Distribution Apparatus

YCM7YV MCCB



General

YCM7YV series electronic plastic case circuit breaker (hereinafter referred to as: circuit breaker) is suitable for low-voltage power grids with AC 50Hz, rated insulation voltage 800V, rated operating voltage 400V and below, and rated operating current up to 800A. The circuit breaker has overload long-delay inverse time limit, short-circuit short-delay inverse time limit, short-circuit short-delay fixed time limit, short-circuit instantaneous and under-voltage protection functions. Under normal circumstances, the circuit breaker is used for infrequent switching of circuits and infrequent starting of motors. This series of circuit breakers has isolation function, and its corresponding symbol is "

Standard: IEC60947-2.

Operating conditions

- 1. Ambient air temperature
- a)The upper limit value does not exceed +40°C;
- b)The lower limit value does not exceed -5°C;
- c)The average value over 24 hours does not exceed +35°C;
- 2. Altitude
- The altitude of the installation site does not exceed 2000m.
- 3. Atmospheric conditions

The relative humidity of the atmosphere does not exceed 50% when the ambient maximum temperature is $+40^{\circ}$ C; it can have higher relative humidity at lower temperatures; when the monthly average minimum temperature of the wettest month is $+25^{\circ}$ C, the monthly average maximum temperature of the month is $+25^{\circ}$ C. The relative humidity is 90%, taking into account condensation that occurs on the product surface due to temperature changes.

- 4. Pollution degree
- Pollution degree 3, the accessories installed in the circuit breaker have a pollution degree 2.
- 5. Installation category
- The main circuit of the circuit breaker shall be installation category III, and the auxiliary circuit and control circuit shall be installation category II.
- 6. Installation conditions.
- Circuit breakers should generally be installed vertically, usually with upward wiring, and the external magnetic field at the installation site should not exceed 5 times the geomagnetic field in any direction.

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Selection

YCM7YV	_	250	M				
Model		Shell frame	Breaking capacity				
YCM7YV		160 250 400 630	M: Standard breaking				

,	3	3	00	100-250A				
	Number of poles	Tripping method	Accessorie	Rated current				
	3:3P	3: Electronic	00: No accessories	16-32A 40-100A 64-160A 100-250A 160-400A 252-630A				

Technical data

Туре		YCM7YV-160M	YCM7YV-250M	YCM7YV-400M	YCM7YV-630M		
Frame(A)		160	250	400	630		
Number of poles		3	3	3	3		
Products					TO TO THE		
Rated current adjustable	range In(A)	16-32, 40-100, 64-160	100-250	160-400,	160-400, 252-630,		
Rated voltage Ue(V)		AC400V	AC400V	AC400V	AC400V		
Rated insulation voltage	e Ui(V)	AC800V	AC800V	AC800V	AC800V		
Short-circuit breaking capacity lcu/1cs(kA)	AC400V	35/25	35/25	50/35	50/35		
Operation life (such)	ON	1500	1000	1000	1000		
Operation life (cycle)	OFF	8500	7000	4000	4000		
Motor-driven operation		•	•	•	•		
External rotary handle		•	•	•	•		
Automatic tripping devi	ce	Electronic type	Electronic type	Electronic type	Electronic type		

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Function description

		Specifications and functions								
Classification	Describe									
Display method	LCD display+LED indicator									
Interface operation		key	•							
		Overload long delay protection function	•							
	Commont	Short circuit protection Time delayprotection								
	Current protection	Short circuit instantaneous protection function	•							
		Overload warning function								
		Undervoltage protection work								
	Voltage	Overvoltage protection function								
	protection	Lack of phase protection function								
		Power side zero break protection function								
Protection		D/LT645-2007 Multifunctional metercommunication protocol Modbus-RTu	•							
function .	Communication function	Modbus=RTU communication protocol								
		RS-485Communication hardware 1 RS-485								
	External DI/0	Communication auxiliary power input								
	port function	One DI/0 programmable control input								
		10 trip failure storage								
	Fault record	80 protection function logout events recorded	•							
	Fault lecold	10 gate position changeevents recorded	•							
		10 alarm event records								
	Time function	With year, month, day, minute and second real-time clock function								
		Voltage 0.7Ue~1.3Ue,0.5%	•							
		Current 0.2ln~1.2ln,0.5%:								
	Managem	Three-phase and total powerfactor 0.5~100005								
Measurement function	Measure electrical	Three-phase and total active power, reactivpower, apparent power								
	parameters	Three-phase and total active energy, reactive energy,apparent energy	•							
		Voltage harmonics and total voltage harmonic distortion								
		Current harmonics and total current harmonic distortion	•							

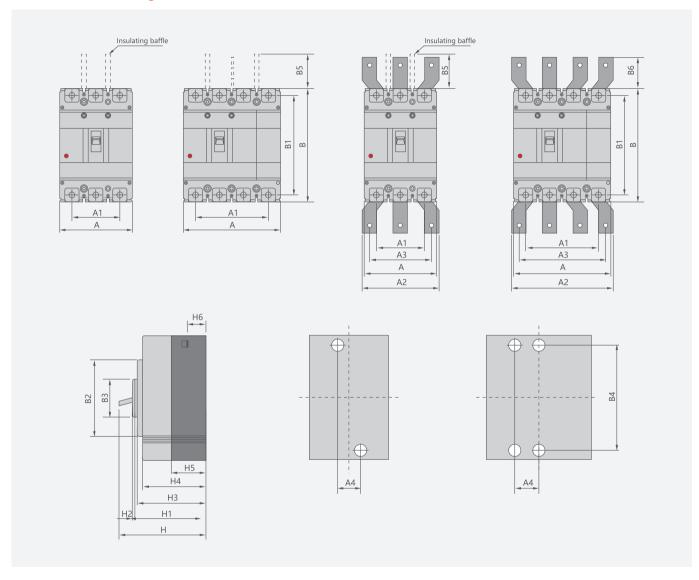
Note:

The symbol "•" indicates that it has its function: the symbol "O"indicates that this function is optional; The symbol "-" indicates that thisfunction is unavailable

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Overall and mounting dimensions(mm)



Model		Overall dimensions Mountin dimensio																						
	A A1		A2		A3 B		B1 B2 B3 B5		В6 Н		H1 H		H2 H3	H4	Н5	Н6	A4	B4	Bolt					
	3P	4P	3P	4P	3P	4P	3P	4P																
160M	105	-	70	-	-	-	-	-	165	144	104	59	110	-	120	98	2	98	84	22.5	24	35	126	M8
250M	105	-	70	-	-	-	-	-	165	144	104	59	110	-	120	98	2	98	97	22.5	24	35	126	M8
400M	140	-	88	-	140	-	112	-	257	230	179	100	110	42	155	110	3	110	97	29	30	44	194	M10
630M	140	-	88	-	140	-	112	-	257	230	179	100	110	42	155	110	3	110	97	30	32	44	194	M10
800M	210	-	140	_	180	-	140	-	257	243	192	90	110	87	155	107	5	104	97	25	25	70	243	M12