

富士サーキットプロテクタ 仕様書

Specification of Fuji Circuit Protectors

形式/Type : CP30F□-1P、CP30F□-2P、CP30F□-3P

1. 基本仕様・性能/ Essential Specification

| 形式/Type | CP30F□-1P | CP30F□-2P | CP30F□-3P | |
|--|--|--|--|---------------|
| 極数/Number of Poles | 1 | 2 | 3 | |
| 定格電圧(V)/ Rated voltage | AC250V (50/60Hz) DC65V 両用/both use | AC250V (50/60Hz) DC125V 両用/both use | AC250V (50/60Hz) 専用/AC circuit only | |
| 定格絶縁電圧(V)/ Rated insulation voltage | AC250V (50/60Hz) DC65V | AC250V (50/60Hz) DC125V | AC250V (50/60Hz) | |
| 定格インパルス耐電圧(kV)/ Rated impulse withstand voltage | 2.5kV | | | |
| 定格電流(A)/Rated current | 0.1、0.3、0.5、1、2、3、5、7、10、15、20、25、30 | | | |
| 定格周波数(Hz)/ Rated frequency | 50-60Hz | | | |
| 定格遮断容量/ Rated interrupting capacity | 2500A (AC250V, DC65V) | 2500A (AC250V, DC125V) | 2500A (AC250V) | |
| 動作特性/ Operating characteristics (注/Note) | 低速形/Long time delay S:F5A9 17 11(5) 中速形/Medium time delay M:F5A9 17 12(5) 瞬時形/Instantaneous trip I:F5A9 17 13(5) (AC/DC 共用)/ (AC/DC both use) | | | |
| 温度補正曲線/ Ambient temperature correction curve | F5A9 17 14(5) | | | |
| 外形図/ Outline drawing | 付属なし | F5A9 03 01(5) | F5A9 03 03(5) | F5A9 03 05(5) |
| | 付属付 | F5A9 03 02(5) | F5A9 03 04(5) | F5A9 03 06(5) |
| 引外し方式/ Tripping device | 流体電磁式/Hydraulic-magnetic | | | |
| 動作方式/ Method of operation | S (自動遮断、手動リセット)/ Automatic interruption and manual resetting | | | |
| 基準周囲温度/ Standard ambient temp. | +40°C (A. T. 40°C) | | | |
| 使用周囲温度 Operating ambient temp. | 標準/Normally: -10~+60°C 保管/Storage ambient temp. : -40~+60°C | | | |
| 耐電圧性能/ Dielectric strength | AC2000V, 1分間/1 min | | | |
| 使用相対湿度/ Relative humidity | 85%以下 (結露、氷結無きこと)/ Less than 85% (Without dew condensation and freezing) | | | |
| 標高/Altitude | 2000m 以下/2000m or less | | | |
| 絶縁抵抗性能/ Insulation resistance | 100MΩ 以上 (DC500V) / More than 100MΩ (500V DC) | | | |
| 耐振動性能/ Vibration resistance | 147m/s ² (15G) | | | |
| 耐衝撃性能/ Shock resistance | 294m/s ² (30G) | | | |
| 開閉寿命/ Electrical life expectancy | 10000 回以上開閉 (定格電流通電) / More than 10000 time under the rated current | | | |

| | | | | | |
|------------------|------|----------|---------------------------|---|-----|
| DATE | NAME | APPROVED | Digital Drawings 電子化図面 | Fuji Electric FA Components & Systems Co., Ltd. | |
| DRAWN 2015-07-27 | 陳 | 浜田 | | | |
| CHECKED | 江村 | | DWG.No. | F5A9 17 01(5)b | 1/3 |

