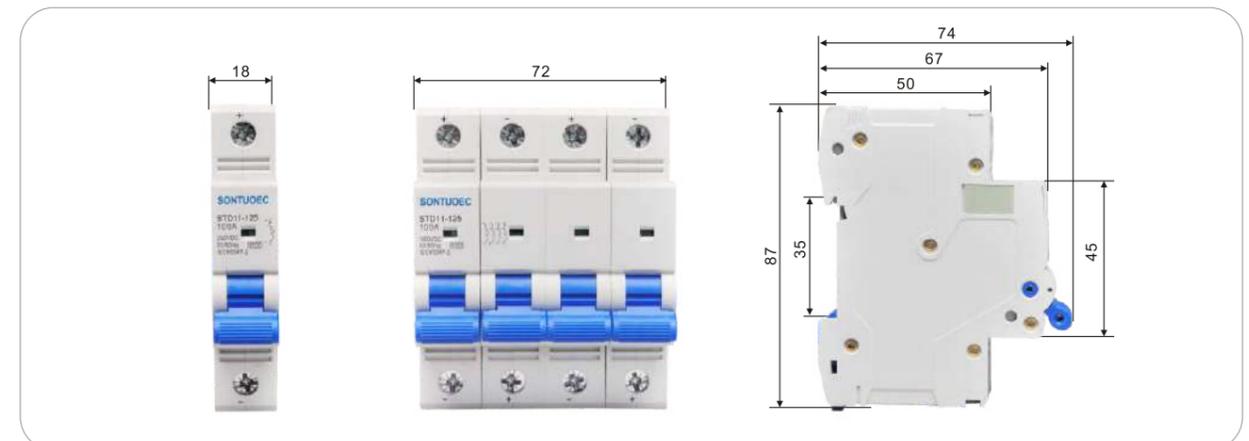
SPECIFICATIONS



WIRING DIAGRAM



OVERALL AND MOUNTING DIMENSIONS(MM)



STQC/STQL

SERIES MINI CIRCUIT BREAKER (MCB)



STQC

STQL



Plug-in type

STD6-60

SERIES MINI CIRCUIT BREAKER (MCB)



"Plug-in" Type

GENERAL

STQC/STQL Series miniature circuit breaker applies to industrial, commercial, lighting and electric machine distribution system with AC120/415V, 50/60Hz, rated working current up to 100A to protect against overload and short circuit.

SPECIFICATIONS

Standard	Unit	IEC/EN 60947-2
Number of Poles	P	1P,2P,3P,4P
Rated current	A	15,20,30,40,50,60,75,100,125
Rated Voltage	V	120 (1P), 120/240 (2P), 240/415 (3P/4P)
Breaking Capacity	A	5KA (120V); 10KA(240/415V)
Rated frequency	Hz	50/60Hz
Electrical Life	Times	6000
Mechanical Life	Times	14000
Degree of protection		IP20

WIRING DIAGRAM / OVERALL AND MOUNTING DIMENSIONS(MM)



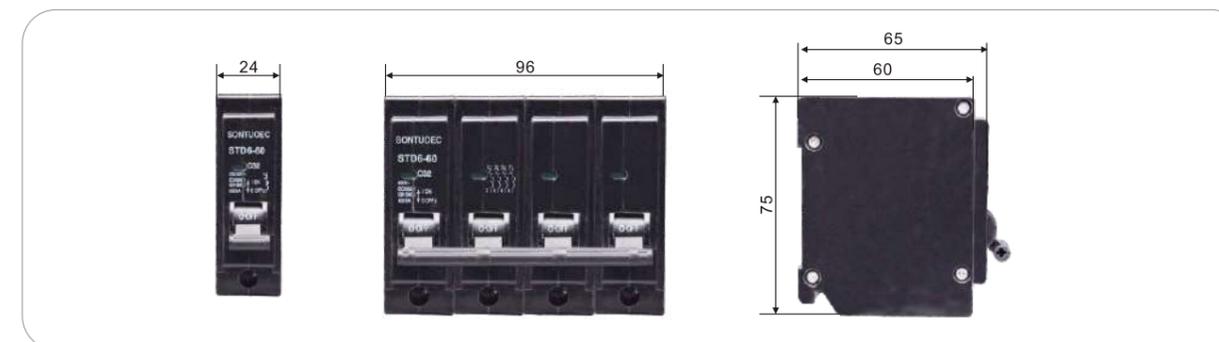
GENERAL

STD6 Series miniature circuit breaker applies to industrial, commercial, lighting and electric machine distribution system with AC120/415V, 50/60Hz, rated working current up to 100A to protect against overload and short circuit. The item is installed into plug-in type mounting base.

SPECIFICATIONS

Standard	Unit	IEC/EN 60947-2
Number of Poles	P	1P,2P,3P,4P
Rated current	A	6, 15,20,30,40,50,60
Rated Voltage	V	120 (1P), 120/240 (2P), 240/415 (3P/4P)
Breaking Capacity	A	5KA (120V); 10KA(240/415V)
Rated frequency	Hz	50/60Hz
Electrical Life	Times	6000
Mechanical Life	Times	14000
Degree of protection		IP20
Mounting		Plug-in type

WIRING DIAGRAM / OVERALL AND MOUNTING DIMENSIONS(MM)





"Plug-in" Type

GENERAL

STD7 Series miniature circuit breaker applies to industrial, commercial, lighting and electric machine distribution system with AC120/415V, 50/60Hz, rated working current up to 100A to protect against overload and short circuit. The item is installed into plug-in type mounting base.

SPECIFICATIONS

Standard	Unit	IEC/EN 60947-2
Number of Poles	P	1P,2P,3P,4P
Rated current	A	6, 15,20,30,40,50,60
Rated Voltage	V	120 (1P), 120/240 (2P), 240/415 (3P/4P)
Breaking Capacity	A	5KA (120V); 10KA(240/415V)
Rated frequency	Hz	50/60Hz
Electrical Life	Times	6000
Mechanical Life	Times	14000
Degree of protection		IP20
Mounting		Plug-in type

WIRING DIAGRAM / OVERALL AND MOUNTING DIMENSIONS(MM)



MINI CIRCUIT BREAKER (MCB)

STM2-63



STM4-63



STM5-63



STM6-63



STM7-63



DZ47-63



DZ47-125



STD32



STZ32



STB2-63



1P+N

STM8-63 (Bubar type)



STB5-63(MCB)



STIS3-125(ISOLATOR SWITCH)



MINI CIRCUIT BREAKER (MCB)



STM1

MOULDED CASE CIRCUIT BREAKER (MCCB)



