

YCB7 Series

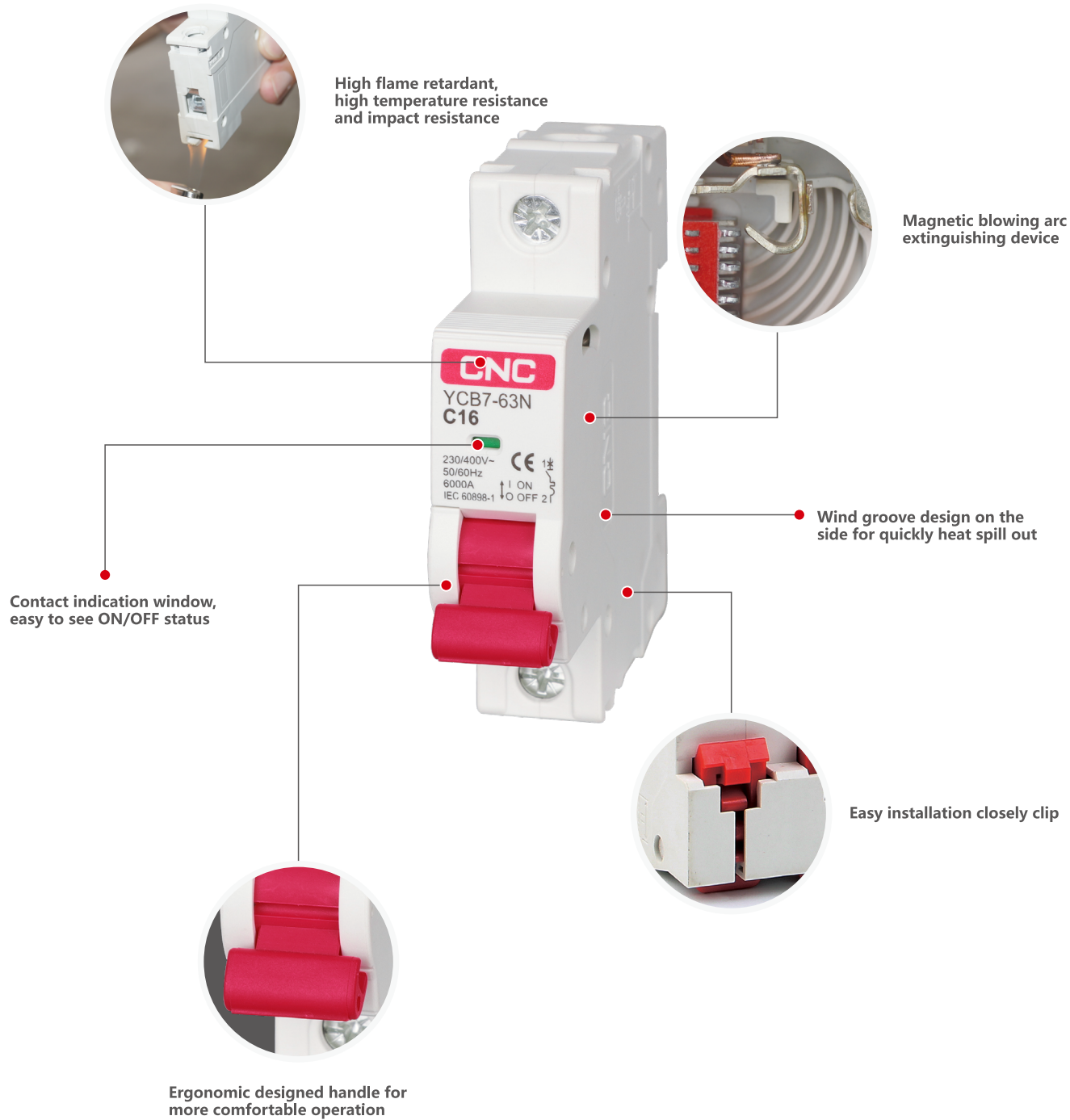
- Industrial aesthetic design
- Higher performance



CNC
ELECTRIC

YCB7 Series MCB

Overview



Modular DIN Rail

YCB7-63N MCB



General

The YCB7-63N series miniature circuit breaker are suitable for overcurrent protection building line facilities and similar purposes in AC 50/60Hz, rated voltage 230V/400V, rated current up to 63A 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

YCB7	63	N	1P	C	16
Model	Shell grade current	Breaking capacity	Number of poles	Tripping characteristics	Rated current
Miniature circuit breaker	63	N:6kA	1P 2P 3P 4P	B C D	1
					2
					4
					6
					10
					16
					20
					25
					32
					40
					50
					63

Note: This product can be assembled with accessories (YCB7-63N OF/SD/OF+SD/MX/MVMN/MX+OF, etc)

