

# YCM7RE Electronic Adjustable MCCB



### General

YCM7RE Series Electronic circuit breaker is suitable for ac 50 Hz, rated voltage 690V, the rated working current 800A low voltage power grid.

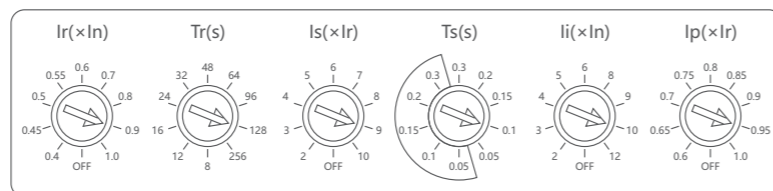
### Suitable Working Environment and Installation Condition

1. Altitude less than 2000m
2. Ambient medium temperature is from -5°C to +40°C (+45°C for shipping product)
3. Humidity resistance
4. Bacteria resistance
5. Nuclear radiation resistance
6. Max lean degree is 22.5 degree.
7. Can operate normally when it comes to vibration of ship.
8. Can operate normally when it comes to earthquake(4g).
9. The medium should be no risk of blasting and can't erode the metal and damage insulating gas as well as conductive dust.
10. Work in the places where is no rain and snow.

### Features

1. Above MCCB can put accessories such as, UVT, Shunt, Aux, Alarm contact, Motor-driven operation, Mechanism, Rotary handle.
2. Function available as over-load long-time delay, short-circuit time-delay, instant protection.
3. Earth-fault protection, Thermal analog Pre-alarm, indication, Over-current, indication operational current.

### Panel and Function



Notice:

1. Ir: Adjustable setting value of over-load protection, it could be adjusted as per customer's requirements;
2. Tr: Adjustable setting value of long time-delay operated time  $Tr \pm 20\%$ , tripping time at the status of  $6I_r$  can be set as per customer's requirements;
3. Is: Adjustable setting value of short time-delay current;
4. Ts: Adjustable setting value of short time-delay operated time, it is divided into two types: fixed time limit  $T_s$  (0.05s, 0.1s, 0.15s, 0.2s, 0.3s) and reverse time limit  $T_s$  (0.05s, 0.1s, 0.15s, 0.2s, 0.3s).
5. li: Adjustable setting value of instant current;
6. lp: Adjustable setting value of over-load alarm current.

# YCM7RE Electronic Adjustable MCCB

### Selection Guide

YCM7 RE - 160 P/3 300 160A 2 A

Type	The adjustable type	Current frame code optional
YCM7	RE	160
MCCB	RE: Electronic adjustable	Inm=160 Inm=250 Inm=400 Inm=630 Inm=800

Operation	Poles	Tripping mode and inner accessory
P	3	300
P: Motor-driven Z: Rotation handle W: Direct	3: 3P 4: 4P	The intelligent tripping device  Remark: The last two figures means accessory code (see accessories list)

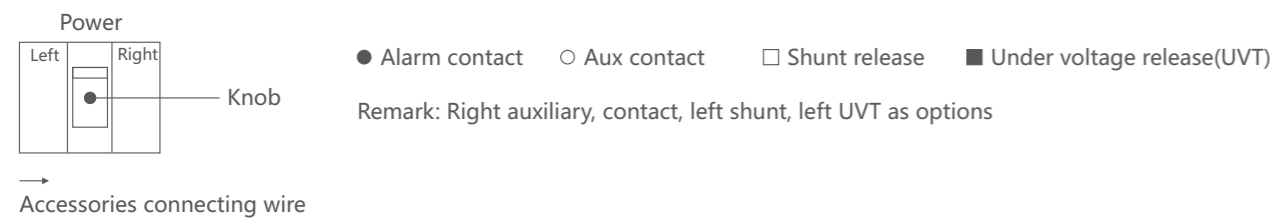
Application	Option for 4P MCCB
2	A
1: Power distribution 2: Motor-protection	A: N pole without protection, N pole is always ON B: N pole without protection, N pole makes with the other three poles  Remark: If the customer has no specific requirements, the quadrupole product will be the default for the B class

## Distribution Apparatus

### YCM7RE Electronic Adjustable MCCB

#### YCM7RE 3P Accessories Code

Model		YCM7RE-160	YCM7RE-250	YCM7RE-400	YCM7RE-630	YCM7RE-800
No. of poles		3	3	3	3	3
Code	Accessory name					
308	Alarm contact					
310	Shunt release					
320	Auxiliary contact					
330	Under-voltage release					
340	Shunt auxiliary contact					
360	Two groups auxiliary contacts					
370	Auxiliary contact UVT					
318	Shunt alarm contact					
328	Auxiliary alarm contact					
338	UVT alarm contact					
348	Shunt auxiliary alarm contact					
368	Two groups aux alarm contact					
378	Aux contact UVT alarm contact					
380	Two groups aux contact and shunt					

