

To All Customers

Rep No. C17004A

December 12, 2017

Fuji Electric FA Components &
Systems Co., Ltd.

Notification regarding Production Discontinuation of Compact Thermal Overload Relay TK-E02 due to Model Change

We would like to thank you for your continued patronage of Fuji products.

We are writing to announce the production discontinuation of some of our products. Details are described below.

Please review the following information and take appropriate actions.

In addition, please make sure to inform all related sections of your company.

| | |
|--|--|
| Product name | Thermal overload relay |
| Series name | SC-E series |
| Type | TK-E02-□ The thermal rating range (A) is indicated inside the □ symbol. |
| Reason for discontinuation of production | Production discontinuation due to the launch of successor models |
| Replacement models | TK26E-□ The thermal rating code (A) is indicated inside the □ symbol. |
| Period for production discontinuation | January 31, 2018 |
| Attachments | Comparison Table of New/Old Types Product specifications, external dimensions, and operating characteristic curve data Crosschart From Old to New Type |
| Last order date | January 19, 2018 |
| Maintenance parts | There are no maintenance parts. |

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Comparison of Thermal Overload Relay Specifications



TK26E - TK-E02

1. Comparison of thermal overload relay specifications

| Type | | New TK26E | Old TK-E02 |
|--------------------------------------|--|---------------------|------------------------|
| Power consumption | | 1.7 VA/pole | 2.2 VA/pole |
| Trip class | | 10A | 10A |
| Auxiliary circuit | Contact arrangement | 1NO+1NC | 1NO+1NC |
| | Conventional free air thermal current (rated thermal current) I_{th} | 5 A | 5 A |
| | Coil load rated operational current (DC-13) | 24 V | 1.1 A |
| | | 100-120 V | 0.28 A |
| | | 200-240 V | 0.14 A |
| | Minimum operational voltage/current | 5 V DC, 3 mA | 5 V DC, 3 mA |
| Protection | Overcurrent detection (3 poles) | Standard | Standard |
| | Open phase detection | Standard | Standard |
| Ambient temperature compensation | | Yes | Yes |
| Reset method | | Manual/auto | Manual/auto |
| Changing reset method after shipping | | OK | OK |
| Trip indicator | | Yes | Yes |
| Applied product | Dial cover | Standard | Sold separately |
| | Terminal cover | Standard | Sold separately |
| | Separate mounting unit | TZ1H26E | SZ-HCE |

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2. Comparison of heater element ratings of thermal overload relays

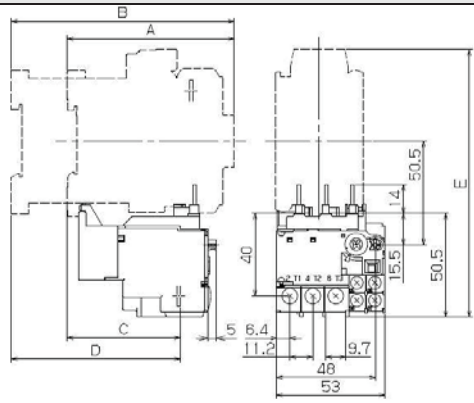
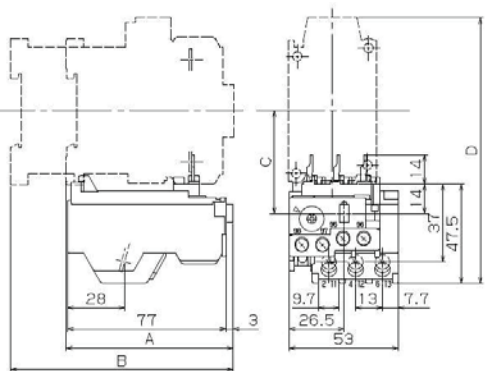
| Applicable capacity of three-phase squirrel-cage induction motor | | New | Old |
|--|----------|---------------|---------------|
| 4P 400 V | 4P 200 V | TK26E | TK-E02 |
| | | 0.1 - 0.15 A | 0.1 - 0.15 A |
| | | 0.13 - 0.2 A | 0.13 - 0.2 A |
| | | 0.18 - 0.27 A | 0.15 - 0.24 A |
| | | - | 0.2 - 0.3 A |
| 0.1 kW | | 0.24 - 0.36 A | 0.24 - 0.36 A |
| | | - | 0.3 - 0.45 A |
| | | 0.34 - 0.52 A | 0.36 - 0.54 A |
| 0.2 kW | 0.1 kW | 0.48 - 0.72 A | 0.48 - 0.72 A |
| | | 0.64 - 0.96 A | 0.64 - 0.96 A |
| 0.4 kW | | 0.8 - 1.2 A | 0.8 - 1.2 A |
| | 0.2 kW | 0.95 - 1.45 A | 0.95 - 1.45 A |
| | | 1.1 - 1.65 A | — |
| 0.75 kW | | 1.4 - 2.1 A | 1.4 - 2.2 A |
| | 0.4 kW | 1.7 - 2.6 A | 1.7 - 2.6 A |
| | | 2.2 - 3.4 A | 2.2 - 3.4 A |
| 1.5 kW | 0.75 kW | 2.8 - 4.2 A | 2.8 - 4.2 A |
| 2.2 kW | | 4 - 6 A | 4 - 6 A |
| | 1.5 kW | 5 - 7.5 A | 5 - 8 A |
| 3.7 kW | | 6 - 9 A | 6 - 9 A |
| | 2.2 kW | 7 - 10.5 A | 7 - 11 A |
| 5.5 kW | | 9 - 13 A | 9 - 13 A |
| 7.5 kW | 3.7 kW | 12 - 18 A | 12 - 18 A |
| | | 16 - 22 A | 16 - 22 A |
| 11 kW | 5.5 kW | 20 - 26 A | 20 - 25 A |

