

Tel: +86-577-27885553 Fax: +86-577-27885554 Mobile: +86-13566125299

Call for Quotation 0086-577-27885553 E-mail: sales@ezitown.com/Ezitown@qq.com

Office Add:#49,Jinma WS RD,Liushi,Yueqing,Zhejiang,China 325604 Factory Add:No.271,Weft12 Rd,Yueqing Economic Developing zone,Zhejiang,China





ZHEJIANG EZITOWN ELECTRIC CO.,LTD



# Company Profile

Zhejiangezitown Electrical Technology Co., Ltd is a modern enterprise specialized in R&D, design, manufacture and sale of low-voltage electrical products. The main products are moulded-case circuit breaker, intelligent moulded-case residual current operated circuit breaker and frame type conventional circuit breaker which are widely used in the areas of electric power, mechanical engineering, mine, metallurgy, petrochemical, construction, ship and new energy.

Our company not only has product R&D and design center, mould making center, product assembling and testing center, but also set up a fully automatic production process from product development to product manufacturing that can fully meet the customer's various requirements. The company focuses on the whole process of quality management by introducing advanced intelligent and digital R&D and manufacture management system and equipment, making the products well received by users.

Now the company is introducing world cutting-edge technology and manufacturing technique to further improve the technological content of products and constantly updating products to deal with increasingly fierce market competition. The company adheres to the principle of customer first and making progress with customer and committed to provide high-quality electrical products and create first-class national electric appliance brand.

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STM6 Series Moulded-case Circuit Breaker





#### **Product overview**

STM6, STM6LY, STM6RT, STM6E and STM6EL series of circuit breakers are new upgraded circuit breakers researched and developed by the company combined with the advantages of similar international products and demand of domestic and international markets.

With insulation voltage up to 1000V, the circuit breaker is applicable for distribution systems of AC50Hz, rated working voltage 690V and rated working current from 10A to 800A, used to distribute electric power energy, protect circuits and power equipment against overload, short circuit, undervoltage and so on, also can be used for infrequent startup of motor and protect it from overload, short circuit or undervoltage.

It is featured with small size, high breaking, short flashover, etc., is the ideal product for users. It can be vertically installed or horizontally installed.

STM6DC series DC moulded-case circuit breaker (hereinafter referred to as circuit breaker) is suitable for DC systems of rated voltage up to and including DC 1000V and rated current 10~800A, used to distribute electric power energy, protect circuits and power equipment against overload, short circuit and so on.

The products can be fed with wires from top and bottom, and it is polarity-free.

It complies with the standards IEC60947-2, GB14048.2, etc.

#### **Product features**

#### Feature 1: current limiting capacity

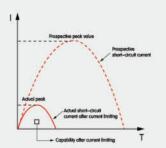
Current-limiting refers to limit of the increase of short-circuit current in the loop, and in the loop protected by STM6, peak value of the short-circuit current and the 12t energy in the circuit will be much smaller than the prospective value.

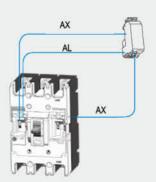
#### U-shaped static contact

Unique U-shaped static contact can achieve pre-breaking technology: The so-called pre-breaking technology refers to when short-circuit current flows through the contact system, electric power generated by U-shaped static contact and moving contact is mutual exclusive. The greater the short-circuit current is, the greater the repulsion of the electromotive force, and it is generated together with the short-circuit current at the same time. Before the trip action occurs, the electrodynamic repulsion force can make the static and moving contact separation, by increasing the arc to increase the equivalent resistance between them to achieve the purpose of suppressing increase of short-circuit current.

#### Feature 2: modularized accessories

- Accessory: For the circuit breakers of the same frame, they has uniform sizes regardless of the breaking capacity and rated
- current; Accessory: Users can freely choose and expand functions of circuit breakers according to their needs.
- Modularized accessories have insulation function, which is easy for hot-line operation and installation.



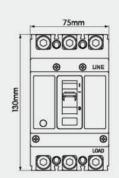


#### Product features

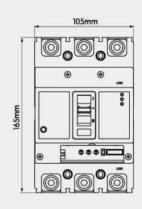
#### Feature 3: miniaturized frame

5 frame sizes: 125 type, 160 type, 250 type, 630 type, 800 type

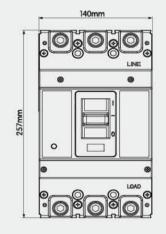
Rated current of STM6 series 10A~800A



125 frame reduces to the same size as the original 63 frame (the width is only 75mm)



160 frame reduces to the same size as the original 100 frame (the width is only 90mm)



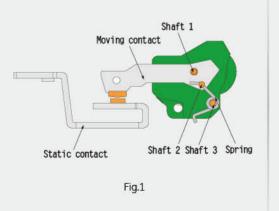
630 frame reduces to the same size of the original 400 frame (the width is only 140mm)

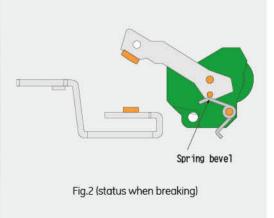
#### Feature 4: contact repulsion device (patented technology)

The technical scheme adopted by the invention is:

As shown in Figure 1, the new contact device is mainly consisted of static contact, moving contact, shaft 1, shaft 2, shaft 3 and springs;

When the circuit breaker is in the closed state, shaft 2 acts on the right side of the spring angle; When the circuit breaker has a large fault current, the moving contact will be subjected to the electric repulsion generated by the current itself, and rotate with the center of shaft 1, when shaft 2 rotates to the top of the spring angle with the moving contact, it makes moving contact to rapidly rotate upwards and quickly break the circuit upon the reaction of spring, it has enhanced the breaking capacity of the product through optimization of the contact structure.





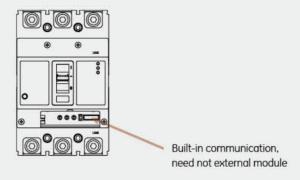




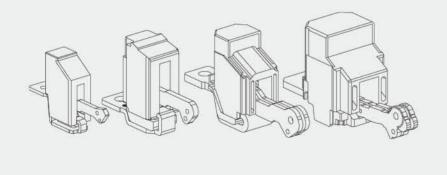
#### **Product features**

#### Feature 5: intelligence

Network communication is more convenient. It accesses to Modbus communication system through dedicated connection. STM6E / STM6EL with communication function can select monitoring accessories to realize door display, read, set and control.



#### Feature: modularized arc extinguishing system

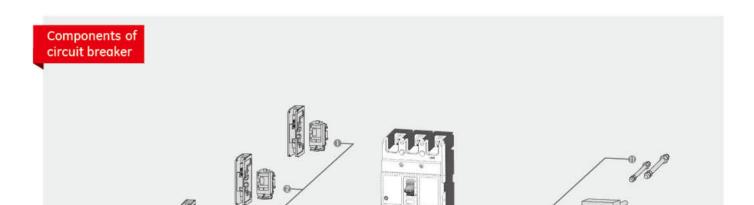


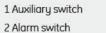
#### Feature 7: unification

The six series of STM6, STM6LY, STM6DC, STM6RT, STM6E, and STM6EL under the same frame size have the same dimensions, installation dimensions and appearance style, which is completely unified design.

### Ambient and installation conditions

- ◆ Altitude up to 2000m;
- ◆ Ambient medium temperature should be within -5°C to +40°C (+45°C for marine products);
- ◆ It can withstand the effect of damp air;
- It can withstand the effect of moulds;
- It can withstand the effect of nuclear radiation;
- ◆ The max inclination is 22.5°C .
- It still can work reliably when the ship subjects to normal vibration;
- ◆ It can still work reliably if the product subjects to the earthquake (4g).
- Places where the surrounding medium is free from explosion danger, and far away from gas or conductive dust that would erode the metal or destroy the insulation;
- ◆ Keep away from rain or snow.





