

YCM8-□ PV series


DC plastic shell circuit breaker

OPERATION INSTRUCTION

Standard: IEC/EN60947-2

CNC

Deliver
Power For Better Life

 Before installing and using this product, please read this manual carefully and pay more attention to safety.

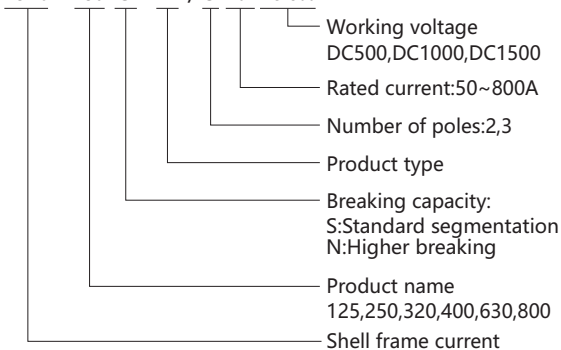
1. Product description

YCM8- □PV series PVotovoltaic special DC molded case circuit breaker is applicable to DC power grid circuits with rated voltage up to DC1500V and rated current 800A. The DC circuit breaker has overload long delay protection and short circuit instantaneous protection functions, which are used to distribute electric energy and protect the line and power supply equipment from overload, short circuit and other faults.

Products conform to: IEC/EN60947-2

2. Type and meaning

YCM8 - 250 S PV / 3 125A DC1500



3. Technical data

Model		YCM8- 125PV				YCM8- 250PV			YCM8- 320PV		
Shell frame current Inm(A)		125				250			320		
Number of poles of products		2				2	3		2	3	
DC working voltage(V)		250	500			500	1000	1500	500	1000	1500
Rated insulation voltageUi(V)		DC1000				DC1250	DC1500		DC1250	DC1500	
Rated imPVlse withstand voltage Uimp(KV)		8				8	12		8	12	
Rated current In(A)		50, 63, 80, 100, 125				63, 80, 100, 125, 140, 160, 180, 200, 225, 250			280, 315, 320		
Ultimate short-circuit breaking capacity Icu (kA)	S	40	40(5ms)			50	20	20	50	20	20
	N	/				/			/		
Running short-circuit breaking capacity Ics(kA)		Ics=100%Icu									
Wiring method		Up in and down out, down in and up out, Down in and up out, up in and down out(3P)									
Isolation function		Yes									
Tripping type		Thermal-magnetic type									
Electrical life(time)		5000	3000			3000	2000	1500	3000	2000	1500
Mechanical life(time)		20000				20000			20000		
Attached accessories		Shunt, Alarm, Auxiliary, Manual operation, Electric operation									

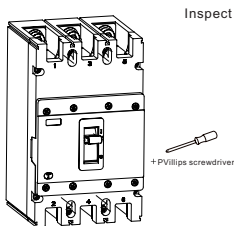
Model		YCM8- 400PV				YCM8-630PV				YCM8- 800PV			
Shell frame current Inm(A)		400				630				800			
Number of poles of products		2		3		2		3		2		3	
DC working voltage(V)		500	1000	1500	1500	500	1000	1500	1500	500	1000	1500	1500
Rated insulation voltageUi(V)		DC1500				DC1500				DC1500			
Rated imPVlse withstand voltage Uimp(KV)		12				12				12			
Rated current In(A)		225, 250, 315, 350, 400				500, 630				225, 250, 315, 350, 400			
Ultimate short-circuit breaking capacity Icu (kA)	S	65	35	15	15 ^① 20 ^②	65	35	15	15 ^① 20 ^②	65	35	15	15 ^① 20 ^②
	N	70	40	20	20 ^① 25 ^②	70	40	20	20 ^① 25 ^②	70	40	20	20 ^① 25 ^②
Running short-circuit breaking capacity Ics(kA)		Ics=100%Icu											
Wiring method		Up in and down out, down in and up out, Down in and up out, up in and down out(3P)											
Isolation function		Yes											
Tripping type		Thermal-magnetic type											
Electrical life(time)		1000	1000	700	500	1000	1000	700	500	1000	1000	700	500
Mechanical life(time)		10000				5000				10000			
Attached accessories		Shunt, Alarm, Auxiliary, Manual operation, Electric operation											

Note: ① 2P connection in series, ② 3P connection in series

4. Usage Information

- ① The normal operating environment temperature of the product is $-5^{\circ}\text{C}\sim+40^{\circ}\text{C}$;
Note: If used within the range of -35°C to $+70^{\circ}\text{C}$, please consult
- ② with the manufacturer for use When the altitude exceeds 4000m, please consult with the manufacturer for use;
- ③ Pollution level: Level 3;
- ④ Main circuit installation category: III;
- ⑤ Shell protection level: IP20;