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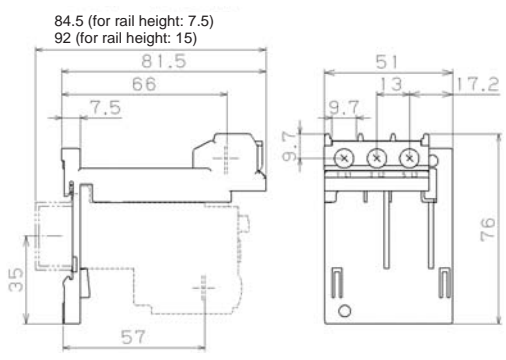
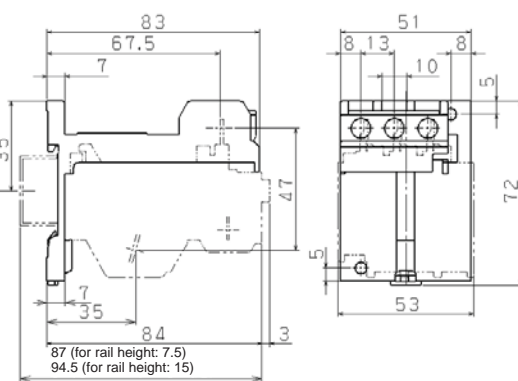
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3. Comparison of external appearance

3-1. Main unit

| New/old | New | Old | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------|---|--|------|-----|--|--|------|------|------------|--|--|----|--------------|---|---|---|--------------|----|------|-----|--------------|--|--|--|--------------|--|--|--|----|------------------|---|---|---|------------------|-----|------|-----|------------------|--|--|--|------------------|--|--|--|---|-----------------------|--|--|--|--|------|------|------------|--|--|----|--------------|---|---|---|--------------|----|----|-----|--------------|--|--|--|--------------|--|--|--|----|------------------|---|---|---|------------------|-----|----|-----|------------------|--|--|--|------------------|--|--|--|
| Type | TK26E | TK-E02 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Outline dimensions [mm] |  |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table><tr><th colspan="5">Combination contactor</th></tr><tr><th>Coil</th><th>Type</th><th colspan="3">Dimensions</th></tr><tr><td rowspan="4">AC</td><td>SC-E02, E02P</td><td>A</td><td>C</td><td>E</td></tr><tr><td>SC-E03, E03P</td><td>81</td><td>55.5</td><td>130</td></tr><tr><td>SC-E04, E04P</td><td></td><td></td><td></td></tr><tr><td>SC-E05, E05P</td><td></td><td></td><td></td></tr><tr><td rowspan="4">DC</td><td>SC-E02/G, E02P/G</td><td>B</td><td>D</td><td>E</td></tr><tr><td>SC-E03/G, E03P/G</td><td>108</td><td>82.5</td><td>130</td></tr><tr><td>SC-E04/G, E04P/G</td><td></td><td></td><td></td></tr><tr><td>SC-E05/G, E05P/G</td><td></td><td></td><td></td></tr></table> | Combination contactor | | | | | Coil | Type | Dimensions | | | AC | SC-E02, E02P | A | C | E | SC-E03, E03P | 81 | 55.5 | 130 | SC-E04, E04P | | | | SC-E05, E05P | | | | DC | SC-E02/G, E02P/G | B | D | E | SC-E03/G, E03P/G | 108 | 82.5 | 130 | SC-E04/G, E04P/G | | | | SC-E05/G, E05P/G | | | | <table><tr><th colspan="5">Combination contactor</th></tr><tr><th>Coil</th><th>Type</th><th colspan="3">Dimensions</th></tr><tr><td rowspan="4">AC</td><td>SC-E02, E02P</td><td>A</td><td>C</td><td>D</td></tr><tr><td>SC-E03, E03P</td><td>81</td><td>49</td><td>127</td></tr><tr><td>SC-E04, E04P</td><td></td><td></td><td></td></tr><tr><td>SC-E05, E05P</td><td></td><td></td><td></td></tr><tr><td rowspan="4">DC</td><td>SC-E02/G, E02P/G</td><td>B</td><td>C</td><td>D</td></tr><tr><td>SC-E03/G, E03P/G</td><td>108</td><td>49</td><td>127</td></tr><tr><td>SC-E04/G, E04P/G</td><td></td><td></td><td></td></tr><tr><td>SC-E05/G, E05P/G</td><td></td><td></td><td></td></tr></table> | Combination contactor | | | | | Coil | Type | Dimensions | | | AC | SC-E02, E02P | A | C | D | SC-E03, E03P | 81 | 49 | 127 | SC-E04, E04P | | | | SC-E05, E05P | | | | DC | SC-E02/G, E02P/G | B | C | D | SC-E03/G, E03P/G | 108 | 49 | 127 | SC-E04/G, E04P/G | | | | SC-E05/G, E05P/G | | | |
| Combination contactor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Coil | Type | Dimensions | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AC | SC-E02, E02P | A | C | E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SC-E03, E03P | 81 | 55.5 | 130 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SC-E04, E04P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SC-E05, E05P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DC | SC-E02/G, E02P/G | B | D | E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SC-E03/G, E03P/G | 108 | 82.5 | 130 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SC-E04/G, E04P/G | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SC-E05/G, E05P/G | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Combination contactor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Coil | Type | Dimensions | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AC | SC-E02, E02P | A | C | D | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SC-E03, E03P | 81 | 49 | 127 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SC-E04, E04P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SC-E05, E05P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DC | SC-E02/G, E02P/G | B | C | D | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SC-E03/G, E03P/G | 108 | 49 | 127 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SC-E04/G, E04P/G | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SC-E05/G, E05P/G | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