5 Terminal cap 6 Phase partition 9 Manual operation

3 Shunt release

7 Front-board wiring

10Plug-in type back-board wiring

11Back-board wiring 4 Undervoltage release 8 Electric operation





#### Product Selection Guide

STM6] - 125 | S | P | / | 4 | 300 | - | 125A | 2 | A | Q1 | D1 | Q | 2

STM6	125			C		Р	4
1	1			1		1	1
Product code	Frame size	Frame size Current class		ass	Code of control circuit source voltage	Pole number	
Moulded- case circuit	125 160 250 630 800		S	М	Н	P:electric operation Z:rotary handle	3 :3-pole
breaker	Note: 125 is upgraded type of 63 frame		25/15		35/25	W:direct operation	4 :4-pole
	160 is upgraded type of 100 fro	me 160	35/25	50/35	70/50		
	250 is upgraded type of 225 frame		35/25	50/35	85/50		
630 15	630 is upgraded type of 400 fro		50/35	65/42	85/50		
			50/35	65/42	85/50		
	300	125A			2	A	

300	125A	2	A
1	ţ	ţ	1
Release type and internal accessory	Rated current (A)	Application	Code of four-pole product
The first digit represents release type 2: has instantaneous release only; 3:complex release Note: Later two digits are the code of accessories (see accessory table)	125 10. 16, 20, 32, 40, 50 63, 80, 100, 125 160 10. 16, 20, 32, 40, 50 63, 80, 100, 125, 140 160 250 100, 125, 140, 160 180, 200, 225, 250 630 250, 300, 315, 350, 400, 500, 630	1: power distribution 2 :motor protection	A: N-pole without protection, cannot close or open B: N-pole without protection, can close and open C:N-pole with protection, can close and open D: N-pole with protection, cannot close or open

Q1			D1		Q	2
1			1		1	1
Accessory voltage			Electric operati	on voltage	Installation methods	Install wiring board or not
Undervoltage release Q1:AC220V Q2:AC240V Q3:AC380V Q4:AC415V	Shunt release F1: AC220V F2: AC380V F3: DC110V F4: DC24V	Auxiliary alarm J1: AC125V J2: AC250V J3: DC125V J4: DC24V	DC 1electric operation D1: AC220V D2: AC230V D3: AC380V D4: AC400V	DC3 electric operation D5: AC230V D6: AC110V D7: DC220 D8: DC110 D9: AC110-240V D10: DC100-220V	Q:Front-board H:Back-board C:Plug-in type	1:No 2:Yes
			The state of the s	e voltages for two ons. Please refer tion of external		

#### Main performance indexes

Frame current (A)		12	25	160		
Model		STM6-125S	STM6-125H	STM6-160S	STM6-160M	STM6-160H
Pole number		2,	3, 4	2, 3, 4		
Rated current (A)			32, 40, 50, 100, 125	10, 16, 20, 32, 40, 50, 63, 80, 100, 125, 140, 160		
Rated voltage (V)		AC4	900V	AC400V		
Rated insulation voltage (V)		AC10	V000	AC1000V		
Short-circuit breaking capacity (KA)Icu/Ics	AC400V	25/15	35/25	35/25	50/35	70/50
	ON	60	000		3000	
Operating cycle number	OFF	9000		7000		
Outline dim. (mm) a-b-c-ca	2P	50-130	)-68-90	60-155-68-90	60-155-68-90	60-155-88-11
	3P	75-130	)-68-90	90-155-68-90	90-155-68-90	90-155-88-11
	4P	100-13	0-68-90	120-155-68-90	120-155-68-90	120-155-88-11
	2P	0.5	0.55	1	.0	1.1
Wight (kg)	3P	0.55	0.65	1	.1	1.2
	4P	0.65	0.8	1	.4	1.5
Electric operating device (MI	))				•	
External driving operating ho	andle				•	
Automatic release		Thermal electro	omagnetic type	Thermal electromagnetic type		





#### Main performance indexes

Frame current (A)			250			630		
Model		STM6-250S	STM6-250M	STM6-250H	STM6-630S	STM6-630M	STM6-630H	
Pole number			3, 4	,	3,4			
			MATERIAL STATES					
Rated current (A)	100, 125	, 140, 160, 180, 20	00, 225, 250	250,	315, 350, 400, 500	), 630		
Rated voltage (V)	oltage (V) AC400V			AC400V				
Rated insulation voltage (V)			AC1000V			AC1000V		
Short-circuit breaking capacity (KA)Icu/Ics	AC400V	35/25	65/42	85/50	50/35	65/42	85/50	
Operating cycle number	ON	3000				2000		
operating eggle number	OFF		7000		4000			
Outline dim. (mm) a-b-c-ca	3P	105-16	5-68-92	105-165-88-115	140-257-103-155			
,	4P	140-16	5-68-92	140-165-88-115	184-257-103-155			
Wight (kg)	3P	1	.5	1.7	5.7			
vvigiti (ng/	4P	1	.9	2.1		7.5		
Electric operating device (MI	O)		•			•		
External driving operating h	andle		•			•		
Automatic release	Automatic release		Thermal electromagnetic type			Thermal electromagnetic type		

## Main performance indexes

Frame current (A)			800				
Model		STM6-800S	STM6-800M	STM6-800H			
Pole number		3, 4					
Rated current (A)			500, 630, 700, 800				
Rated voltage (V)		AC400V					
Rated insulation voltage (V)		AC1000V					
Short-circuit breaking capacity (KA)Icu/Ics	AC400V	50/35	65/42	85/50			
	ON	1500					
Operating cycle number	OFF	4000					
Outline dim. (mm) a-b-c-ca	3P		210-275-103-155				
	4P		280-275-103-155				
	3P		9.5				
Wight (kg)	4P		12.5				
Electric operating device (M	D)		•				
External driving operating h	andle		•				
Automatic release		Thermal electromagnetic type					





### Product Selection Guide

STM6LY		160				S				Р		4
1		1				1				1		1
Product code		Frame size				Current o	class			ode of co circuit so voltag	urce	Pole number
Residual- current circuit breaker	ent circuit Note:		00 frame 50 frame	160 250	35/25	5 50/35 5 50/35	35 70 85 85	H 5/25 5/50 5/50 5/50	Z:	ectric op rotary h direct op	andle	3 :3-pole 4 :4-pole
3(	00	160	0A			2				Α		
1 1			Ţ			1				Ţ		
Release type acce	and interna ssory	Rated c	urrent (A)	E	ŀ	Applicatio	n		Code	of four-	pole pro	duct
release type 2 :has instar release only 3 :complex r Note: Later two di	ntaneous ; release gits are the essories (see	63, 80, 160 10, 16, 26, 38, 80, 160 250 100, 12 180, 20 630 250, 30	100, 125 20, 32, 40 100, 125 5, 140, 10 0, 225, 2 0, 315, 3 0, 630	0, 50 , 140 60 50 50,		wer distri	B: N-pole without close and open C :N-pole with pro and open D: N-pole with pro close or open Note:Unless othe			ole without protection, can not open ole with protection, can close en ole with protection, cannot r open nless otherwise mentioned, products will be classified as		
L1			,	Y1								
1				ļ								
Rated residuo	al operating	current (mA)		Rated	l delay	time (if s	elected	d)				
Delay fixed t	jpe	Quick three-ge adjustable	ar	Delay	fixity						Delay tl adjustab	nree-gea le
L2: 50 L3: 75	L7: 200 L8: 300 L9: 500 L10: 1000	L11: 30, 50, 100 L12: 30, 100, 20 L13: 30, 100, 50 L14: 100, 200, 3 L15: 100, 300, 5 L16: 300, 500, 2	00 00 300 500	Y2: 0.2s Y5: 0.5s Y			0.7s 0.8s 0.9s	Y10: Y11: Y12:	1.5s \	/13: 0.45 /14: 1、		
Q1			D1						Q		2	
1			1						1		1	
Accessory vo	Later	102	TO SERVICE SERVICES			voltage			Installa	ds	Install board	
Undervoltage release Q1:AC220V Q2:AC240V Q3:AC380V Q4:AC415V	Shunt release F1: AC220 F2: AC380 F3: DC110 F4: DC24V	V J2: AC250V V J3: DC125V	D3: AC: D4: AC	ion 220V 230V 380V 400V		DC3 electoperation D5: AC23 D6: AC13 D7: DC23 D8: DC1 D9: AC13 D10: DC2	n 30V 10V 20 10 10-240 100-22	1964545	Q :Front-board 1: No H:Back-board 2 : Yes C:Plug-in type			
	100000000000000000000000000000000000000		D4: AC	400V	ations	D8: DC1: D9: AC1:	10 10-240 100-22 or two refer to	0V the				