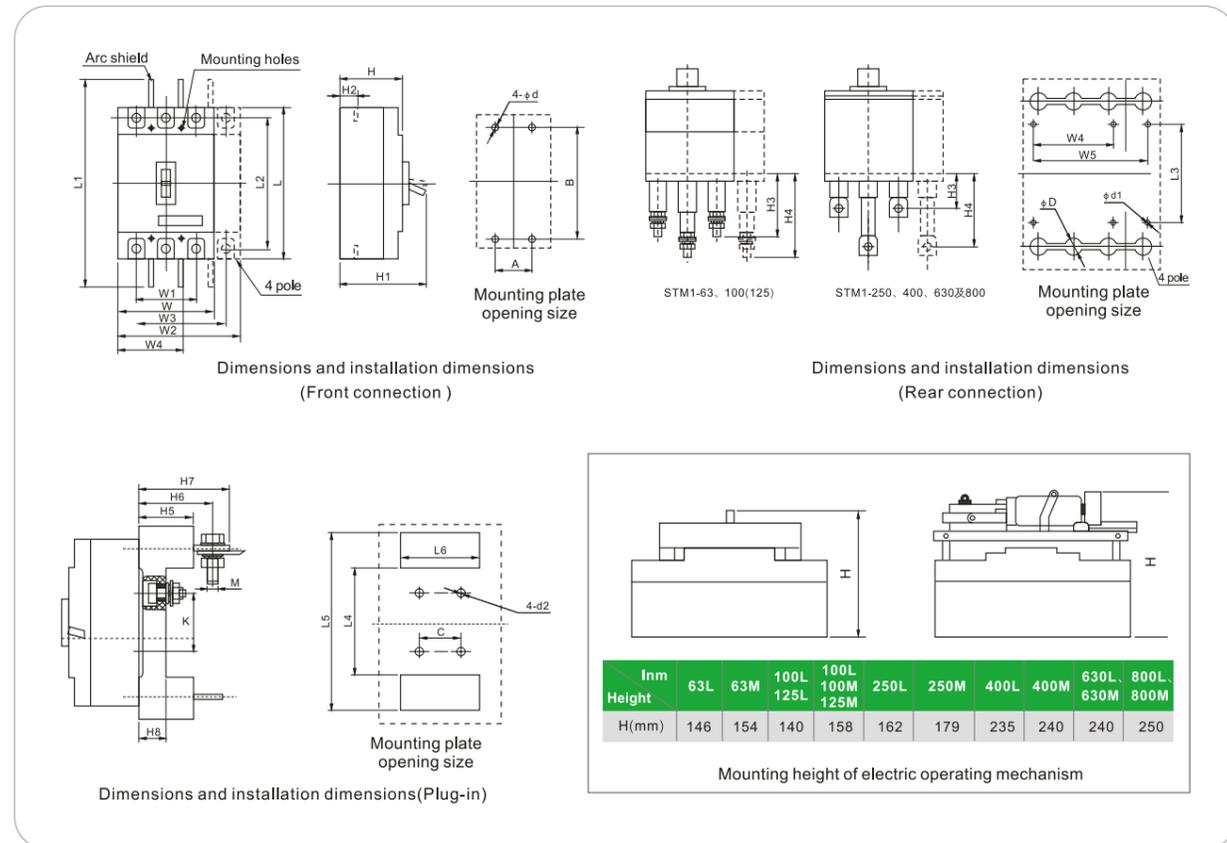
GENERAL

STM1 series rated insulation voltage of the breaker is 800v (STM1-63 is 500v), suitable for turn-on or turn off not frequency and starting a motor not frequently in the circuit of AC 50hz, rated working voltage 690V or bellow (STM1-63 is 400v)-rated working current up to 800A (STM1-800 is motor protection-free), The breakers have overload, short-circuit and under voltage protection devices, so as to protect the circuit and the power equipment against damage. It complies with IEC60947-2 standards.

SPECIFICATIONS

Type	Frame current (Inm)	Rated current (A)	Rated working voltage (V)	Rated insulation voltage	Rated limiting short-circuit breaking ability KA 400V	Rated operating short-circuit breaker ability KA 400V	Outline dimensions			Mounting dimensions		
							L	W 3P/4P	H	A	B	4-φ d
STM1-63L	63	(6), 10, 16, 20, 25, 32, 40, 50, 63	AC400V	500V	25	18	135	78	73.5	25	117	φ 3.5
STM1-63M					50	35	135	78/103	81.5			
STM1-100L	100	(10), 16, 20, 25, 32, 40, 50, 63, 80, 100	AC400V	690V	35	18	150	92	68	30	129	φ 4.5
STM1-100M					50	35	150	92/122	86			
STM1-100H					85	50	150	92/122	86			
STM1-160L	160	100, 125, 140, 160	AC400V	690V	35	22	165	107	86	35	126	φ 4.5
STM1-160M					50	35	165	107/142	103			
STM1-160H					85	50	165	107/142	103			
STM1-225L	225	100, 125, 140, 160, 180, 200, 225	AC400V	690V	35	22	165	107	86	35	126	φ 4.5
STM1-225M					50	35	165	107/142	103			
STM1-225H					85	50	165	107/142	103			
STM1-400L	400	225, 250, 315, 350, 400	AC400V	690V	42	35	257	150/198	105	44	194	φ 7
STM1-400M					65	50	257	150/198	105	44	194	φ 7
STM1-400H					100	65	257	150/198	105	44	194	φ 7
STM1-630L	630	400, 500, 630	AC400V	690V	42	35	270	182/240	110	58	200	φ 7
STM1-630M					65	50	270	182	110	58	200	φ 7
STM1-630H					100	65	270	182	110	58	200	φ 7
STM1-800M	800	630, 700, 800	AC400V	690V	75	50	275	210	103	70	243	φ 7
STM1-800H					100	65	275	210	103	70	243	φ 7

SHAPE AND INSTALLATION DIMENSIONS



Type	Items No.	STM1-63		STM1-100, 125		STM1-250		STM1-400		STM1-630		STM1-800	
		L	M	L	M	L	M	L	M	L	M	L	M
Front connection	W	78	92	107	150	182	210						
	W1	50	60	70	96	118	140						
	W2	103	122	142	198	240	280						
	W3	75	90	105	144	174	211						
	L	135	150	165	257	270	280						
	L1	169	185	295	456	476	490						
	L2	117	132	144	224	234	243						
	H	74	82	68	86	86	103	107	107	112	116		
	H1	90.5	98.5	86	104	110	127	155	155	160	168		
	H2	20.5	28	24		24		38		42	41.5		
Rear connection	H3	52	63	52	60.5	61	74						
	H4	75	103	97	120.5	121	74						
	W4	60	72	87	124	156	178						
	W5	85	102	122	172	214	-						
	φ d1	5.5	5.5	5.5	6.5	7	7						
	φ D	18	22	24	32	40	48						
	L3	87	90	93	164	164	158						
	L4	90	87	83	160	177	177						
	L5	146	172	190	282	302	-						
	L6	85	101.5	117	151	226	226						
Plug-in	H5	28	50	50.5	60.5	91	91						
	H6	36	64	71.5	83.5	92	-						
	H7	-	76	86.5	106.5	110	-						
	H8	-	17.5	17.5	21	21	-						
	K	60	62	54	128	142	142						
	C	50	60	70	60	105	105						
	φ d2	5.5	6.5	6.5	8.5	12	12						
	M	5	8	8	12	14	14						
	A	25	30	35	44	58	70						
	B	117	129	126	194	200	243						
Installation size	φ d	3.5	4.5	4.5	7	7	7						

