

## YCM8E Electronic adjustable circuit breaker



### General

YCM8E 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 1250A.

### Operating conditions

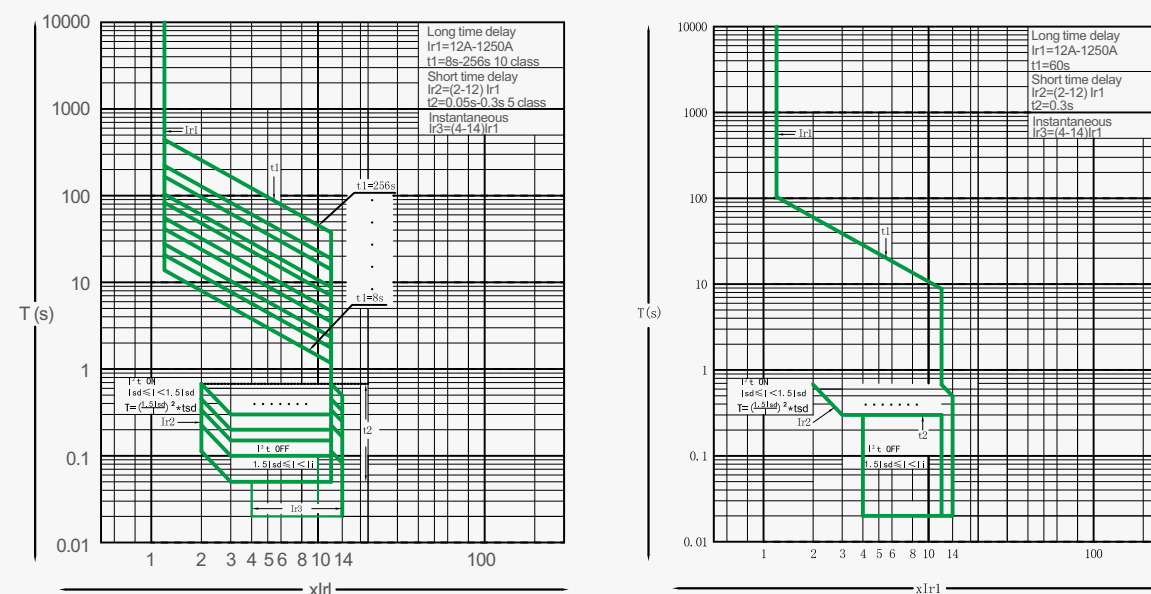
- Altitude up to 2000m;
  - Ambient medium temperature should be within -5°C to +40°C (+45°C for marine products);
  - It can withstand the effect of damp air;
  - It can withstand the effect of salt fog or oil mist;
  - It can withstand the effect of moulds;
  - It can withstand the effect of nuclear 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 over-current indication, load current indication, digital current analysis technology, and it can achieve a higher level of protection.

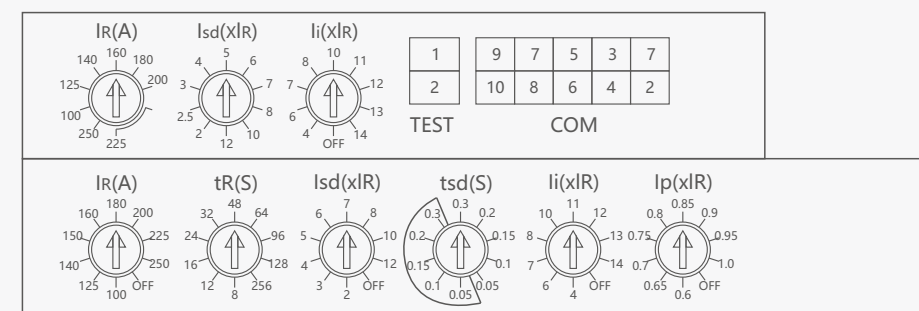
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### Curve



### Panel and function description

Intelligent release panel



### Tripping test port (TEST)

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

### Panel adjustment knob as follows in turn:IR(A) I<sub>sd</sub>(xIR) I<sub>i</sub>(xIR)

- IR: Overload long delay tripping setting current;
- I<sub>sd</sub>: Short-circuit short delay tripping setting current;
- I<sub>i</sub>: Short-circuit instantaneous tripping setting current;

### The rest parameters are set by factory default, or set by remote communication, as follows:

- tR: Overload long delay setting time, factory default: 60s;
- t<sub>sd</sub>: Short-circuit short delay setting time, factory default: 0.1s;
- I<sub>p</sub>: Overload pre-alarm setting current, factory default: 0.85\*IR;

## Distribution Apparatus

### YCM8E Electronic adjustable circuit breaker

#### Type designation

YCM8 E - 160 P / 3 400 2 A

Type	The adjustable type	Frame Inm	Code of operating mode
YCM8	E	160	P
MCCB	E: electronic adjustable	nm=160 Inm=250 Inm=400 Inm=800	P: electric operation Z: rotary handle W: direct operation ① Electric operation DC3

Poles	Tripping mode and inner accessory	Application
3	□00	2
3: three poles 4: four poles	The intelligent tripping device Accessory code, see accessory table	1: for distribution 2: for protecting the motor

#### Option for 4P MCCB

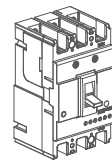
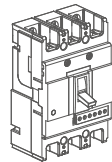
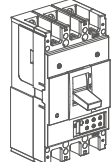
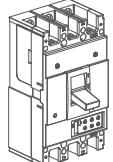
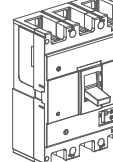
A

- 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

## Distribution Apparatus

### YCM8E Electronic adjustable circuit breaker

#### Technical data

Frame Current(A)	160	250	400	630	800	
Type	YCM8E-160H	YCM8E-250H	YCM8E-400H	YCM8E-630H	YCM8E-800H YCM8E-1000H YCM8E-1250H	
Pole number	3,4	3,4	3,4	3,4	3,4	
						
Rated Current (A)	12-32, 25-63, 40-100,63-160	100-250	200-400	400-630	400-630, 500-800, 630-1000, 850-1250	
Rated voltage (V)	AC400V	AC400V	AC400V	AC400V	AC400V	
Rated insulation voltage (V)	AC1000V	AC1000V	AC1000V	AC1000V	AC1000V	
Short Circuit Breaking Capacity (kA) Icu/Ics	AC400V 35/25	35/25	50/35	50/35	50/35	
Operating Circle Times	Charged ON	1500	1000	1000	1000	
	Not charged OFF	7000	7000	4000	4000	
Dimension(mm) a-b-c-ca	3P	90-155-88-115	105-165-88-115	140-257-103-155	140-257-103-155	210-257-103-155
	4P	120-155-88-115	140-165-88-115	185-257-103-155	185-257-103-155	280-257-103-155
Weight(kg)	3P	1.8	2.1	5.5	5.7	5.7
	4P	2.3	2.6	7.0	7.5	7.5
Electric operating device (MD)	•	•	•	•	•	
External drive handle	•	•	•	•	•	
Automatic release	Electronic type	Electronic type	Electronic type	Electronic type	Electronic type	