#### Main performance ndexes

Frame curren	t		125	5		160	
Model			STM6LY-125S	STM6LY-125H	STM6LY-160S	STM6LY-160M	STM6LY-160H
Pole number			2, 3,	4	2, 3, 4	3,	4
			M. W. The state of				
Power supplie	ower supply system 3P		3 φ 3W, 1 φ 2	W. 1 \phi 3W	3 ф	3W, 1 φ 2W, 1 φ 3W	1.
Torrer supply	System	4P	3ф4	w		3 φ 4W	
Rated current			10, 16, 20, 32 80, 100			16, 20, 32, 40, 50, 63 , 100, 125, 140, 160	3.
Rated voltage	!		AC40	0V	AC400V		
Rated insulati	on voltage		AC69	0V	AC690V		
Leakage indication system			Butto	on	Button		
Short-circuit bro (KA)Icu/Ics	eaking capacity	AC400V	25/15	35/25	35/25	50/35 70/50	
Operating cyc	le number	ON	600	0	6000	30	00
operating ego	sic number	OFF	900	0	9000 7000		
Quick type	Rated resid	ual operating current	30, 100, 500 (adjustable)		30, 100, 500 (adjustable)		
	Max. actua	tion time	0.1		0.1		
Delay type	Rated resid	lual operating current	100, 300, 500	(adjustable)	100, 300, 500 (adjustable)		
	Max. actua	tion time	; <del></del>		_		
	Max. actua	tion time under 21△n (s)	0.45, 1.0, 2.0 (	adjustable)	0.45, 1.0, 2.0 (adjustable)		
	Inertia non- 21△n (s)	-actuation time under	0.1, 0.5	, 1.0	0.1, 0.5, 1.0		
Outline dim. (r	mm) a-b-ca	2P	50-130-	68-90		60-155-68-90	
		3P	75-130-	68-90	90-155-	68-90	90-155-88-115
		4P	100-130-	-68-90	120-155	-68-90	120-155-88-115
2P		2P	0.5	5	0.75	0.75	0.75
		3P	0.6	5	0.85	1.2	1.2
		0.0	0	1.2	1.5	1.5	
Electric opera	ting device (M	D)	•			•	
External drivir	ng operating h	andle	•			•	
Automatic rel			Thermal electro	12 1		al electromagnetic	





Frame currer	nt			250		6.	30	800	
Model			STM6LY-250S	STM6LY-250M	STM6LY-250H	STM6LY-630S	STM6LY-630H	STM6LY-800H	
Pole number	2	?		3, 4		3,	. 4	3, 4	
5		3P	3 (	3W, 1 ф 2W, 1 ф	3W	3 φ 3W, 1 φ	2W, 1 φ 3W	3 φ 3W, 1 φ 2W, 1 φ 3W	
Power supply	ysystem	4P		3 φ 4W		3 ф	4W	3 φ 4W	
Rated curren	t		100, 125,	140, 160, 180, 20	00, 225, 250	250, 315, 350,	, 400, 500, 630	500, 630, 700, 800	
Rated voltage	e			AC400V		AC400V		AC400V	
Rated insulat	ion voltage			AC690V		AC690V		AC690V	
Leakage indi	cation syste	m		Button		Button		Button	
Short-circuit be capacity (KA)Ic		AC400V	35/25	65/42	85/50	50/35 85/50		85/50	
Operatina cu	Operating cycle number		3000			20	000	2000	
operating eg	cic Harriber	OFF		7000		40	000	4000	
Quick type	Rated resi	dual operating	30, 100, 500 (adjustable)			30, 100, 500	(adjustable)	30, 100, 500 (adjustable	
	Max. actu	ation time		0.1		0.1		0.1	
Delay type	Rated resi	dual operating	100	100, 300, 500 (adjustable)			0(adjustable)	100, 300, 500(adjustable	
	Max. actu	ation time		=		-		-	
	Max. actu 21△n (s)	ation time under	0.4	5, 1.0, 2.0 (adjust	table)	0.45, 1.0, 2.0	(adjustable)	0.45, 1.0, 2.0 (adjustable	
	The second secon	n-actuation time \( n \) (s)		0.1, 0.5, 1.0		0.1, 0.5, 1.0		0.1, 0.5, 1.0	
Outline dim. (	mm) a-b-c-	3P	105-16	5-68-92	105-165-88-115	140-257	-103-155	210-257-103-155	
		4P	140-16	5-68-92	140-165-88-115	185-257	-103-155	280-257-103-155	
Maight (L.)		3P	2	.0	2.1	6	.6	12.5	
Weight (kg)		4P	2	.5	2.6	8	.4	17.5	
Electric oper	ating device	(MD)		•				•	
External drivi	ng operatin	g handle		•				•	
Automatic re	lease		Therm	nal electromagne	etic type		ctromagnetic ipe	Thermal electromagnetic type	

STM6LY Series Moulded-case Residual-current Circuit Breaker

STM6DC - 125 | H | 4300 / DC1000V / 80A / P / B

STM6DC	125	н	2	2
1	1	1	1	1
Product code	Frame size rated current	Rated ultimate short- circuit breaking capacity	Pole number	Release type
DC circuit breaker	125, 160, 250, 630, 800	H :higher level type	2:2-pole 3:3-pole 4:4-pole	2-short-circuit release 3-complex release

0	1000V	P	В
4	1	1	1
Accessory	Rated operating voltage	External accessory	Wiring method
0 :Null 2 :auxiliary contact 3:complex release	DC 500V-1000V	Null: body operation P: electric operation GZ3: rotary handle	Null: front-board wiring B: back-board wiring C: plug-in type





#### Main performance indexes

Frame current (A)		125	160	250	
Model		STM6DC-125H	STM6DC-160H	STM6DC-250H	
Pole number		2, 3, 4	2, 3, 4	2, 3, 4	
			BOIL IN	WHAT AND THE PARTY OF THE PARTY	
Rated current (A)		10, 16, 20, 32, 40, 50, 63, 80, 100, 125	10, 16, 20, 32, 40, 50,63, 80, 100, 125, 140, 160	100, 125, 140, 160, 180, 200, 225, 250	
Rated voltage (V)		DC250V, DC500V, DC750V, DC1000V	DC250V, DC500V, DC750V, DC1000V	DC250V, DC500V, DC750V, DC1000V	
Rated insulation voltage (V)		DC1000V	DC1000V	DC1000V	
Short-circuit breaking capacity (KA) lcu(lcs=70%lcu)		DC250V(35kA), DC500V(25kA), DC750V(15kA), DC1000V(10kA)	DC250V(35kA), DC500V(25kA), DC750V(15kA), DC1000V(10kA)	DC250V(35kA), DC500V(25kA) DC750V(15kA), DC1000V(10kA	
Operating avale number	ON	6000	3000	3000	
Operating cycle number	OFF	9000	7000	7000	
Outline dim. (mm) a-b-c-	2P	50-130-68-90	60-155-88-115	-	
	3P	75-130-68-90	90-155-88-115	105-165-88-115	
- c	4P	100-130-68-90	120-155-88-115	140-165-88-115	
	2P	0.55	1.0	2	
Wight (kg)	3P	0.65	1.1	1.5	
	4P	0.8	1.4	1.9	
Electric operating device	(MD)	•	•	•	
External driving operating	g handle	•	•	•	
Automatic release		Thermal electromagnetic type	Thermal electromagnetic type	Thermal electromagnetic typ	