5. Inspection and testing

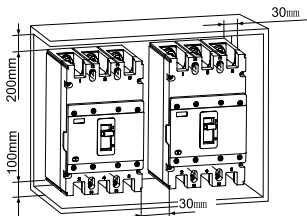


Model	Recommended installation screws	Quantity
YCM8-250/320PV	M4 × 90	4
YCM8-400/630 /800PV	M5 × 85	2



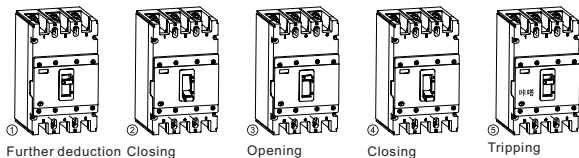
1. Determine product technical parameters;
2. The installation, operation, and maintenance work of the product is limited to Limited to professionally qualified personnel.

Minimum installation distance



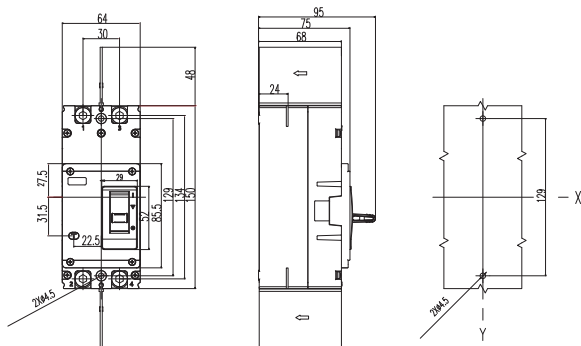
Ensure minimum installation distance

Pre-test

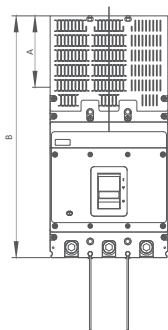


6. Appearance and installation dimensions

YCM8-125PV



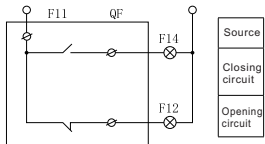
Installation drawing of YCM8-PV with arcing cover



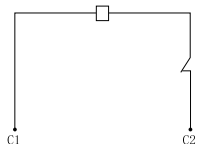
Circuit breaker	Arcing cover length A	Total length B
YCM8-250/320PV	64	245
YCM8-400/630/800PV	64	314

7.Attachment Information

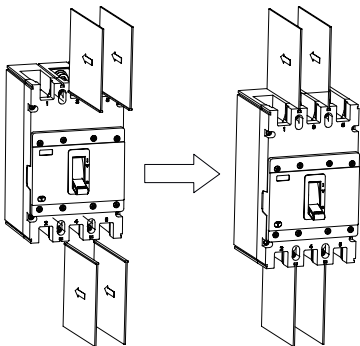
Auxiliary contact wiring diagram



Wiring diagram of sPVnt release

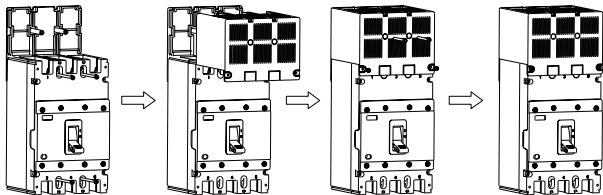


Installation of interPVase arc separation plate



1. Be sure to install it before running the product Protective cover
2. Check if the product wiring is correct
3. Insulation resistance to ground after installation The inspection should not be less than 10M Ω

Installation of partitions and shields



8. Warranty period

Under normal storage and transportation conditions, and with the product packaging or product itself intact, the product has a warranty period of 24 months from the date of production. The following situations are not covered by the warranty:

- ① Damage caused by improper use, storage, and maintenance by users.
- ② Damage caused by non company designated institutions or personnel, or self disassembly and repair.
- ③ The product has exceeded the warranty period.
- ④ Damage caused by force majeure factors.

9. Environmental protection

In order to protect the environment, when this product or its components are scrapped, please dispose of them properly as industrial waste; Or it can be handed over to a recycling station for classification, disassembly, recycling, and reuse in accordance with relevant national regulations.

Safety tips

- (1) The product is strictly prohibited from being installed in environments containing flammable and explosive gases or damp condensation, and it is strictly prohibited to operate the product with wet hands;
- (2) During product operation, it is strictly prohibited to touch conductive parts of the product
- (3) When installing, maintaining, and maintaining products, it is necessary to ensure that the circuit is powered off;
- (4) Do not install in areas where gas media can corrode metals and damage insulation;
- (5) To avoid dangerous accidents, the installation and fixation of the product must strictly follow the requirements of the manual.



CERTIFICATE

Product Model: YCM8-□ PV series

Inspector: **CNC001**

Standard: IEC/EN60947-2

Production date: Printed on the product
or package.

This product is qualified according
to the delivery inspection

A vertical red rectangular logo with the letters 'CNC' in white, bold, sans-serif font.

YCM8-□ PV series

CNC ELECTRIC

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