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Technical data

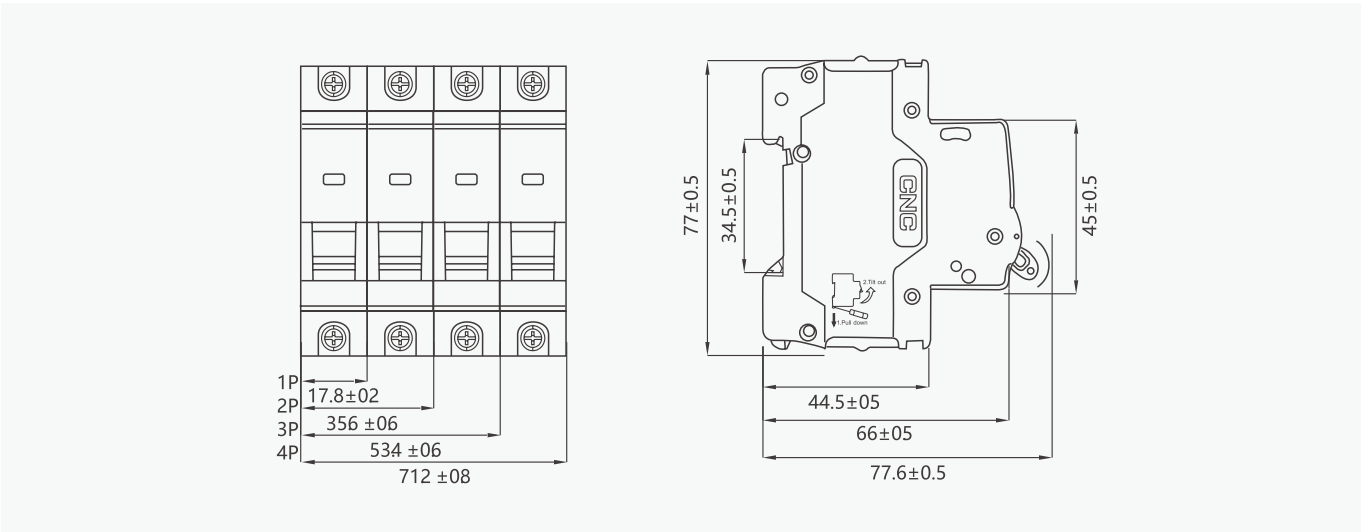
A

Type	Standard			IEC/EN 60898-1
Comprehensive data	Function			Overload, Short circuit, Isolation
	Number of poles			1P,2P,3P,4P
	Rated current In		A	1-63A
	Rated frequency		Hz	50/60Hz
Electrical features	Rated voltage Ue		V	230/400
	Rated insulation voltage Ui		V	500
	Rated breaking capacity Icn		A	6000
	Rated impulse withstand voltage Uimp(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			□
Mechanical features	Mechanical life		Times	20000
	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
Installation	Terminal connection type			Cable/Pin-type busbar
	Maximum wire capacity	Terminal size top/bottom for cable	mm²	25
			AWG	18-3
		Terminal size top/bottom for busbar	mm²	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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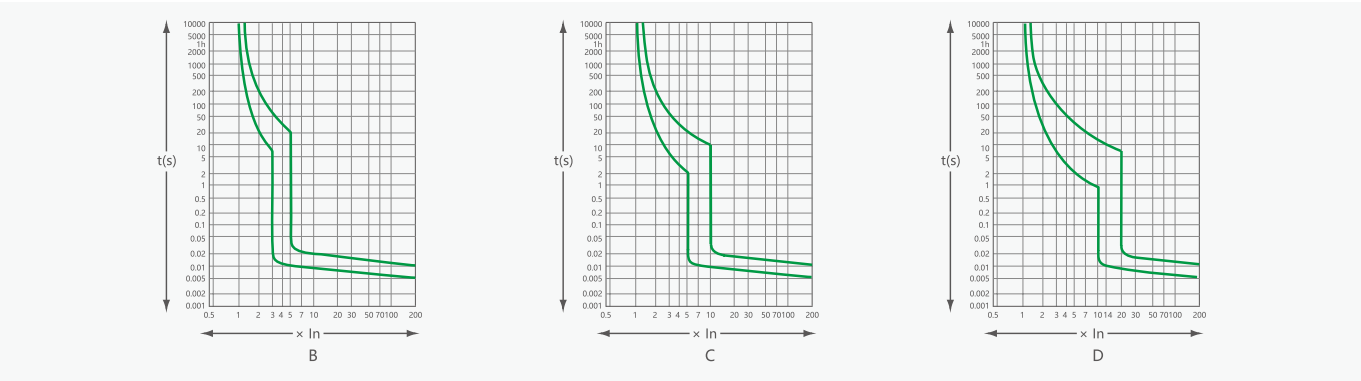
Overall and mounting dimensions(mm)



Selection

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

Curve



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Temperature drop correction table

The maximum allowable current of the circuit breaker is related to the ambient temperature of the circuit breaker. The ambient temperature refers to the temperature in the distribution box or switch cabinet where the circuit breaker is installed. The reference temperature of various circuit breakers can be found in the values of the colored rows in the table.

Product standard: GB/T10963.1 IEC60898-1 (household standard)

temperature (°C)	-5	0	5	10	15	20	25	30	35	40	45
Rated current											
1A	1.16	1.14	1.11	1.09	1.07	1.05	1.02	1.00	0.98	0.95	0.92
2A	2.30	2.26	2.22	2.18	2.13	2.08	2.04	2.00	1.96	1.92	1.88
4A	4.72	4.63	4.53	4.43	4.32	4.22	4.11	4.00	3.89	3.77	3.65
6A	6.97	6.84	6.71	6.57	6.43	6.29	6.15	6.00	5.85	5.69	5.53
10A	12.25	11.95	11.65	11.34	11.02	10.69	10.35	10.00	9.64	9.26	8.86
16A	18.72	18.35	17.98	17.60	17.22	16.82	16.42	16.00	15.57	15.13	14.68
20A	23.24	22.80	22.36	21.91	21.45	20.98	20.49	20.00	19.49	18.97	18.44
25A	29.12	28.57	28.01	27.43	26.85	26.24	25.63	25.00	24.35	23.69	23.01
32A	37.18	36.49	35.78	35.05	34.32	33.56	32.79	32.00	31.19	30.36	29.50
40A	46.66	45.77	44.86	43.93	42.98	42.01	41.02	40.00	38.96	37.88	36.78
50A	58.57	57.43	56.26	55.06	53.84	52.59	51.31	50.00	48.65	47.27	45.84
63A	74.73	73.17	71.57	69.94	68.27	66.56	64.81	63.00	61.14	59.22	57.24