#### Main performance indexes

Frame current (A)		630	800	
Model		STM6DC-630M	STM6DC-800H	
Pole number		2, 3, 4	2, 3, 4	
		STORE STATE OF THE		
Rated current (A)		250, 315, 350, 400, 500, 630	500, 630, 700, 800	
Rated voltage (V)		DC250V, DC500V, DC750V, DC1000V	DC250V, DC500V, DC750V, DC1000V	
Rated insulation voltage (V)		DC1000V	DC1000V	
Short-circuit breaking capacity (KA)		DC250V(65kA), DC500V(35kA), DC750V(25kA), DC1000V(15kA)	DC250V(65kA), DC500V(35kA), DC750V(25kA), DC1000V(15kA)	
Operating quals number	ON	2000	1500	
Operating cycle number	OFF	4000	4000	
Outline dim. (mm) a-b-c-ca	2P	140-257-103-155	210-275-103-155	
	3P	140-257-103-155	210-275-103-155	
"a" "c"	4P	184-257-103-155	280-275-103-155	
	2P	5.0	9.5	
Wight (kg)	3P	5.7	12.5	
	4P	7.5	1.4	
Electric operating device (M	D)	•	•	
External driving operating h	andle	•	•	
Automatic release		Thermal electromagnetic type	Thermal electromagnetic type	

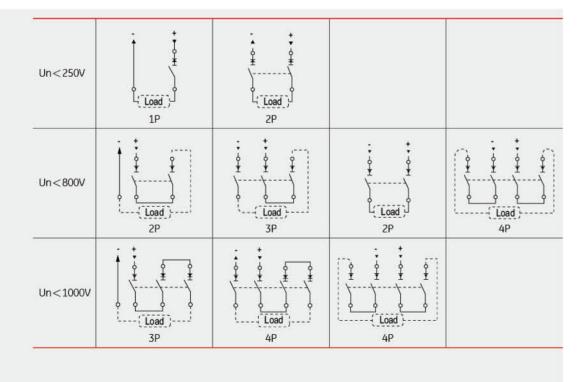




## DC system protection

System type		Ground	Ungrounded system	
Various types of reformation		One pole of DC power is grounded	Neutral point of DC power is grounded	
		B A R	a B A R	a B A R
Fault effect	Fault A	Max. Isc that only to the positive pole	Isc is close to max. Isc and only to the positive pole, voltage is U/2	No effect
	Fault B	Max. Isc that includes two poles	Max. Isc that includes two poles	Max. Isc that includes two poles
	Fault C	No effect	Same as fault A but only to the negative pole	No effect
The most se situation	rious	Fault A	Faults A and C	Fault B
Pole breaking		It can be connected at the positive in series, and commonly execute the breaking	At each pole, they must be at U/2	The two poles to be disconnected are evenly distributed between the two electrodes

### Wiring method



Product Selection Guide

STM6	RT	- 160	H	Z /	3	300	2 A	Q1	Q 2	1

STM6	RT	160		Н			
1	4	4			1		
Product code	Adjustable type	Code of frame size current	Breaking capacity ICI		JCU/IC	S(kA)	
circuit breaker	RT: thermomagnetic adjustable T/A: single adjustable (i.e. thermal adjustable\magnetic fixed)	160, 250, 630, 800 Note: 160 is upgraded type of 100 frame 225 is upgraded type of 250 frame 630 is upgraded type of 400 frame	225 630 800	35/25 50/35 50/35	50/35 - -	H 70/50 85/50 85/50 85/50 ance 70	KA

Z	3	300	160A
	1	<u>.</u> Ĵ.	Ĭ
Code of operating mode	Pole number	Code of release type and internal accessory	Rated current (A)
P:electric operation Z: rotary handle W:direct operation ①Electric operation DC1,DC2, DC3	3 :3-pole 4 :4-pole	The first digit represents release type 2 :has instantaneous release only; 3 :complex release  Note: Later two digits are the code of accessories (see accessory table 1)	160 20-25,25-32,32-40 40-50,50-63,63-80 80-100,100-125,125-160 250 100-125,125-160 160-200,200-250 630 200-250,250-320 320-400,400-500 500-630 800 400-500,500-630 630-800

2	A
1	Į.
Application	Code of four-pole product
1:power distribution 2:motor protection	A: N-pole without protection, cannot close or open B: N-pole without protection, can close and open
	C :N-pole with protection, can close and open D: N-pole with protection, cannot close or open

Q1			D1		Q	2
1			Ţ		1	1
Accessory voltage			Electric operat	ion voltage	Installation methods	Install wiring board or not
Undervoltage release Q1:AC220V Q2:AC240V Q3:AC380V Q4:AC415V	Shunt release F1: AC220V F2: AC380V F3: DC110V F4: DC24V	Auxiliary alarm J1: AC125V J2: AC250V J3: DC125V J4: DC24V	DC1 electric operation D1: AC220V D2: AC230V D3: AC380V D4: AC400V	DC3 electric operation  D5: AC230V  D6: AC110V  D7: DC220  D8: DC110  D9: AC110-240V  D10: DC100-220V	Q :Front-board H:Back-board C:Plug-in type	1:No 2:Yes
			electric operat	le voltages for two ions. Please refer to the f external accessory.		





# Main performance indexes

Frame current (A)			160		250			
Model		STM6RT-160S	STM6RT-160M	STM6RT-160H	STM6RT-250S	STM6RT-250M	STM6RT-250H	
Pole number			3, 4			3, 4		
						STEEL		
Rated current (A)			32, 32-40, 40-50, 5 00, 100-125A, 125	0.00	100-125, 125-160, 160-200, 200-250A			
Rated voltage (V)			AC400V		AC400V			
Rated insulation voltage (V)			AC1000V		AC1000V			
Short-circuit breaking capacity (KA)Icu/Ics	AC400V	35/25	50/35	70/50	35/25	50/35	85/50	
Operating cycle number	ON	1.2	3000		3000			
Operating cycle number	OFF		7000		7000			
Outline dim. (mm) a-b-c-ca	3P	90-155	5-68-90	90-155-88-115	105-16	5-68-92	105-165-88-115	
<u> </u>	4P	120-15	5-68-90	120-155-88-115	140-16	5-68-92	140-165-88-115	
NASabt (ka)	3P	1.0	1.0	1.1	1	.5	1.7	
Wight (kg) 4P		1.1	1.4	1.7	1	.9	2.1	
Electric operating device (M	1D)		•			•		
External driving operating h	nandle		•			•		
Automatic release		Thern	Thermal electromagnetic type			Thermal electromagnetic type		

# Main performance indexes

Frame current (A)		63	0	8	00	
Model		STM6RT-630S STM6RT-630H		STM6RT-800S	STM6RT-800H	
Pole number		3.	4	3.	. 4	
		20 Mary 11 Mary 12 Mar				
Rated current (A)		200-250, 250-320, 320-400, 400-500, 500-630		400-500, 500-630, 630-800		
Rated voltage (V)		AC400V		AC400V		
Rated insulation voltage (V)		AC10	00V	AC1000V		
Short-circuit breaking capacity (KA)Icu/Ics	AC400V	50/35	70/50	50/35	85/50	
0	ON	2000		1500		
Operating cycle number	OFF	4000		4000		
Outline dim. (mm) a-b-c-ca	3P	140-257-103-155		210-275-103-155		
	4P	185-257-103-155		280-275-103-155		
	3P	5.	7	9.5		
Wight (kg)		7.	5	12	2.5	
Electric operating device (M	ID)	•			•	
External driving operating h	nandle	•		(	•	
Automatic release		Thermal electro	magnetic type	Thermal electromagnetic type		





#### **Product overview**

STM6E and STM6EL series electronic circuit breakers are applicable for low-voltage power systems of AC 50Hz, rated operating voltage up to 1000V and rated operating current from 16A to 800A.