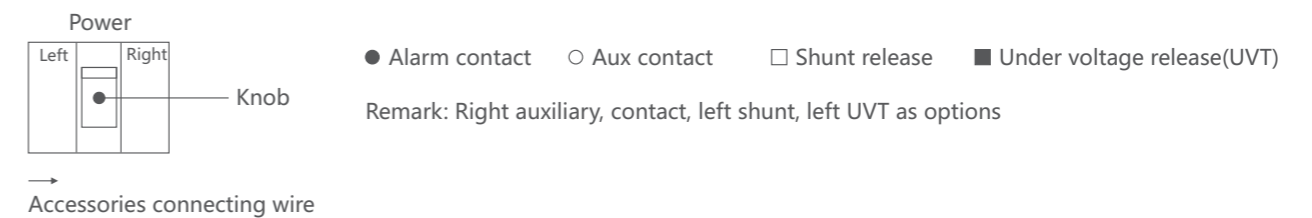


## Distribution Apparatus

### YCM7RE Electronic Adjustable MCCB

#### YCM7RE 4P Accessories Code

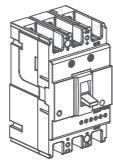
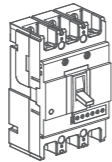
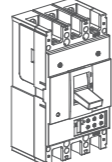
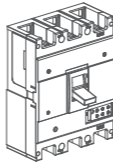
Model		YCM7RE-160	YCM7RE-250	YCM7RE-400	YCM7RE-630	YCM7RE-800
No. of poles		4	4	4	4	4
Code	Accessory name					
308	Alarm contact					
310	Shunt release					
320	Auxiliary contact					
330	Under-voltage release					
340	Shunt auxiliary contact					
360	Two groups auxiliary contacts					
370	Auxiliary contact UVT					
318	Shunt alarm contact					
328	Auxiliary alarm contact					
338	UVT alarm contact					
348	Shunt auxiliary alarm contact					
368	Two groups aux alarm contact					
378	Aux contact UVT alarm contact					
380	Two groups aux contact and shunt					