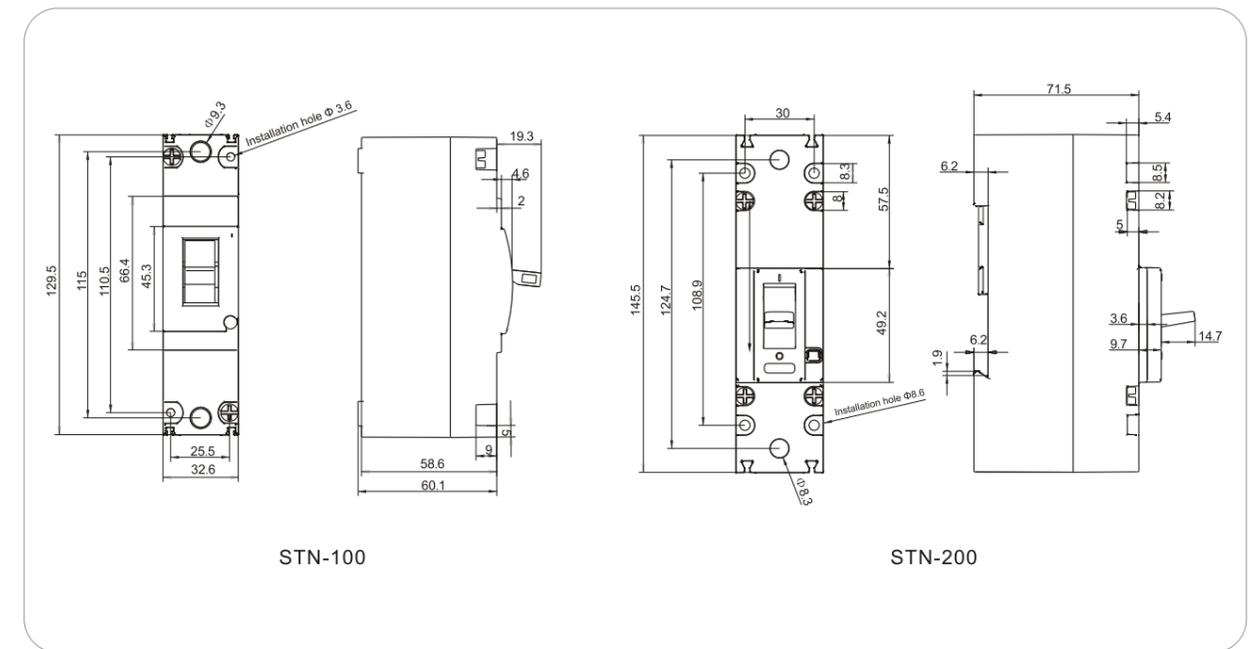
MOULDED CASE CIRCUIT BREAKER (MCCB)



GENERAL

MCCB series rated insulation voltage of the breaker is 630v ,suitable for turn-on or turn off not frequency and starting a motor not frequently in the circuit of AC 50hz, rated working voltage 690V or bellow -rated working current up to630A. The breakers have overload, short-circuit and under voltage protection devices, so as to protect the circuit and the power equipment against damage. It complies with IEC60947-2 standards.

SHAPE AND INSTALLATION DIMENSIONS



SPECIFICATIONS

Type	SBE-100	STN-100	STN-200	SGM-100E	SGM-125L	SGM-250L	
Poles	2/3	1	1	3	3/4	3/4	
Rated current (A)	5,10,15,20,30,40,50,60,75,100	5,10,15,20,30,40,50,60,75,100	100,125,150,175,200	5,16,20,25,30,32,40,50,60,63,75,100	15,16,20,25,30,32,40,50,60,63,75,100,125	100,125,140,160,175,200,225,250	
Rated voltage (V), Ue (50HZ)	600	600	1000	1000	1000	1000	
Rated insulation voltage (V), Ui (50HZ)	690	690	1500	1500	1500	1500	
Rated pulse voltage(KV) Uim p	6	10	11	6	6	6	
Ultimate breaking capacity (KA) Ics=Icu100%:							
AC(50HZ) 220/240V	25	25	100	35	100	100	
380V	14	14	50	16	55	55	
415V	10	10	50	16	55	55	
440/460V	10	10	30	16	42	42	
480/500V	7.5	7.5	20	10	42	42	
600V	2.5	2.5	15	7.5	20	20	
800V			10	5	10	10	
1000V			5	2.5	8	8	
125VDC	5	5	100	50	100	100	
250V	2.5	2.5	50	25	50	50	
500V			15	7.5	25	25	
800V			10	5	12	12	
1000V			5	2.5	8	8	
Utilization category A Hydraulic magnetic type							
life	Mechanical	8500	8500	25000	25000	20000	20000
	Electrical	1500	1500	8000	10000	10000	10000
Length(mm)	130	129.5	145.5	129.9	155	164.7	
Width(mm)	50/75	32.6	37.6	75.2	89.9/119.9	104.8/139.8	
Height(mm)	60.1	60.1	71.5	68.6	68	68	

MOULDED CASE CIRCUIT BREAKER (MCCB)





SPECIFICATIONS

Conforming to standards	IEC60947-2
Rated voltage	230, 400V
Rated Current (In)	630, 1000, 1600, 2500, 3200, 4000, 6300A
Frequency	50/60Hz
Pole	3P, 4P
Type	Fixed type, Drawout type



ST45 Motor



ST45 Terminal Block



ST45 Terminal Block(fixed)



