

Circuit Protector

CP30F Series

Full Model Change for CP-F Series model circuit protector in conformity with Japanese and major overseas standards No terminal cover required - Finger protection (IP20 equivalent) design

Features

- Ultra-slim 17.5 mm per pole width
- Standard types conform to Japanese and major overseas standards
 IEC/EN (CE), GB (CCC), UL/CSA, KC (South Korea), JIS, PSE (Japan)
- AC/DC compatible (1P and 2P)
- Screw lift-up terminals offer finger protection (IP20 equivalent) structure without terminal cover
- Revised terminal arrangement of auxiliary circuit improves ease of wiring
- Auxiliary/alarm switch (1NO or 1NC) can be integrated (1P: 1 switch, 2P, 3P: 2 switches), standard types provided with terminal cover for auxiliary circuit
- Shunt trip equipped devices also available

Application example

Protection of control circuits and devices in various control panels



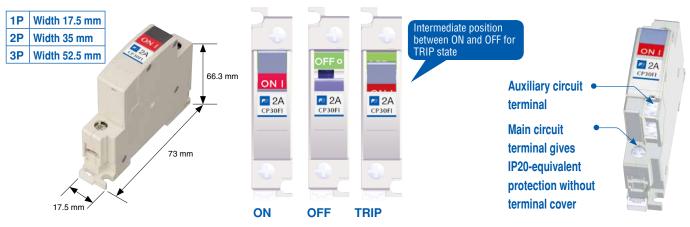
Specifications

Туре		CP30F□-1P	CP30F□-2P	CP30F□-3P		
No. of poles		1	2	3		
Rated insulation voltage (V)		250 V AC (50/60 Hz)	250 V AC (50/60 Hz)	250 V AC (50/60 Hz)		
		65 V DC compatible	125 V DC compatible	AC only		
Rated current (A)		0.1, 0.3, 0.5, 1, 2, 3, 5, 7, 10, 15, 20, 25, 30				
	250 V AC	2,500 A	2,500 A	2,500 A		
Rated breaking capacity	125 V DC	-	2,500 A	_		
	65 V DC	2,500 A	_	_		
Operating characteristic (AC/DC compatible)		Long time delay (S), medium time delay (M) and instantaneous (I) types				
Tripping mechanism		Hydraulic magnetic type				
Reference temperature		+40°C				
Operational ambient		-10 to +60°C (storage: -40 to +60°C)				
temperature		10 to 100 0 (Storage: 40 to 100 0)				
Make/break durability		10,000 operations min. (rated current supplied)				
Terminal	Main circuit	M5 screw (over 20 A)/M4 screw (up to 20 A): screw lift-up				
Terrinia	Auxiliary circuit	M3.5 screw: self-lifting				
Mounting method Front mounting type M4 screw/IEC35 mm ra						
	Auxiliary switch	Can be integrated: 1NO or 1NC contact (low-level circuit type acceptable)				
Accessories (optional)	Alarm switch	Can be integrated: 1NO or 1NC contact (low-level circuit type acceptable)				
	Delay device	Can be integrated: (long time delay and medium time delay) AC only				
Dimensions (W x L x H)		17.5 x 73 x 66.3	35 x 73 x 66.3	52.5 x 73 x 66.3		
Standard conformity and certification		(€	TOV Rheinland C SU'US (WS)	PS		

17.5 mm/pole width slim body

Easily identifiable ON/OFF/TRIP indication

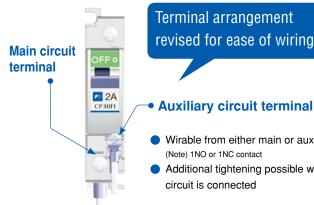
Finger protection structure



Conformity with major multi-standards

		<u>IEC</u>	(€	TÜV Rheinland	R s	Z °us	(%)		JIS	PS
1	Standard	IEC	CE mark	TÜV (Germany)	UL	CSA	GB	KC	JIS	Electrical Appliances and Materials Safety Act
	Country	International organization	Europe	Certification authority	U.S.	Canada	China	South Korea	Japan	



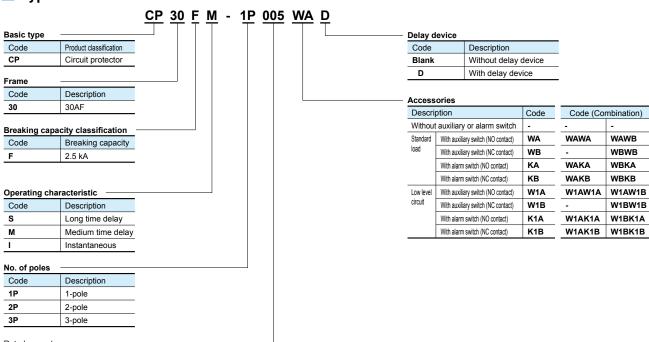


- Wirable from either main or auxiliary circuit
- Additional tightening possible while auxiliary