#### **Ambient and** installation conditions

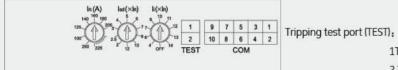
- ◆ Altitude up to 2000m;
- ◆ Ambient medium temperature should be within -5°C to +40°C (+45°C for marine products);
- It can withstand the effect of damp air;
- It can withstand the effect of salt fog or oil mist;
- ◆ It can withstand the effect of moulds;
- It can withstand the effect of nuclear radiation;
- ◆ The max inclination is 22.5°C.
- It still can work reliably when the ship subjects to normal vibration;
- It can still work reliably if the product subjects to the earthquake (4g).
- ◆ Places where the surrounding medium is free from explosion danger, and far away from gas or conductive dust that would erode the metal or destroy the insulation;
- ♦ Keep away from rain or snow.

#### **Features**

- ◆ Circuit breaker can be equipped with undervoltage release, shunt release, auxiliary contacts, alarm contacts, electric operating mechanism, rotary operating handle and other accessories.
- Circuit breaker has protection functions of overload long delay, short-circuit short delay and short-circuit instantaneous protection, the user can set the required protection characteristics (user only needs to operate the DIP switch for settings of protection function parameters).
- ◆ Circuit breaker has ground fault and thermal analog protection functions, pre-alarm indication overcurrent indication, load current indication, digital current analysis technology, and it can achieve a higher level of protection.
- ◆ STM6EL series is circuit breaker with residual current protection function.

### Panel and function description

#### Intelligent release panel



1Tripping test input DC12V(+) 2 Tripping test input DC12V(-)

Panel adjustment knob as follows in turn:

- IR(A) Isd(x IR) Ii(x IR)
- ◆ Short-circuit short delay tripping setting current:
- ♦ li: Short-circuit instantaneous tripping setting current;

or set by remote communication, as follows:

The rest parameters are set by factory default,

- ♦ IR: Overload long delay tripping setting current; Isd: ♦ tR: Overload long delay setting time, factory default: 60s;
  - tsd: Short-circuit short delay setting time, factory default: 0.1s;
  - ◆ Ip: Overload pre-alarm setting current, factory default: 0.85\*IR;

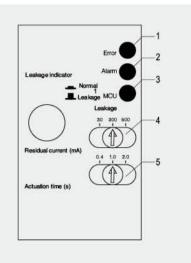
#### Intelligent communication port (COM):

- 1: Power supply input DC24V(+)
- 2: Power supply input DC24V(-)
- 3: 485A+
- 4: 485A+
- 5: 485B-

- 7: Closing and opening common terminal of electric operating mechanism
- 8: Closing and opening common terminal of electric operating mechanism
- 9: Opening of electric operating mechanism
- 10: Closing of electric operating mechanism

### Panel with residual current protection

- 1: Setting current In overload indicator, the red light will go on when the operation current is ≥ 105% In
- 2: Pre-alarm current Ip indicator, the yellow light starts flashing when operation current is ≥ Ipx90%
- 3: When operation current is ≥ 60% xln setting current, the green light will go on
- 4: The code switch for residual current setting
- 5: The code switch for leakage action time setting



#### Product Selection Guide

#### STM6 E - 160 P / 3 400 2 A

STM6	E	L
1	1	1.
Product code	Adjustable type	Rated residual operating current
Moulded-case circuit breaker	E: electronic adjustable	L: residual-current circuit breaker  Quick fixed type  30、50、100、30、100、200、30、100、500、100、200、300  100、300、500、300、500、1000  Quick adjustable type  30、50、100、30、100、200、30、100、500、100、200、300  100、300、500、300、500、1000

160	P	3
Į.	1	1
Code of frame size current	Code of operating mode	Pole number
Inm=160 Inm=300 Inm=630 Inm=1250	P: electric operation Z: rotary handle W: direct operation ① Electric operation DC1, DC2, DC3	3 :3-pole 4 :4-pole

400	2	A
1	1	1
Code of release type and internal accessory	Code of different applications	Code of four-pole product
2: intelligent release Accessory code, see table 1	1: power distribution 2: motor protection	A: N-pole without protection, cannot close or open B: N-pole without protection, can close and open C:N-pole with protection, can close and open D: N-pole with protection, cannot close or open







Frame current (A)		160	250	630	800
odel  ple number  ated current (A)  ated voltage (V)  ated insulation voltage (V)  nort-circuit breaking  apacity (KA)lcu/lcs  ON  OF		STM6E-160	STM6E-250	STM6E-630	STM6E-800
Pole number		3, 4	3, 4	3, 4	3, 4
				MEL AND	
Rated current (A)		16-32, 40-125, 80-160	100-250	200-400, 300-630	300-630, 400-800
Rated voltage (V)		AC400V	AC400V	AC400V	AC400V
Rated insulation voltage (V)		AC1000V	AC1000V	AC1000V	AC1000V
Short-circuit breaking capacity (KA)lcu/lcs AC400V		70/50	85/50	85/50	85/50
0	ON	1500	1000	1000	1000
Operating cycle number	OFF	7000	7000	4000	4000
Outline dim. (mm) a-b-c-ca	3P	90-155-88-115	105-165-88-115	140-257-103-155	210-257-103-155
	4P	90-155-88-115	140-165-88-115	185-257-103-155	280-257-103-155
Manage Manage	3P	1.8	2.1	5.7	5.7
Wight (kg)	4P	2.3	2.6	7.5	7.5
Electric operating device (MD)		•	•	•	•
External driving operating h	andle	•	•	•	•
Automatic release		Electronic type	Electronic type	Electronic type	Electronic type

Frame curre	ent (A)		160	250	630	1250
Model			STM6EL-160	STM6EL-250	STM6EL-630	STM6EL-1250
Power supp	ly system		3 φ 3W, 1 φ 2W 1 φ 3W	3 φ 4W, 3 φ 3W,1 φ 3W 1 φ 2W, 1 φ 3W	3 ф 3W, 1 ф 2W 1 ф 3W	3 ф 3W.1 ф 2W 1 ф 3W. 3 ф 4W
Rated curre	nt (A)		16-32, 40-125 80-160	100-250	200-400, 300-630	300-630, 400-800
Pole numbe	Γ	Î	3, 4	3, 4	3, 4	3, 4
Rated voltag	ge Ue(V)		AC440V	AC440V	AC440V	AC440V
Rated insula	ntion voltage	Ui(V)	AC1000V	AC1000V	AC1000V	AC1000V
Quick type	Rated res	sidual operating	100, 300, 500(adjustable)	100, 300, 500(adjustable)	100, 300, 500(adjustable)	100, 300, 500(adjustable)
Quick type	Max. actua	tion time	0.1	0.1	0.1	0.1
	Rated res	sidual operating	100, 300, 500(adjustable)	100, 300, 500(adjustable)	100, 300, 500(adjustable)	100, 300, 500(adjustable)
Delay type	Max. actu 21∆n(s)	iation time under	0.45, 1.0, 2.0(adjustable)	0.45, 1.0, 2.0(adjustable)	0.45, 1.0, 2.0(adjustable)	0.45, 1.0, 2.0(adjustable)
	Inertia no under 21∆	n-actuation time n(s)	0.1, 0.5, 1.0	0.1, 0.5, 1.0	0.1, 0.5, 1.0	0.1, 0.5, 1.0
Leakage ind	lication syste		Button	Button	Button	Button
Short-circuit capacity (KA		AC400V	70/50	85/50	85/50	85/50
Operating	uala aumbar	ON	1500	1000	1000	1000
Operating C	ycle number	OFF	7000	7000	4000	4000
· ca	mm) a-b-c-ca	3P	90-155-88-115	105-165-88-115	140-257-103-155	210-257-103-155
		4P	120-155-88-115	140-165-88-115	185-257-103-155	280-257-103-155
Wight (kg)		3P	1.8	2.1	6.6	12.5
vvigite (kg/		4P	2.3	2.6	8.4	17.5
Electric ope	rating device	(MD)	•	•	•	•
External driv	ving operatin	g handle	•	•	•	•
Automatic r	elease		Electronic type	Electronic type	Electronic type	Electronic type