ST45 Auxiliary



ST45 Shunt / Closed release



ST45 Mechanism



ST45 Mechanical interlock



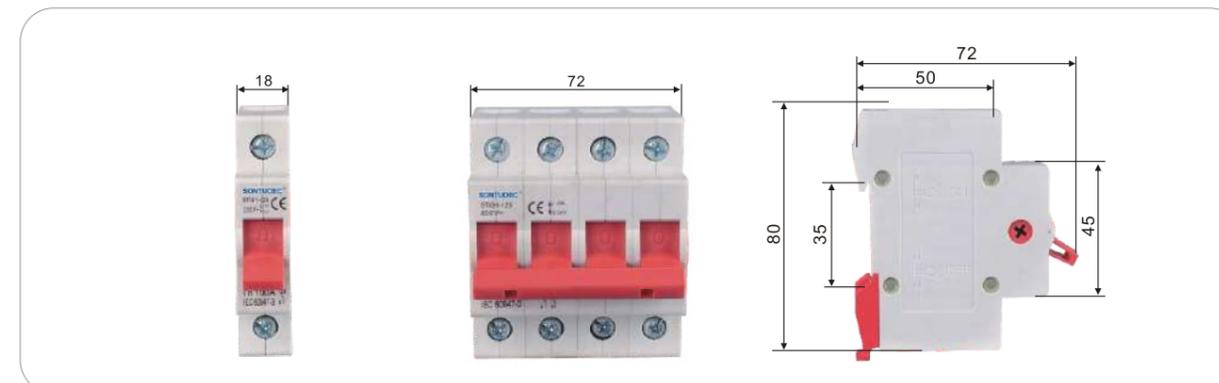
ST45 Lock



SPECIFICATIONS

	Standard	Unit	IEC/EN 60947-3
Electrical features	Poles	P	1,2,3,4
	Rated voltage Ue	V	230/400
	Rated current Ie	A	16, 32,40, 63,80, 100,125
	Rated frequency	Hz	50/60
	Rated impulse withstand voltage(1.2/50)Uimp	V	4000
	Rated short-time withstand current Icw		12Ie, 1s
	Rated making and breaking capacity		3Ie, 1.05Ue, cosΦ=0.65
	Rated short circuit making capacity		20Ie, t=0.1s
	Dielectric test voltage at ind.Freq.for 1min	kV	2.5
	Insulation voltage Ui	V	500
Mechanical features	Pollution degree		2
	Electrical life	t	1500
	Mechanical life	t	8500
	Protection degree		IP20
Installation	Ambient temperature(with daily average≤35°C)	°C	-5~+40
	Terminal size top/bottom for cable and pin-type busbar	mm ² AWG	35 18-1/0

OVERALL AND MOUNTING DIMENSIONS(MM)



STIS4-63

SERIES ISOLATOR SWITCH



STS-N

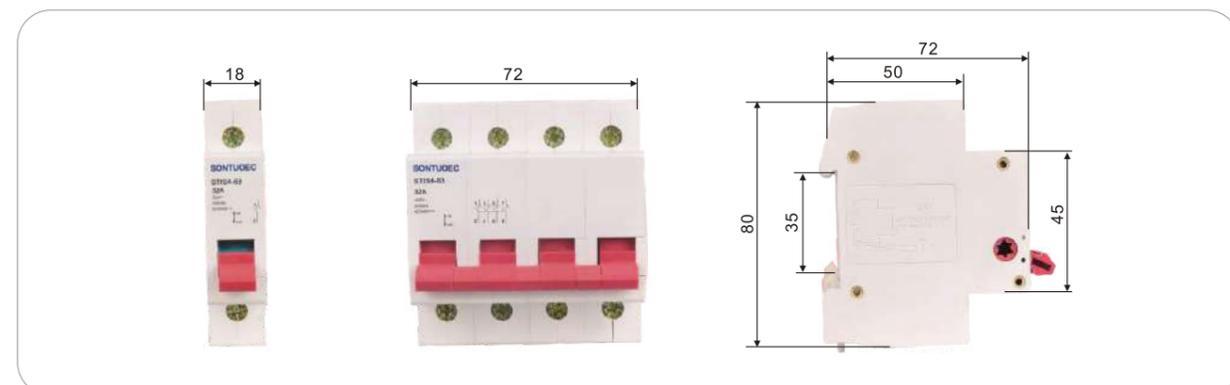
AC CONTACTOR



SPECIFICATIONS

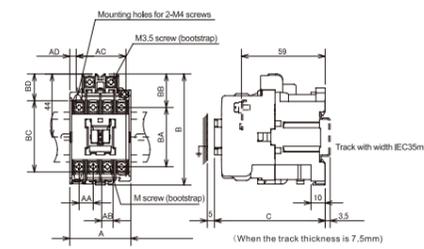
	Standard	Unit	IEC/EN 60947-3
Electrical features	Poles	P	1,2,3,4
	Rated voltage Ue	V	230/400
	Rated current Ie	A	16, 20, 25, 32, 40, 50, 63
	Rated frequency	Hz	50/60
	Rated impulse withstand voltage(1.2/50)Uimp	V	4000
	Rated short-time withstand current Icw		12Ie, 1s
	Rated making and breaking capacity		3Ie, 1.05Ue, cos Φ=0.65
	Rated short circuit making capacity		20Ie, t=0.1s
	Dielectric test voltage at ind.Freq.for 1min	kV	2.5
	Insulation voltage Ui	V	500
Mechanical features	Pollution degree		2
	Electrical life	t	1500
	Mechanical life	t	8500
	Protection degree		IP20
Installation	Ambient temperature(with daily average ≤35℃)	℃	-5~+40
	Terminal size top/bottom for cable and pin-type busbar	mm ² AWG	35 18-1/0

OVERALL AND MOUNTING DIMENSIONS(MM)

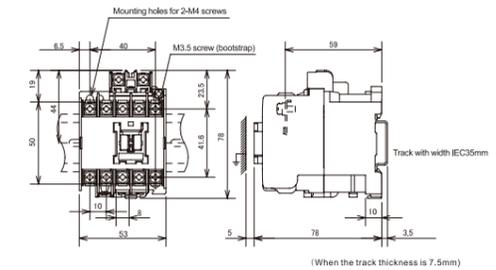


OUTLINE AND INSTALLATION DIMENSION

STS-N10(CX), N11(CX), N18(CX)

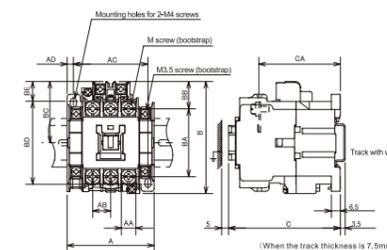


STS-N12(CX)

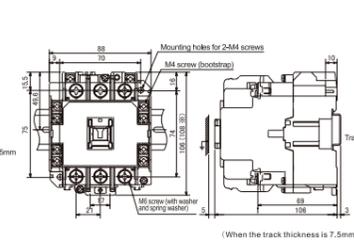


Type	A	AA	AB	AC	AD	B	BA	BB	BC	BD	C	M	Weight(kg)
STS-N10(CX), N11(CX)	43	10	8	35	4.5	78	41.6	23.5	50	19	78	M3.5	0.3
STS-N18(CX)	43	13	10.5	30	5.5	79	49	20	60	13	81	M4	0.33