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①内容一部変更する。2015-07-27 陳

REVISION

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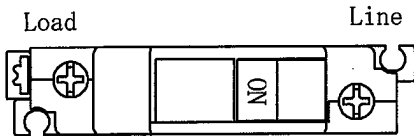
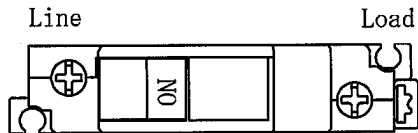
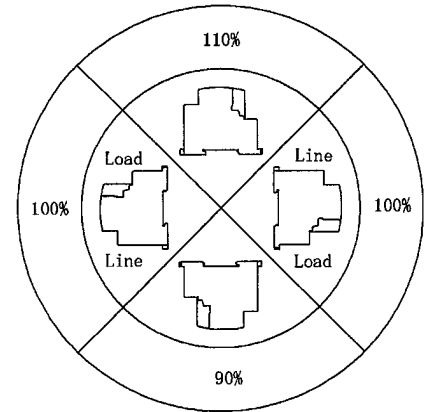
| 形式/Type | | CP30F□-1P | CP30F□-2P | CP30F□-3P |
|---------------------------------------|--------------------------------|---|------------|--------------|
| 端子/ Terminals | 主回路/Main circuit | M5 (25A~30A) /M4 (0.1~20A) :ネジアップ/Screw-up | | |
| | 補助回路/Aux. circuit | M3.5:セルフアップ/ Self-lifting terminals | | |
| 取付方式/ Mounting | 表面形/Front type | M4ねじ/IEC35mmレール両用/ For both Screw(M4) and Rail(IEC 35mm) | | |
| 付属品/ Options | 補助スイッチ/ Aux. switch(W, W1) | 可/Available ; 1a or 1b | | |
| | 警報スイッチ/ Alarm switch(K, K1) | 可/Available ; 1a or 1b | | |
| | 遅延装置 / Delay device | 可/Available ; (低速形、中速形) AC専用 (for Long or Medium time delay) AC circuit only | | |
| 外形寸法/Dimensions (W×L×H) | | 17.5×73×66.3 | 35×73×66.3 | 52.5×73×66.3 |
| 電気用品安全法 <PS>E | | 有り YES | | |
| CE マーキング CE marking | | 有り YES | | |
| CCC マーキング CCC marking | | 有り YES | | |
| IEC 規格認証 Compliance with IEC 60934 | | Certified by TUV | | |
| C-UL 認定 cUL Certification | | 有り YES | | |
| 韓国用品 KC Certification | | 有り YES | | |

(注/Note) 取付姿勢による動作電流の補正は、右図による。

Correct the rated current, with reference to the right figure.

下図の横取付は100%とする。

Horizontal mounting in the figure below is 100%.



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Fuji Electric FA Components & Systems Co., Ltd.

DWG.No. F5A9 17 01(5)b

2/3

2. 付属品仕様/Specification of accessory

(1) 補助スイッチ (W) 及び警報スイッチ (K) の定格/Ratings of Aux. switch (W) and Alarm switch (K)

| | AC125V | AC250V | DC30V | DC60V |
|----------------------|--------|--------|-------|-------|
| 抵抗負荷/ Resistive | 3A | 1A | 2A | 1A |
| 誘導負荷/ Inductive load | 1A | 0.5A | 1A | 0.5A |

(注) 誘導負荷は力率 0.7 以上 時定数 7ms 以下とする。



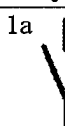
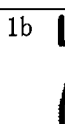
Note : Inductive load

- Power factor is more than 0.7 - Time constant is less than 7msec

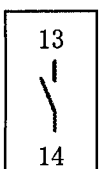
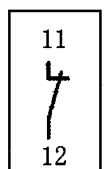
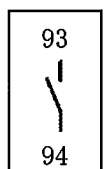
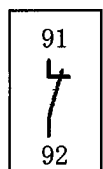
微小負荷用補助スイッチ (W1), 警報スイッチ (K1) の定格/
Switching capacity of Aux. switch (W1) and Alarm switch (K1) for low level circuit

| 定格容量/ Ratings | 微小負荷容量/ Minimum permissible Load | | |
|---------------|----------------------------------|-------|-------|
| DC30V | DC6V | DC12V | DC24V |
| 0.1A | 5mA | 2mA | 1mA |

(2) 補助スイッチ (W, W1) 及び警報スイッチ (K, K1) の動作/
Operation of Aux. switch (W), (W1) and Alarm switch (K), (K1)

| 主接点の動作/ Position of main circuit | | ON | OFF | TRIP |
|-------------------------------------|--|---------------|---------------|---------------|
| 補助スイッチ Aux. switch (W, W1) | 1a  | 閉状態 Closed | 開状態 Open | |
| | 1b  | 開状態 Open | 閉状態 Closed | |
| 警報スイッチ Alarm switch (K, K1) | 1a  | 開状態 Open | | 閉状態 Closed |
| | 1b  | 閉状態 Closed | | 開状態 Open |

(3) 補助スイッチ、警報スイッチの端子記号/
Terminal marking for Aux. Switch and Alarm switch.

| 補助スイッチ/ Aux. switch (W, W1) | | 警報スイッチ/ Alarm switch (K, K1) | |
|---|---|---|---|
| 1a | 1b | 1a | 1b |
|  |  |  |  |

| | | | | | |
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| 2015-07-27 | 陳 | 浜田 | | DWG.No. | F5A9 17 01(5)b |
| CHECKED | 江村 | | | | |
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