#### Accessory table

Model		STM6-125	STM6-160	STM6-250	STM6-630	STM6-800
Breaking co	apacity	S, H	S, M, H	S, M, H	S, M, H	S, H
Pole numbe	er	2, 3, 4	2, 3, 4	3, 4	3, 4	3, 4
Accessory code	Accessory name					
208、308	Alarm switch	•	•	•	•	•
210、310	Shunt release					
220、320	Auxiliary switch		0		0	0
230、330	Undervoltage release					
240、340	Shunt release, auxiliary switch				0 0	
260、360	Two groups of auxiliary switch	00	00	0 0	0 0	00
270、370	Auxiliary switch, undervoltage release	0	0	0	0	0
218、318	Shunt release, alarm switch	• 0	•	•	• 0	• 0
228、328	Auxiliary switch, alarm switch				0	0
238、338	Undervoltage release, alarm switch	•	• =	•	•	• =
248、348	Shunt release, auxiliary switch, alarm switch					
268、368	Two groups of auxiliary switch, alarm switch	0 0	000	00	000	0 0
278、378	Auxiliary switch, undervoltage release, alarm switch	0 -	0 -	0	0	0 =
280、380	Two groups of auxiliary switch, shunt release	0 0	0 0	0 0		0 0
Powe	r					
Left	Right Handle		Alarm switch	○ Auxiliary s	witch	

equipped with accessory

Note:1, The company can provide three new products of right auxiliary switch, left shunt release and left undervoltage release for choice.

- 2、Within 220, 320, 240, 340, 270 and 370 specifications, auxiliary switch can be supplied with two pair switches, please specify in the order.
- 3、P switches of STM6LY, STM6E and STM6EL can not be equipped with right auxiliary switch, right shunt release and right undervoltage release.

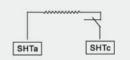
### Internal accessories

Internal accessories of STM6, STM6LY, STM6RT, STM6DC, STM6EL series include undervoltage release, shunt release and auxiliary alarm release, their main technical parameters and wiring diagram are as follows:

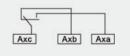
		Rated voltage of power supply	Main features
	NC2	AC220, AC240	A、Undervoltage relea
	150	AC380, AC415	35% of the rated volta
71	Š		B、The undervoltage r
			breaker from closing w C、The undervoltage r
	2		closing of the circuit br
	2 0		the rated voltage.
	<u> </u>		1

Alarm switch

Undervoltage release	
Rated voltage of power supply	Main features
AC220, AC240 AC380, AC415	A、Undervoltage release should act when voltage drops to within 70% and 35% of the rated voltage.  B、The undervoltage release should not be able to close to prevent the circuit breaker from closing when voltage is lower than 35% of the rated voltage.  C、The undervoltage release should ensure to be closed and ensure reliable closing of the circuit breaker when voltage is equal to or greater than 85% of the rated voltage.

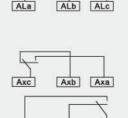


Rated voltage of power supply	Main features
DC24, DC110	Shunt release can work reliably when the rated voltage value is at 70% and
AC220, AC380	110%.



Auxiliary alarm contact					
Rated voltage of power supply	Main features				
Auxiliary switch	Provide position-difference signal for breaker.	"Closing"	and	"Opening"	of circuit
AC 125V 5A, AC 250V 3A DC 125V0.4A, DC 125V0.2A					

Provide differentiated signals for the circuit breaker at "normal work" and "fault



AC 125 5A, AC 250V 3A DC 125V0.4A, DC 125V 0.2A	
Auxiliary alarm switch	Provide differentiated signals for the circuit breaker at "close", "open" and "fault free trip" positions.
AC 125V 5A, AC 250V 3A	I I
DC 125V0 4A DC125V0 2A	

free trip" positions.





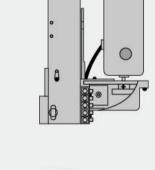
#### External accessories

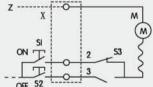
The main technical parameters, dimensions and installation diagrams of external accessories for STM6, STM6R, STM6R, STM6R, STM6EL, and STM6EL series are as follows:

#### DC3 electric operating mechanism

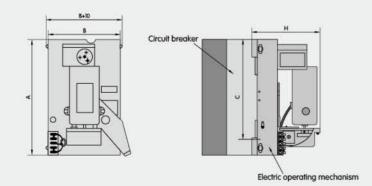
DC1 series electric operating mechanism is driven by motor, which is suitable for 250A and above heavy current rating circuit breaker operation.

Model & Spec.			
Power distribu	tion circuit breaker	DC1-400/30	DC 1-630/30
		STM6-630 STM6LY-630 STM6RT-630 STM6DC-630 STM6E-630 STM6EL-630	STM6-800 STM6LY-800 STM6RT-800 STM6DC-800 STM6E-800 STM6EL-800
	Α	226	
Outling dim	В	132	
Outime dim.	С	196	
Outline dim.	C	150	
	Н	139	
Rated voltage	Н	A CONTRACTOR OF THE CONTRACTOR	V, AC220V
Rated voltage Starting currer	H (V)	139	V, AC220V
	H (V)	139 AC400V, AC380V, AC230	V, AC220V





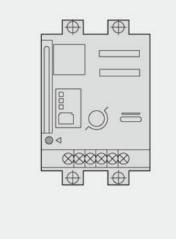
M-motor 53-sensitive switch
X- connection terminal
SI, 52-button (user-supplied)



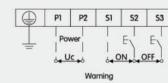
### External accessories

The main technical parameters, dimensions and installation diagrams of external accessories for STM6, STM6LY, STM6RT, STM6DC, STM6E, and STM6EL series are as follows:

#### DC3 electric operating mechanism

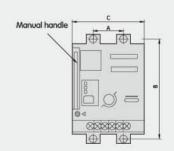


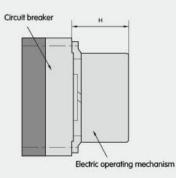
### Wiring diagram



- 1. Manually prohibit counterclockwise operation
- 2. When it is manual operation, insert the handle at the starting point, clockwise rotate it 180  $^{\circ}$

Model & S	pec.	DC3-63/30	DC3-100/30	DC3-250/30	DC3-400/30	DC3-630/30		
Applicable model	е	STM6-125 STM6LY-125 STM6RT-125 STM6DC-125	STM6-160 STM6LY-160 STM6RT-160 STM6DC-160 STM6E-160 STM6EL-160	STM6-250 STM6LY-250 STM6RT-250 STM6DC-250 STM6E-250 STM6EL-250	STM6-630 STM6LY-630 STM6RT-630 STM6DC-630 STM6E-630 STM6EL-630	STM6-800 STM6LY-800 STM6RT-800 STM6DC-800 STM6E-800 STM6EL-800		
	А	25	30	35	44	70		
Outline	B 117 132		132	126	194	243		
dim.	С	90	90	90	130	130		
	Н	88.5	89.5	92	152	153		
Rated volt (V)	tage	AC-110-24, DC100-220.DC2	24		AC230, DC220 AC110,DC110,			
Starting c (A)	urrent	≤ 0.5			<b>≤</b> 2			
Mechanic (times)	al life	14000		10000	5000			
Power (W	)	14			35			





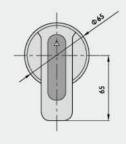


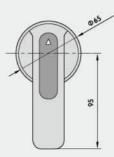


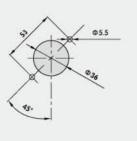


Manual operating mechanism

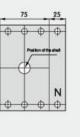
Appearance of round handles and door opening size (the distance from center of opening to the hinge is not less than 200mm)