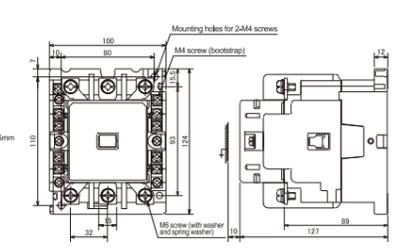
STS-N20(CX)~N35(CX)



STS-N50(CX), N65(CX)



STS-N80, N95



Type	A	AA	AB	AC	AD	B	BA	BB	BC	BD	BE	C	CA	M	Weight(kg)
STS-N20(CX)	63	10.5	13	54	4.5	81	49	20	44	60	14	81	59	M4	0.38
STS-N21(CX)	63	10.5	13	54	4.5	81	49	20	44	60	14	81	59	M4	0.40
STS-N25(CX), N35(CX)	75	13	16.7	65	5	89	55	20.5	48	70	13	91	62.5	M5	0.52

MAIN TECHNICAL PARAMETERS

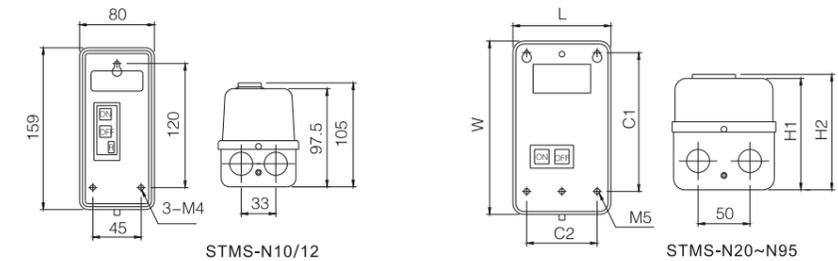
Type	N10	N11	N12	N18	N20	N21	N25	N35	N50	N65	N80	N95	
Rated insulation voltage (V)	690												
Rated continuous current Ith (A)	20	20	20	25	32	32	50	60	80	100	135	150	
Three phase rated capacity (kW) (AC-1 level)	220~240V	7.5	7.5	7.5	9.5	12	12	18	20	30	35	50	55
	380~440V	7	8.5	8.5	13	20	20	30	35	50	65	85	90
	500V	7	9.5	9.5	13	25	25	40	50	65	85	110	120
	690V	7	8	8	11	30	30	50	60	80	100	135	150
Rated working current (A) (AC-1 level)	220~240V	20	20	20	25	32	32	50	60	80	100	135	150
	380~440V	11	13	13	20	32	32	50	60	80	100	135	150
	500V	8	11	11	16	32	32	50	60	80	100	135	150
	690V	6	8	8	10	32	32	50	60	80	100	135	150
Three phase rated capacity (kW) (AC-3 level)	220~240V	11	13	13	18	22	22	30	40	55	65	85	105
	380~440V	9	12	12	16	22	22	30	40	50	65	85	105
	500V	7	9	9	13	17	17	24	32	38	60	75	85
	690V	5	7	7	9	9	9	12	17	26	38	52	65
Rated capacity (kW) (AC-4 level) Electrical durability 200000 times	220~240V	0.75	1.1	1.1	1.5	2.2	2.2	3	3.7	5.5	7.5	7.5	11
	380~440V	1.1	1.5	1.5	2.2	3.7	3.7	5.5	5.5	7.5	11	15	18.5
	500V	1.1	1.5	1.5	2.2	3.7	3.7	5.5	5.5	7.5	11	15	18.5
	690V	1.1	1.5	1.5	2.2	3.7	3.7	5.5	5.5	7.5	11	15	18.5
AC-4 maximum rated working current (A)	440V	6	9	9	9	13	13	17	24	32	47	62	75
Applicable capacity of three-phase capacitors (kvar) Maximum 120 times/h 100000 times (Surrounding temperature 40°C)	220~240V	2.2	3	3	4	5.5	5.5	8.5	12	20	20	35	35
	380~440V	2.3	4	4	6	10	10	14	20	40	40	60	60
	550V	4	5	5	6	10	10	14	20	30	35	48	60
	690V	3.3	4.5	4.5	5.5	10	10	14	20	30	40	50	60
Making and breaking capacity (A) three-phase CoS φ=0.35 240V/440V	Connect	110/110	130/120	130/120	180/180	220/220	220/220	300/300	400/400	550/460	650/620	850/850	1050/1050
	Breaking	110/72	120/100	120/100	180/130	220/220	220/220	300/240	400/320	550/460	650/620	800/750	930/930
Operation frequency (times/hour)	AC-1 level	1800											
	AC-3 level	1800											
	AC-4 level	600											
Operation time (ms)	Coil ON → Main contact ON	15	15	15	15	15	15	15	25	27			
	Coil OFF → Main contact OFF	10	10	10	10	10	10	10	53	75			
Coil power consumption	Start (VA)	45	60	90	110	115	210						
	吸持 (VA) Absorption (VA)	7	10	15	13	20	23						
	Power (W)	2.4	3	4	4.3	2.2	2.8						
	Working voltage range	85%~110% 85%~110% of rated coil											
Mechanical durability (million cycles)	10												
Vibration	10~55Hz 19.6m/s ² Below												
Impact	49m/s ² Below												
Environmental temperature (°C)	-25~+55												
Suitable for wire size (mm ²)	Main circuit (contactor)	1~2.5	1~6	2~16	2~25	2~50	2~60						
	Main circuit (thermal overload relay)	1~2.5	1~6	2~16	2~25	2~25							
	control circuit	1~2.5											
Connection conductor width (mm)	-											15	



MAIN TECHNICAL PARAMETERS

Type	STMS-N10/12	STMS-N18	STMS-N20	STMS-N21	STMS-N25	STMS-N35	STMS-N50	STMS-N65	STMS-N80	STMS-N95		
KW/HP(AC-3) Rated power(AC-3) IEC60947-4	220V	2.2/3	2.7/3.5	3.7/5	4/5.5	4/5.5	5.5/7.5	7.5/10	15/18.5	18.5/22	22/30	30/35
	380V	2.7/3.5	4/5.5	5.5/7.5	7.5/10	7.5/10	11/15	15/18.5	22/25	25/30	37/45	45/55
Rated current(AC-3) GB14048.4	220V	11/13	18	20	20	26	35	50	65	80	95	95
	380V	7/9	13	20	20	25	32	50	65	80	95	95
Rated heating current(A)	20	25	32	50	60	80	100	135	150			
Rated insulated voltage(V)	660						660					
Auxiliary contact AC-15	Contact	Standard	1NO	1NO+1NC	2NO+2NC							
	Rated current(A)	220V	1.6									
		380V	0.95									
Enclosure rating	IP30											
Mechanical life	1000					500						

SHAPE AND INSTALLATION DIMENSIONS



Type	L	W	H1	H2	C1	C2
STMS-N20/21	104	170	110	115	135	76
STMS-N25/35	135	225	126	131	155	95
STMS-N50/65	160	270	145	150	210	120
STMS-N80/95	190	300	163	168	250	150