## Distribution Apparatus

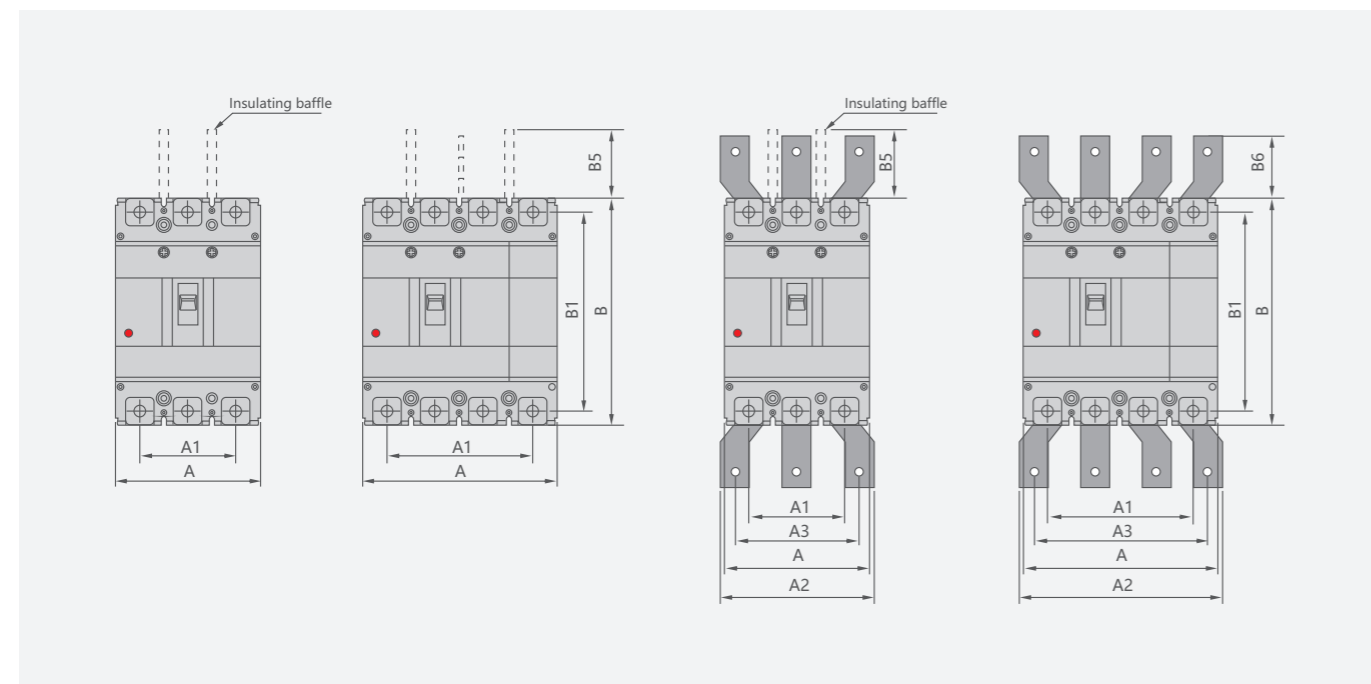
### YCM7RE Electronic Adjustable MCCB

#### Technical Data

Type	YCM7RE-160M	YCM7RE-250M	YCM7RE-400M/630M	YCM7RE-800M
Frame(A)	160	250	400 630	800
Number of poles	3,4	3,4	3,4	3,4
Products				
Rate current adjustable range(A)	16-32, 40-100, 64-160	100-250	160-400, 252-630	252-630, 320-800
Rated voltage Ue(V)	AC400V	AC400V	AC400V	AC400V
Rated insulation voltage Ui(V)	AC800V	AC800V	AC800V	AC800V
Short-circuit breaking capacity Icu/1cs(kA)	AC400V 35/25	35/25	50/35	50/35
Operation life (cycle)	ON	1500	1000	1000
	OFF	8500	7000	1500
Motor-driven operation	•	•	•	•
External rotary handle	•	•	•	•
Automatic tripping device	Electronic type	Electronic type	Electronic type	Electronic type

• Means accessory as option

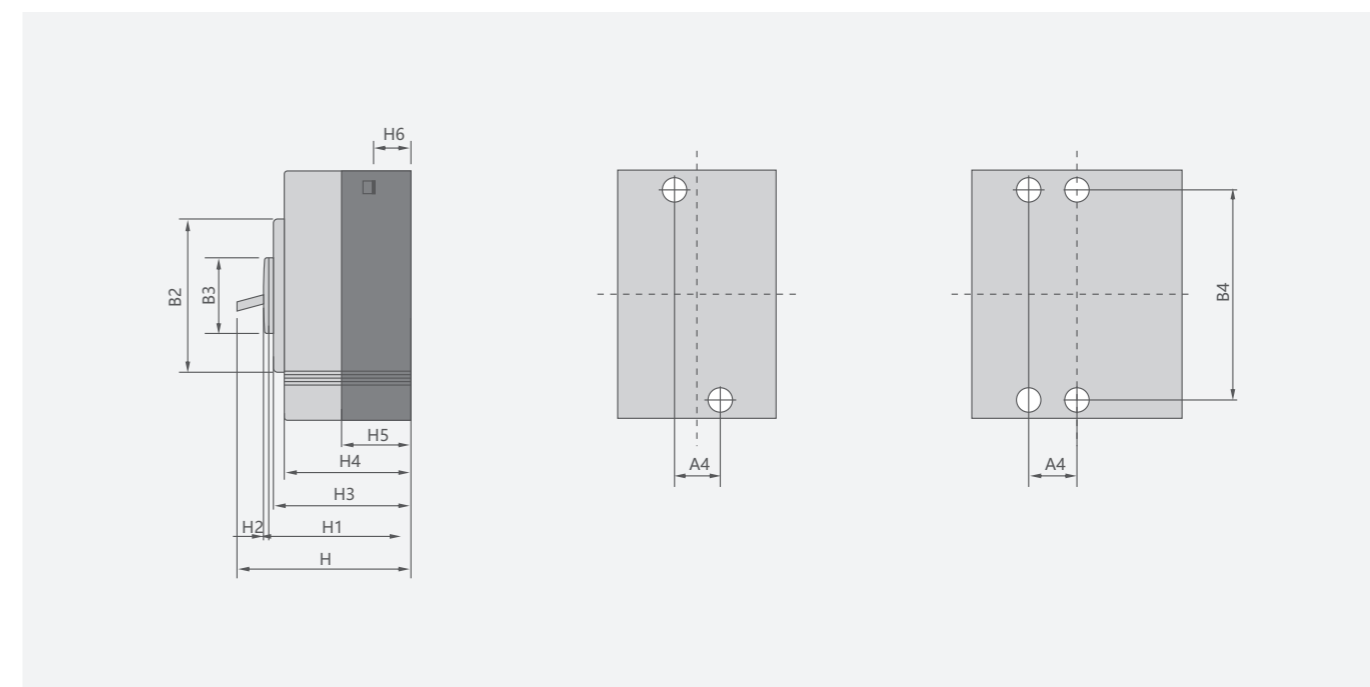
#### Front Connection & Overall



## Distribution Apparatus

### YCM7RE Electronic Adjustable MCCB

#### Outline Overall and Installing Dimensions



Thermal magnetic trip circuit breaker	Overall dimensions																			Installing dimensions		Bolt		
	A		A1		A2		A3		B	B1	B2	B3	B5	B6	H	H1	H2	H3	H4	H5	H6		A4	B4
	3P	4P	3P	4P	3P	4P	3P	3P																
YCM7RE-160M	90	120	60	90	-	-	-	-	155	134	102	50	50	-	109	83	4	68	61	20.7	24	30	132	M8
YCM7RE-250M	105	140	70	105	-	-	-	-	165	144	102	50	100	-	120	91	4	68	61	45	24	35	126	M8
YCM7RE-400M	140	185	88	132	140	196	112	168	257	230	179	90	110	42	155	107	5	105	97	45	36	44	194	M10
YCM7RE-630M	140	185	88	132	140	196	112	168	257	230	179	90	110	42	155	107	5	105	97	45	36	44	194	M10
YCM7RE-800M	210	280	140	210	180	250	140	210	275	243	192	90	110	87	155	107	5	104	97	15	24	70	243	2xM8