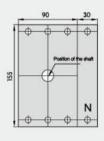


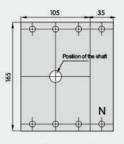




Opening diagram of center-type shaft

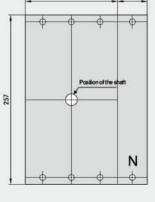


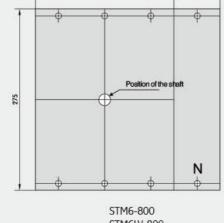




STM6-125 STM6LY-125 STM6RT-125 STM6DC-125 STM6-160 STM6LY-160 STM6RT-160 STM6DC-160 STM6E-160 STM6EL-160

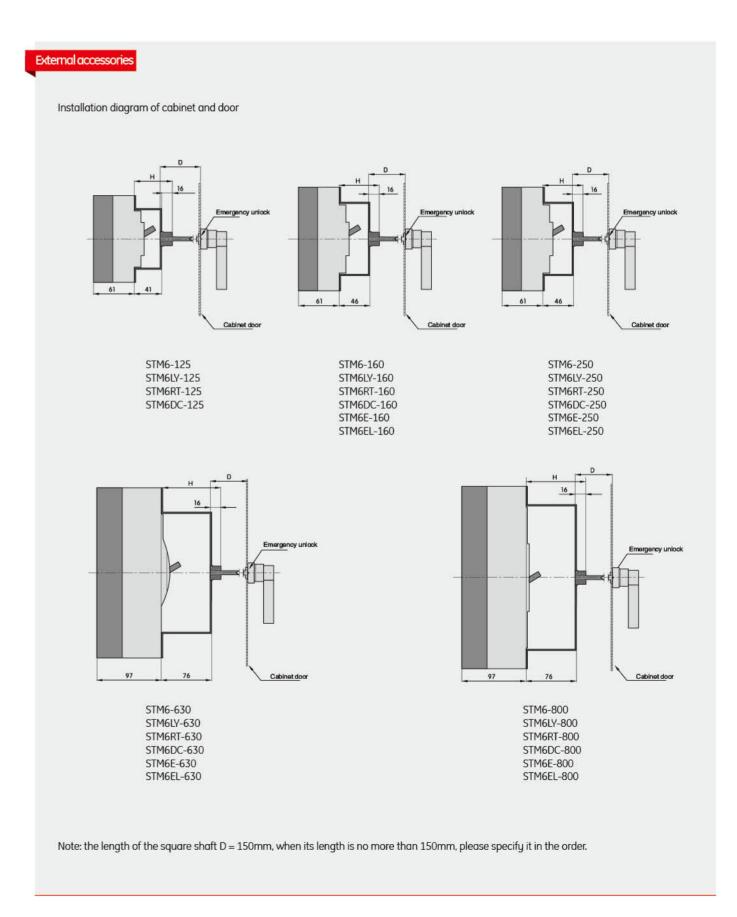
STM6-250 STM6LY-250 STM6RT-250 STM6DC-250 STM6E-250 STM6EL-250





STM6-630 STM6LY-630 STM6RT-630 STM6DC-630 STM6E-630 STM6EL-630

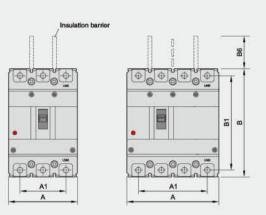
STM6LY-800 STM6RT-800 STM6DC-800 STM6E-800 STM6EL-800

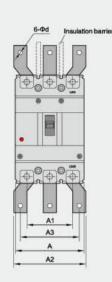


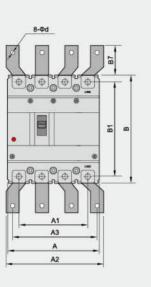


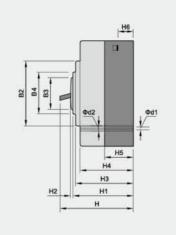


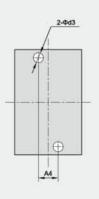
# Front-board outline of installation dimension

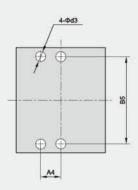










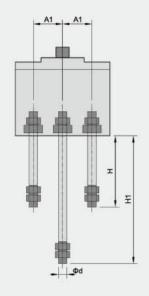


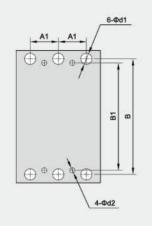
Model						Outli	ne dim.				- 20		27.5			0.5	93 I	Out	line di	m.	72	273			0.0	75	2003	24		Service and	allation dim.	Terminal screw
Moulded-case	Residual-current	Thermomagnetic	DC : 31 1	Electronic	Electronic adjustable		Α	A	1	А	2	A3	5	ВВ	1 Ba	2 B3	B4	В6	В7	Н	H1	H2	НЗ	H4 I	H5 H	16 O	dΦ¢	l1 Фd2	Фd3	3 A4	B5	
circuit breaker (MCCB)	circuit breaker (RCCB)	adjustable circuit breaker	DC circuit breaker	adjustable circuit breaker	residual-current circuit breaker	3P	4P	3P	4P	3P	4P	3P	4P												Ì							
STM6-125S	STM6LY-125S	12	2	2		75	100	50	75	125	ä		- 1	30 11	4 84	50	59	50	125	90	72	4	68	61	40 2	23 -	4.!	5 8.5	5	25	111	M6/M8
STM6-125H	STM6LY-125H	12	2	2	25	75	100	50	75	124	2	12	- 1	30 11	4 84	50	59	50	2:	90	72	4	68	61	40 2	23	- 4.5	5 8.5	5	25	111	M6/M8
STM6-160S	STM6LYL-160S	STM6RT-160S				90	120	60	90	17/	-	- 5	- 1	55 13	4 10	2 50	59	50	-72	90	72	4	68	61 4	40 2	23	- 4.5	8.5	5	30	132	M8
STM6-160M	STM6LY-160M	STM6RT-160M	STM6DC-160H	STM6E-160	STM6EL-160	90	120	60	90		-	:=	- 1	55 13	4 10	2 50	59	50		90	72	4	68	61	40 2	23	- 4.1	8.5	5	30	132	M8
STM6-160H	STM6LY-160H	STM6RT-160H				90	120	60	90	3 <del>.5</del> 3	-	-	- 1	55 13	4 10	2 50	59	50	3#3	115	91	4	88	81 (	60 2	23	- 4.5	5 8.5	5	30	132	M8
STM6-250S	STM6LY-250S	STM6RT-250S				105	140	70	105	141	-		- 1	65 14	4 10	2 50	59	100	120	92	72	4	68	61	40 2	23	- 4.5	5 8.5	5	35	126	M8
STM6-250M	STM6LY-250M	STM6RT-250M	STM6DC-250H	STM6E-250	STM6EL-250	105	140	70	105	121	12	1 _	- 1	65 14	4 10	2 50	59	100	121	92	72	4	68	61 4	40 2	23	- 4,5	8.5	5	35	126	M8
STM6-250H	STM6LY-250H	STM6RT-250H			:	105	140	70	105	24	2	12	- 1	65 14	4 10	2 50	59	100	2	115	91	4	88	81 (	60 2	23 1	4 4.	5 8.5	5	35	126	M8
STM6-630S	STM6LY-630S	STM6RT-630S	eruspe szeu	eruse 670		140	184	88	132	140	196	112	168 2	57 23	0 15	0 90	99	110	43	155	107	5	103	97 (	64 3	30 1	4 7	13	7	44	194	M10
STM6-630H	STM6LY-630H	STM6RT-630H	STM6DC-630H	STM6E-630	STM6EL-630	140	184	88	132	140	196	112	168 2	57 23	0 15	0 90	99	110	42	155	107	5	103	97 (	64 3	30 1	4 7	13	7	44	194	M10
STM6-800S	-	STM6RT-800S	OT1150 0 00011	OT1155 000	CT14551 000	210	280	140	210	180	250	140	210 2	75 24	3 15	0 90	102	110	87	155	107	5	103	97 (	64 2	26 1	4 8	14	7	70	243	M12
STM6-800H	STM6LY-800H	STM6RT-800H	STM6DC-800H	STM6E-800	STM6EL-800	210	280	140	210	180	250	140	210 2	75 24	3 15	0 90	102	100	87	155	107	5	103	97 (	64 2	26	8	14	7	70	243	M12