GENERAL

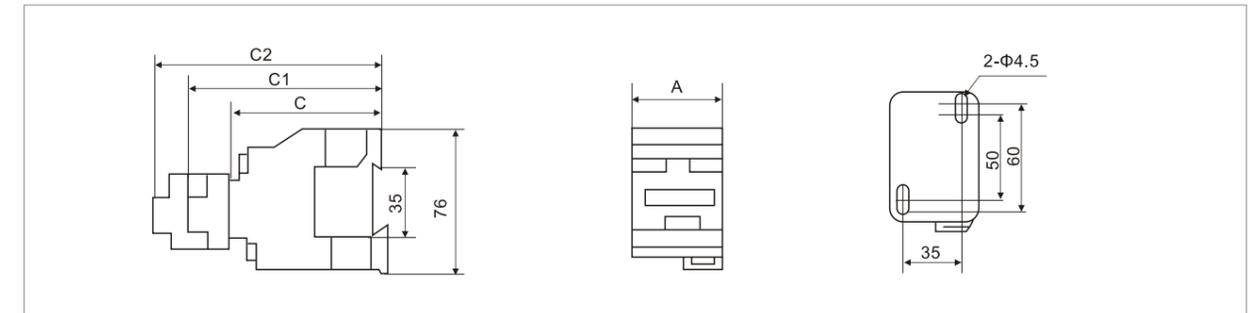
STC1-N series AC Contactor is suitable for using in the circuits the rated voltage up to 660V AC 50Hz or 60Hz, rated current up to 95A, for making & breaking, frequently starting & controlling the AC motor. AC Contactor Combined with the auxiliary contact block, timer delay & machine- interlocking device etc, it becomes the delay contactor, mechanical interlocking contactor, star-delta starter. With the thermal relay, it is combined into the electromagnetic starter. AC Contactor is produced according to IEC 60947-4-1

SPECIFICATIONS

Type	Rated insulation voltage(V)	Conventional thermal current(A)	Rated operation current(A)	Control power(kw)					No. of contacts	Installation Method
				220V	380V	415V	440V	660V		
STC1-N0910	660	20	9	2.2	4	4	4	5.5	3P+1NO	1 with two screws 235mm din rail
STC1-N0901	660								3P+1NC	
STC1-N1210	660	20	12	3	5.5	5.5	5.5	7.5	3P+1NO	
STC1-N1201	660								3P+1NC	
STC1-N1810	660	32	18	4	7.5	9	9	9	3P+1NO	
STC1-N1801	660								3P+1NC	
STC1-N2510	660	40	25	5.5	11	11	11	15	3P+1NO	
STC1-N2501	660								3P+1NC	
STC1-N3210	660	50	32	7.5	15	15	15	18.5	3P+1NO	
STC1-N3201	660								3P+1NC	
STC1-N4011	660	60	40	11	18.5	22	22	30	3P+NO+NC	1 with three screws 235mm din rail
STC1-N5011	660	80	50	15	22	25	30	33		
STC1-N6511	660	80	65	18.5	30	37	37	37		
STC1-N8011	660	125	80	22	37	45	45	45		
STC1-N9511	660	125	95	25	45	45	45	45		

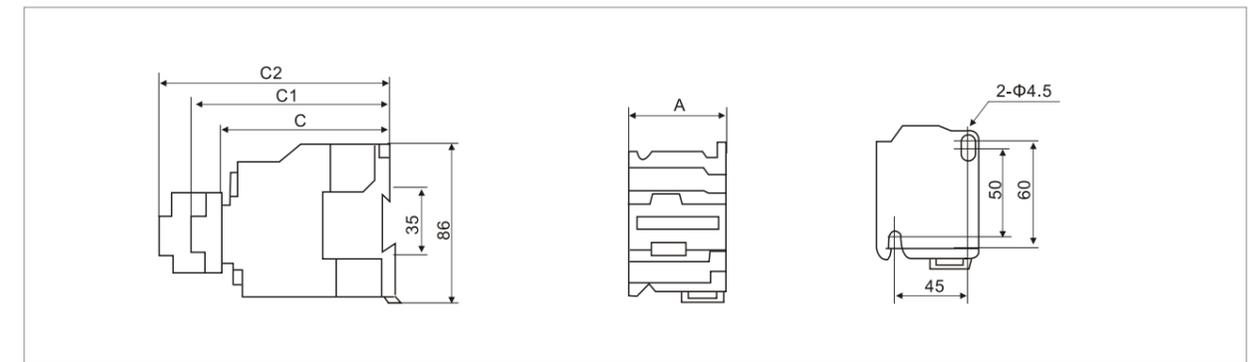
EXTERNAL DIMENSIONS AND CONTACT CONFIGURATIONS

STC1-D09,12,18



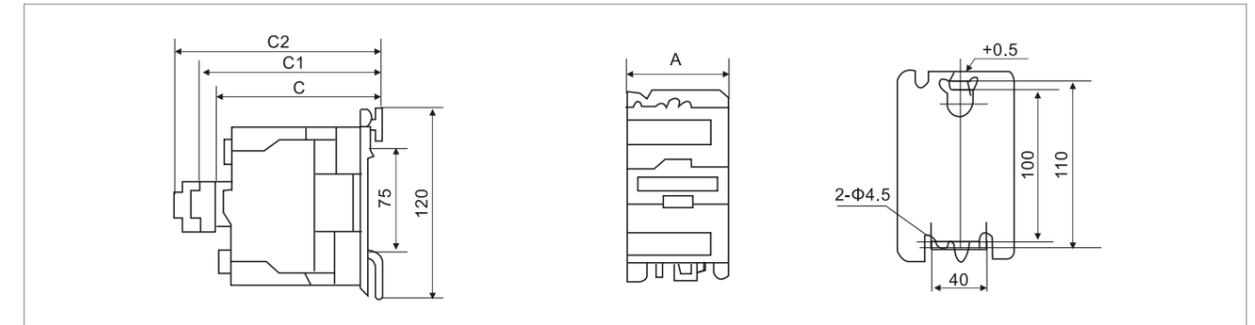
Type	A	C	C1	C2
STC1-D09,12	47	82	115	134
STC1-D18	47	87	120	139

STC1-D25~32



Type	A	C	C1	C2
STC1-D25	59	97	130	149
STC1-D32	59	102	135	154

STC1-D40~95



Type	A	C	C1	C2
STC1-D40,50,65	79	116	149	168
STC1-D80,95	87	127	160	179



GENERAL

STC1-D series AC Contactor with novel appearance and compact structure is suitable for using starting & controlling the AC motor frequently, switching on and off the circuit at a long distance. It is used in combination with thermal relay to compose a magnetic motor starter. Standard: IEC 60947-4-1.

