

Modular DIN Rail
YCB9-80M/H MCB



General

The YCB9-80 series miniature circuit breaker are suitable for overcurrent protection of building line facilities and similar purposes in AC 50/60Hz, rated voltage 230V/400V, rated current up to 80A circuits. They have isolation, overload, and short circuit protection functions, and can also be used for infrequent operation and switching of lines under normal circumstances. Circuit breakers are suitable for various places such as industry, commerce, high-rise buildings, and residential buildings.
Standard: IEC/EN 60898-1

Selection
Selection

YCB9	80	M	1P	C	16	Double busbar
Model	Shell grade current	Breaking capacity	Number of poles	Tripping characteristics	Rated current	Others
Miniature circuit breaker	80	M:6kA H:10kA	1P	B	1	/:Single busbar DB:Double busbar
			2P	C	2	
			3P	D	4	
			4P		6	
					10	
					16	
					20	
					25	
					32	
					40	
		50				
		63				
		80				

Note: This product can be assembled with accessories (YCB9-80 OF/SD/OF+SD/MX/MVMN/MX+OF, etc

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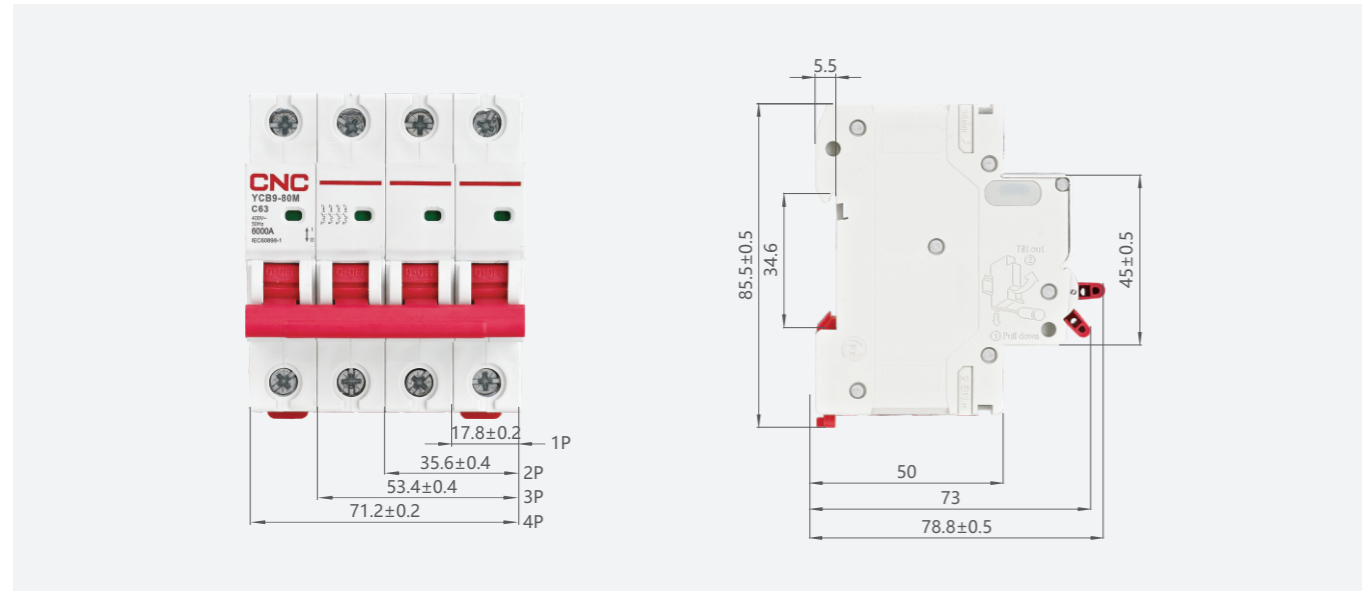
Technical data

Type	Standard		
Comprehensive data	Function		Overload, Short circuit, Isolation
	Number of poles		1P,2P,3P,4P
	Rated current I _n	A	1-80A
	Rated frequency	Hz	50/60Hz
Electrical features	Rated voltage U _e	V	230/400
	Rated insulation voltage U _i	V	500
	Rated breaking capacity I _{cn}	A	M:6000 H:10000
	Rated impulse withstand voltage U _{imp} (1.2/50)	kA	4
	Pollution degree		2
	Use category		II、III
	Trip type		Thermal magnetic release
	Thermal magnetic tripping characteristics		B,C,D
	Electrical and mechanical accessories		<input type="checkbox"/>
	Mechanical features	Mechanical life	Times
Electrical life		Times	10000
Protection degree			IP20
Antihumidity and heat resistance			The relative humidity of the air is not more than 50% when the ambient air temperature is +40°C, and it can have a higher relative humidity at a lower temperature
Reference ambient temperature		°C	30
Ambient temperature		°C	-5°C-+40°C, the average value of 24h does not exceed +35°C
Height		m	Not exceeding 2000
Busbar connection type			Single or Double bus bar Anti-mistake contact terminal block
Terminal connection type			Cable/U-type busbar/Pin-type busbar
Installation		Maximum wire capacity	Terminal size top/bottom for cable
			AWG 18-3
	Terminal size top/bottom for busbar	mm ² 25	
		AWG 18-3	
	Torque	N*m	2
		In-lbs	18
Tool	18	Phillips screwdriver or flat-blade screwdriver	
Installation		On DIN rail EN 60715 (35mm) by means of fast clip device	
Wiring method		From top or bottom	

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Overall and mounting dimensions(mm)



Tripping characteristic

Type	Test current	Tripping time	Expected result	Type	Test current	Tripping time	Expected result
B,C,D	1.13In	t ≤ 1h (In ≤ 63A)	Not tripping	B	3In	t ≤ 0.1s	Not tripping
	1.13In	t ≤ 2h (In > 63A)		C	5In	t ≤ 0.1s	
B,C,D	1.45In	t < 1h (In ≤ 63A)	Tripping	D	10In	t ≤ 0.1s	
	1.45In	t < 2h (In > 63A)		B	5In	t < 0.1s	Tripping
B,C,D	2.55In	1s < t < 60s (In ≤ 32A)	Tripping	C	10In	t < 0.1s	
	2.55In	1s < t < 120s (In > 32A)		D	20In	t < 0.1s	

Curve