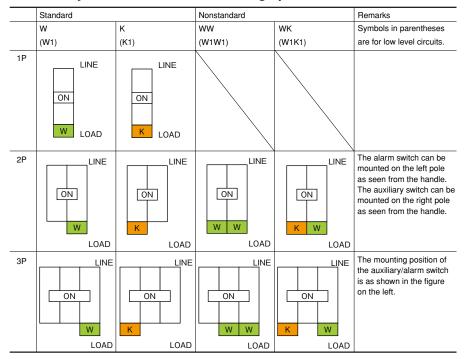
Structured to prevent screws from falling off during wiring, easy wiring with round crimp terminals.

Type number nomenclature



Rated current Example: 0.1A: 0P1 5A: 005 10A: 010

Auxiliary and alarm switch mounting specification



Accessories

Auxiliary switch (W)

The auxiliary switch operates in conjunction with the switching of the circuit protector and is used for purposes such as electrical indication of the ON-OFF state of the circuit protector.

Alarm switch (K)

The alarm switch operates only when the circuit protector is automatically interrupted and electrically indicates the automatic breaking.

 For low level circuits, auxiliary and alarm switches with high contact reliability can be produced. (W1, K1)

Auxiliary and alarm switch ratings [W, K]

	125 V AC	250 V AC	30 V DC	60 V DC	
Resistive load	3 A	1 A	2 A	1A	
Inductive load	1 A	0.5 A	1 A	0.5 A	
Minimum load	5 V, 100mA (approx. 0.5 W)				

(Note1) Inductive load: power factor 0.7 or higher, time constant 7

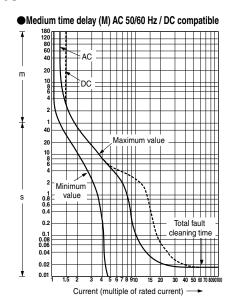
Auxiliary and alarm switch ratings [W1, K1]

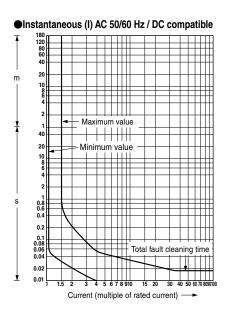
	30 V DC
Resistive load	0.1 A
Minimum load	6 V, 5 mA (approx. 0.03 W)

(Note3)The auxiliary and alarm switches operate in conjunction with the main contact of the circuit protector as shown in the table below.

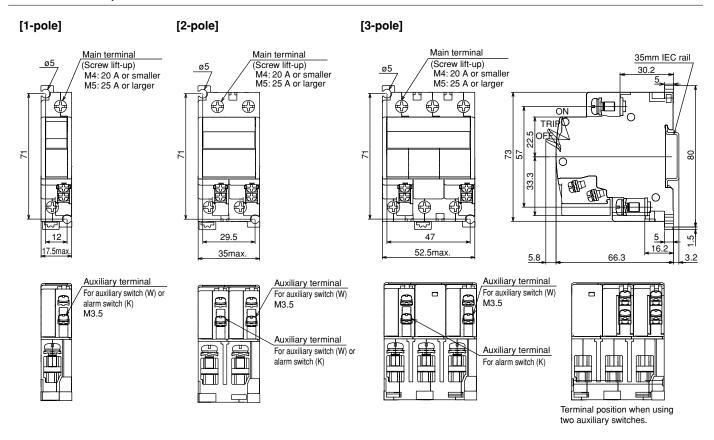
Main contact operation		ON	OFF	Trip (automatic interruption)
Auxiliary switch	NO contact	13——14	13	14
	NC contact	11 12	11	12
Alarm switch	NO contact	939	94	93 —— 94
	NC contact	91 — — 9)2	91 92

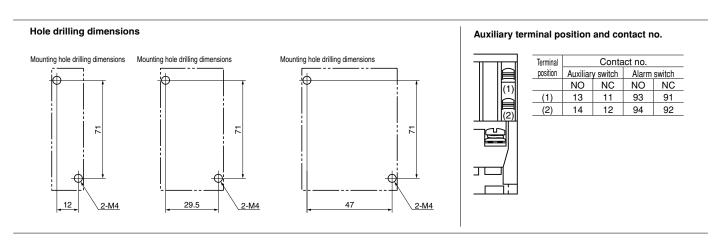
Operating characteristic curves





Dimensions, mm





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