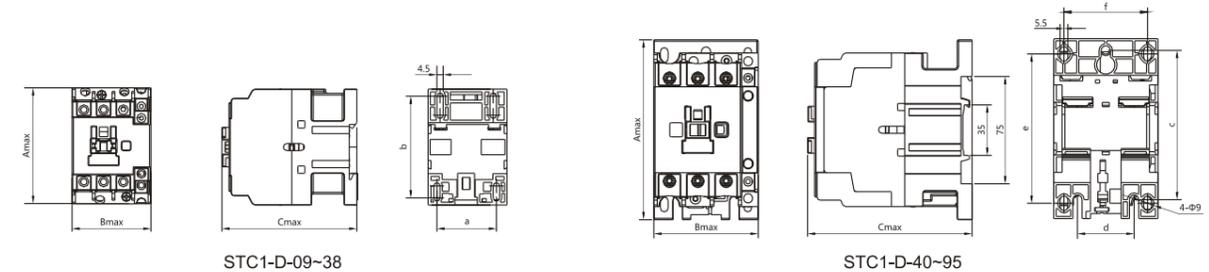
OPERATING AND INSTALLATION CONDITIONS

Type	Operating and Installation Conditions
Installation category	
Pollution level	3
Certification	CE
Protection degree	STC1-D-09~38 is IP20; STC1-D-40~95 is IP10
Ambient temperature	limit of temperature: -35°C~+70°C, normal temperature: -5°C~+40°C, The average no more than +35°C within 24 hours. If not in normal operating temperature range, please refer to "Instructions for abnormal environment"
Altitude	≤2000m
Ambient temperature	The maximum temperature of 70 degrees, the air relative humidity not exceed 50%, under lower temperature can allow for higher relative humidity. If the temperature is 20°C, the air relative humidity could up to 90%, Special measures should be taken for occasional condensation due to humidity changes.
Installation position	Inclination between installation surface and vertical surface should not exceed ±5°
Shock vibration	Products should be installed and used without significant shake, shock and vibration place.

MAIN TECHNICAL PARAMETERS

Type	09	12	18	25	32	38	40	50	65	80	95	
Poles	3P											
Rated insulation voltage(Ui)	V 690											
Rated operating voltage(Ue)	V 380/400, 660/690											
Rated thermal current(Ith) , AC-1	20	20	32	40	50	50	60	80	80	125	125	
Rated operation current(Ie)	AC-3,380/400V	A 9	12	18	25	32	38	40	50	65	80	95
	AC-3,660/690V	A 6.6	8.9	12	18	22	22	34	39	42	49	49
	AC-4,380/400V	A 3.5	5	7.7	8.5	12	14	18.5	24	28	37	44
Rated operational power(Pe)	AC-3,380/400V	kW 4	5.5	7.5	11	15	18.5	18.5	22	30	37	45
	AC-3,660/690V	kW 5.5	7.5	10	15	18.5	18.5	30	33	37	45	45
	AC-4,380/400V	kW 1.5	2.2	3.3	4	5.4	5.5	7.5	11	15	18.5	22
AC-4,660/690V	kW 1.1	1.5	3	3.7	5.5	6	7.5	10	11	15	18.5	
Mechanical life	10000 times											
Electrical life	AC-3	1200			1000			900			650	
	AC-4	110			90			65		11		
Frequency of operation	AC-3	22			17			11				
	AC-4	1200			600			300				
Connecting capability of main circuit terminal												
Flexible wire	1 wire	mm² 1...4			1.5...6			2.5...25			4...50	
No terminal	2 wire	mm² 1...4			1.5...6			2.5...16			4...25	
Flexible wire	1 wire	mm² 1...4			1...6			2.5...25			4...50	
With terminals	2 wire	mm² 1...2.5			1...4			2.5...10			4...16	
Hard wire	1 wire	mm² 1...4			1.5...6			1.5...10			2.5...25	
No terminal	2 wire	mm² 1...4			1.5...			2.5...10			4...25	
Fastening torque	N·m	1.2			1.8			5			9	
Coil												
Rated control voltage(Us)	50Hz	V 24, 36, 48, 110, 127, 220/230, 240, 380/400, 415, 440										
	50/60Hz	V 24, 36, 48, 110, 127, 220/230, 240, 380/400, 415, 440										
Allowed control circuit voltage(Us)	Operation	V Installation inclination angle ±22.5°: 85%~110%Us ; Installation inclination angle±5°: 70%~120%										
	Release	V Installation inclination angle ±22.5°: 20%~75%Us ; Installation inclination angle±5°: 20%~65%										
Power consumption of coil	Actuation	VA 60			70			200			200	
	Keep	VA 6-9.5			6-9.5			15-20			15-20	
	Consumption	W 1-3			1-3			6-10			6-10	
Auxiliary head composition 3NO+1NO 1NC												
Auxiliary contacts specification	A 11											
Rated thermal current (Ith)	A 10											
Rated operating voltage(Ue)	AC	V 380										
	DC	V 220										
Rated control capac	AC-15	VA 360										
	DC-13	W 33										

OUTLINE AND INSTALLATION DIMENSION



Type	Amax	Bmax	Cmax	a	b	c	d	e	f
STC1-D-09, 12, 18	74.5	45.5	85.5	35	50/60	-	-	-	-
STC1-D-25, 32, 38	83	56.5	97	40	50/70	-	-	-	-
STC1-D-40, 50, 65	127.5	74.5	117	-	-	105	40	100/110	59
STC1-D-80, 95	127.5	85.5	125.5	-	-	105	40	100/110	67



GENERAL

This series of thermal relay can be used in the circuit of 50Hz or 60Hz, rated insulation voltage 660V, rated current 93A for protecting the phase break when the electric motor is overload. The relay has different mechanism and temperature compensation & can be plugged in LC1-D/CJX2 series AC contact