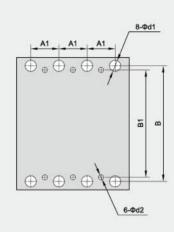




# Dimension of back-board wiring





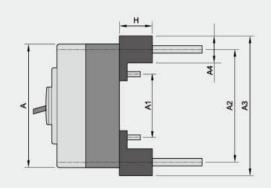


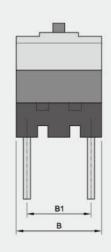
Model									Dimension of bo	ack-board wiring			
Moulded-case circuit breaker	Residual-current circuit breaker (RCCB)	Thermomagnetic adjustable circuit breaker	DC circuit breaker	Electronic adjustable circuit breaker	Electronic adjustable residual-current circuit breaker	A1	В	B1	н	H1	Φd	Фd1	Φd2
STM6-125S	STM6LY-125S	12-	<u> </u>	22	2	25	114	111	62	87	6	14	5
STM6-125H	STM6LY-125H	ক	₹-	=	57	25	114	111	62	87	6	14	5
STM6-160S	STM6LYL-160S	STM6RT-160S				30	134	132	72	112	8	18	5
STM6-160M	STM6LY-160M	STM6RT-160M	STM6DC-160H	STM6E-160	STM6EL-160	30	134	132	72	112	8	18	5
STM6-160H	STM6LY-160H	STM6RT-160H				30	134	132	72	112	8	18	5
STM6-250S	STM6LY-250S	STM6RT-250S				35	144	126	87	126	12	24	5
STM6-250M	STM6LY-250M	STM6RT-250M	STM6DC-250H	STM6E-250	STM6EL-250	35	144	126	87	126	12	24	5
STM6-250H	STM6LY-250H	STM6RT-250H				35	144	126	87	126	12	24	5
STM6-630S	STM6LY-630S	STM6RT-630S	STMCDC 67011	CTMCE CZO	CTMCEL CZO	44	230	194	83	136	18	35	7
STM6-630H	STM6LY-630H	STM6RT-630H	STM6DC-630H	STM6E-630	STM6EL-630	44	230	194	83	136	18	35	7
STM6-800S	2 <del>-1</del>	STM6RT-800S	CTMCDC 900U	CTMCF 000	CTMCEL 000	70	243	243	174	243	26	48	7
STM6-800H	STM6LY-800H	STM6RT-800H	STM6DC-800H	STM6E-800	STM6EL-800	70	243	243	174	243	26	48	7

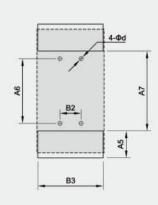




# Dimension of plug-in type wiring







Model												Dime	nsion of bo	ack-board v	wiring					
Moulded-case circuit breaker	Residual-current circuit breaker (RCCB)	Thermomagnetic adjustable circuit breaker	DC circuit breaker	Electronic adjustable circuit breaker	Electronic adjustable residual-current circuit breaker		Α	A1	A2	A3	A4	A5	A6	A7	Н	В	B1	B2	В3	Φd2
STM6-125S	STM6LY-125S	24		-	-	-	130	54	114	140	29	31	54	80	48	75	50	25	78	5.2
STM6-125H	STM6LY-125H	2	=	=	4		130	54	114	140	29	31	54	80	48	75	50	25	78	5.2
STM6-160S	STM6LYL-160S	STM6RT-160S					155	54	134	168	38	40	54	92	52	90	60	30	93	6.5
STM6-160M	STM6LY-160M	STM6RT-160M	STM6DC-160H	STM6E-160	STM6EL-160		155	54	134	168	38	40	54	92	52	90	60	30	93	6.5
STM6-160H	STM6LY-160H	STM6RT-160H					155	54	134	168	38	40	54	92	52	90	60	30	93	6.5
STM6-250S	STM6LY-250S	STM6RT-250S					165	54	144	182	45	47	54	90	50	105	70	70	108	6.5
STM6-250M	STM6LY-250M	STM6RT-250M	STM6DC-250H	STM6E-250	STM6EL-250		165	54	144	182	45	47	54	90	50	105	70	70	108	6.5
STM6-250H	STM6LY-250H	STM6RT-250H				-	165	54	144	182	45	47	54	90	50	105	70	70	108	6.5
STM6-630S	STM6LY-630S	STM6RT-630S	CTMCDC C7011	CTMC5 670	CT14551 670		257	140	230	282	55	55	140	171	60	134	87	44	136	8.2
STM6-630H	STM6LY-630H	STM6RT-630H	STM6DC-630H	STM6E-630	STM6EL-630		257	140	230	282	55	55	140	171	60	134	87	44	136	8.2
STM6-800S	æ	STM6RT-800S	CTMCDC 00011	CTMCE 000	STM6EL-800		275	155	243	298	55	56	155	187	60	206	140	70	208	8.2
STM6-800H	STM6LY-800H	STM6RT-800H	31140DC-800H	STM6DC-800H STM6E-800			275	155	243	298	55	56	155	187	60	206	140	70	208	8.2







#### Operating characteristics

1. Power distribution circuit breaker are charged for every poles at the same time when the ambient air temperature is +40°C, its inverse time action characteristics without humidity compensation are as shown in the following table:

Name of test current	Multiple of setting current	Conventional time	Initial state		
		ln <b>≤</b> 63 63 <ln< th=""><th></th></ln<>			
Conventional non-tripping current	1.05	≥1h ≥2h	Cold state		
Conventional tripping current	1.30	<1h <2h	Thermal state		

2. Motor protection circuit breaker are charged for every poles at the same time when the ambient air temperature is +40 °C , its inverse time action characteristics without humidity compensation are as shown in the following table:

Name of test current	Multiple of setting current	Conventional time	Initial state		
		In≤800			
Conventional non-tripping current	1.0	<b>≥</b> 2h	Cold state		
Conventional tripping current	1.2	<2h	Thermal state		

- 3. Operating characteristics under short-circuit condition:
- ◆ Short-circuit current setting value of instantaneous release of the power distribution circuit breaker is 10ln;
- ◆ Short-circuit current setting value of instantaneous release of the motor protection circuit breaker is 12ln;
- ◆ Accuracy of the short-circuit current setting value of instantaneous release is ± 20%.

#### Installation

- ◆ Check whether the nameplate of the circuit breaker meets the requirements before installation, the crosssection of copper wire should be matched with the rated current of the circuit breaker.
- ◆ All fasteners must be tightened during installation.
- The cover of circuit breaker can not be opened, its parameters has been set and qualified in the factory, please do not adjust it.

#### Use and maintenance

- ◆ The handle of the circuit breaker should be moved upwards and downwards for several time before switching on the circuit breaker, the operation mechanism should act reliably.
- ◆ After the control circuit comes across general failures, the circuit breaker is opened, then the handle is in a vertical
- ◆ If user wants to make the breaker closing, firstly, find out the cause and remove the fault, pull the handle down. make the operating mechanism re-trip, then pull the handle to the position "close", and the circuit breaker can be closed.
- The surface of the circuit breaker should be cleaned regularly to maintain good insulation.
- Protect the circuit breaker from impact or fall, or attack of rain or snow during operation, storage and
- ◆ Circuit breakers produced by the company are guaranteed for 18 month since the date of production or the date of purchase (as per the date of the invoice). The company will be responsible for free replacement or repair for the defective product caused by manufacturing issue on the premise of intact seal.

#### Endosed documents

The documents such as Certificate of Conformity, Operating Manual, Packing List and so on should be enclosed.

#### Order guide

- ◆ Name and model of circuit breaker;
- Rated current and setting multiple of circuit breaker;
- ◆ Accessory name and rated voltage.

eg.: Order 50 sets of circuit breaker of power distribution 125 type, with rated current 100A standard type AC 380V undervoltage release, complex release, N-pole is not installed with overcurrent release and will close and open together with other three poles.

Please write like this: STM6-125L74370 100A 1 B Q 3, circuit breaker 50 sets.