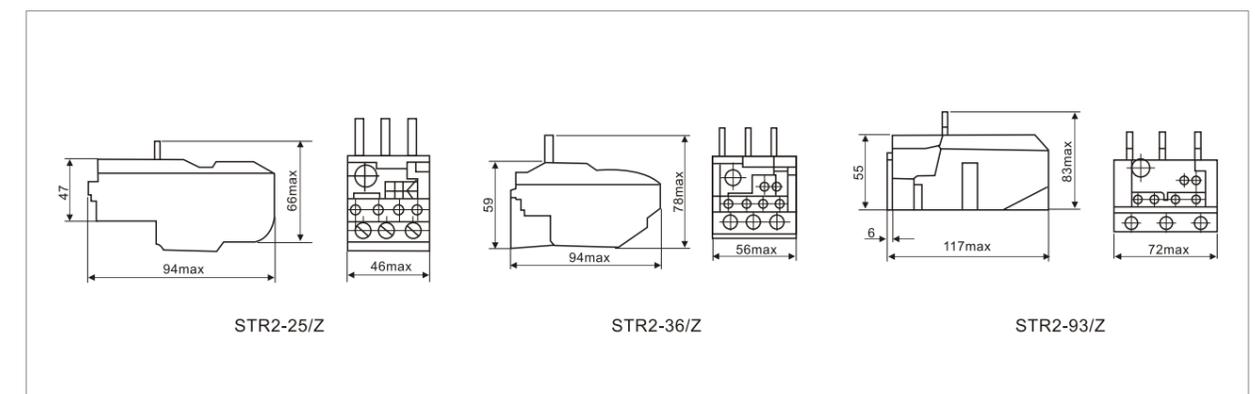
SPECIFICATIONS

Product Name	Thermal Overload Relay
Model	WR2
Material	Plastic, Electronic Components
Thermal Contact	1 NO+1NC
Thermal Relay Rated Current	0.1A-25A
Adjustable Current Range(A) Setting Range	1A-1.6A 1.6A-2.5A 4A-6A 5.5A-8A 7A-10A 9A-13A 12A-18A 17A-25A Pls note the current range when place the order
Ui	
Frequency	660V
Tripping Class	50/60Hz
Total Size(Approx)	7x4.5x7.5cm / 2.8"x1.8x2.95"(L*W*H)
Color	As Picture Shown

MAIN TECHNICAL PARAMETERS

Model	Rated current	NO.	Setting Range(A)	For contactor
STR2-25	25	1301	0.1~0.12~0.14~0.16	STR2-9~32
		1302	0.16~0.19~0.22~0.25	
		1303	0.25~0.3~0.35~0.4	
		1304	0.4~0.05~0.63	
		1305	0.63~0.8~0.9~1	
		1306	1~1.2~1.4~1.6	
		1307	1.6~1.9~2.2~2.5	STR2-12~32
		1308	2.5~3~3.5~4	
		1310	4~5~6	
		1312	5.5~6~7~8	
		1314	7~8~9~10	
		1316	9~11~13	
		1321	12~14~16~18	
STR2-36	36	1322	17~21~25	STR2-12~32
		1353	23~32	STR2-25/32(LC1-D25/32)
		2353	23~26~29~32	STR2-32
2355	28~32~36			
STR2-93	93	2355	30~40	STR2-40~95
		3322	23~26~32	
		3353	17~25	
		3355	30~33~36~40	
		3357	37~41~46~50	
		3359	48~51~60~65	
		3361	55~0~65~70	
		3363	63~71~80	
STR2-140	140	3365	80~85~93	STR2-50~95
			80~104	STR2-65~95
			95~120	STR2-80/STR2-95
			110~140	STR2-95

SHAPE AND INSTALLATION DIMENSIONS





GENERAL

SLE1 magnetic starter is mainly applied to circuit of AC 50/60Hz, voltage up to 660V for far distance making and breaking circuit and frequently starting and controlling motor it has the features of small volume light weight, low power consumption, high efficiency, safe and reliable performance ect.

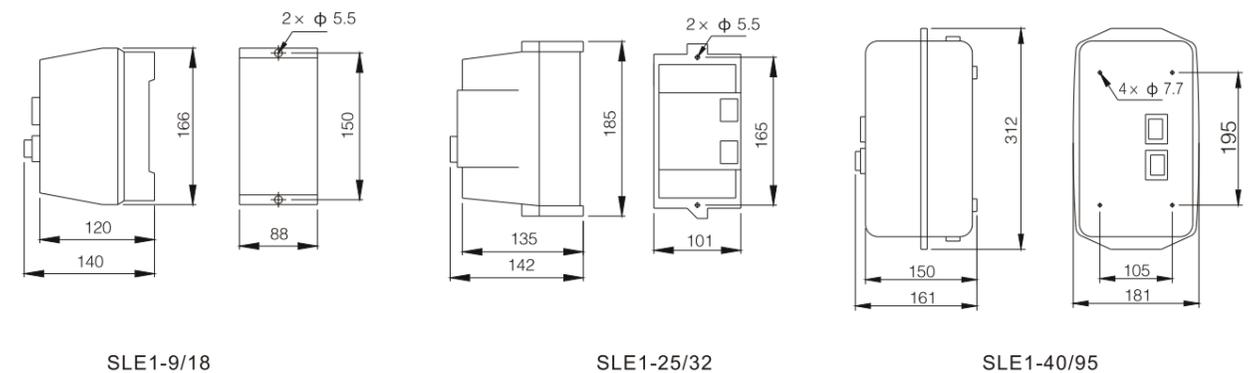
SPECIFICATIONS

Product mode No. and specificatiol	SLE1-09 and 12	Double in sulated, protected toIP429(3) or, F659(4)
Enclosure	SLE1-18 and 25	Double in sulated, protected toIP427(3) or, F557(4)
	SLE1-32 and 95	Metal, IP65 to 559
Control(2 push buttons moufited on enclosure cover)	SLE1-09 and 95	1 Green start button '1' , 1 Red stop/Teset buttion "O"
Connections	SLE1-09 and 95	Electrical power and control recircuit connections

MAIN TECHNICAL PARAMETERS

Type	SLE1-9	SLE1-12	SLE1-18	SLE1-25	SLE1-32	SLE1-40	SLE1-50	SLE1-65	SLE1-80	SLE1-95	
KW/HP(AC-3) Reted power(AC-3) IEC60947-4	220V	2.2/3	3/4	4/5.5	5.5/7.5	7.5/10	11/15	15/20	18.5/25	22/30	25/35
	380V	4/5.5	5.5/7.5	7.5/10	11/15	15/20	18.5/25	22/30	30/40	37/50	45/60
Reted current(AC-3) GB14048.4	220V	9	12	15	21	26	36	52	63	75	86
	380V	9	12	16	21	25	37	43	59	72	85
Reted heating current(A)	25		32	40	50	60	80		125		
Reted insuatald volage(V)	660										
Auxicary contact AC-15	Contact	Standard	1NO				1NO+1NC				
	Reted current (A)	220V	1.6								
		380V	0.95								
Suitable Thermal Relays	LR2D-1305/1314 (0.63-1.0/7-10)	LR2D-1316 (9-13)	LR2D-1321 (12-18)	LR2D-1322 (17-25)	LR2D-1353 (23-32)	LR2D-3355 (30-40)	LR2D-3359 (48-65)	LR2D-3361 (55-70)	LR2D-3363 (63-80)	LR2D-3365 (80-93)	
Enclosure rating	IP65										

SHAPE AND INSTALLATION DIMENSIONS



AC CONTACTOR



POWER DISTRUBTION BOX

For the relative size and request, we will produce as per the buyers' drawing !