3-2. Separate mounting unit

| New/old | New | Old |
|-------------------------|---|--|
| Type | TZ1H26E | SZ-HCE |
| Outline dimensions [mm] |  |  |

4. Operating characteristic curve

| New/old | New | Old |
|---------|------------|------------|
| Type | TK26E | TK-E02 |
| | FIN2083211 | FIN2097235 |

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Specifications of Thermal overload relay

FE Fuji Electric FA

Type : TK26E

1. Application scope

These specifications apply to Thermal overload relay Type TK26E

The conformable standards are

JIS C 8201-4-1 (Electromechanical contactors and motor-starters)

IEC 60947-4-1 (Electromechanical contactors and motor-starters)

GB 14048.4 (Electromechanical contactors and motor-starters)

2. Normal service conditions

The thermal overload relay shall operate normally without malfunction under the following standard conditions.

| | | |
|--|--|---|
| Ambient air temperature (near the product in use) | - 10 to +55°C | The average temperature in a day must not exceed 35°C. |
| Relative humidity | 45 to 85% | There shall be no condensation or freezing due to a sudden temperature change. |
| Altitude | 2000m or less | |
| Vibration condition | 10 to 55Hz, 15m/s ² or less | |
| Shock condition | 50 m/s ² or less | |
| Atmospheric conditions | There shall not be excessive dust, smoke, inflammable gases, vapor, oil vapor, salinity and corrosive materials in the atmosphere. | |
| Mounting | Vertical | If necessary, permissive angle is within 30 degrees in front/back or right/left directions. |
| Storage air temperature | - 40°C to +65°C | There shall be no condensation or freezing due to a sudden temperature change. |

3. Main circuit ratings

| Rated insulation voltage Ui [V] | Ampere setting range |
|------------------------------------|---|
| 690 | 0.1-0.15, 0.13-0.2, 0.18-0.27, 0.24-0.36, 0.34-0.52, 0.48-0.72 0.64-0.96, 0.8-1.2, 0.95-1.45, 1.1-1.65, 1.4-2.1, 1.7-2.6, 2.2-3.4 2.8-4.2, 4-6, 5-7.5, 6-9, 7-10.5, 9-13, 12-18, 16-22, 20-26 |

4. Auxiliary circuit ratings

| Rated insulation voltage Ui [V] | Conventional free air thermal current Ith [A] | Making and breaking current (AC) [A] | Rated operational voltage Ue [V] | Rated operational current Ie [A] | | Minimum voltage/ current |
|------------------------------------|--|---|-------------------------------------|----------------------------------|---------------------------|--------------------------|
| | | | | AC-15 (Inductive load) | DC-13 (Inductive load) | |
| 690 | 5 | 30 | 24 | 3(0.5) | 1.1(0.3) | DC5V, 3mA |
| | | 25 | 100 to 120 | 2.5(0.5) | 0.28 | |
| | | 20 | 200 to 240 | 2(0.5) | 0.14 | |
| | | 10 | 380 to 440 | 1(0.5) | — | |
| | | 6 | 500 to 600 | 0.6(0.5) | — | |

Note: () values show ratings in case of auto reset.

5. 3 poles load (Trip Class 10A)

| Current (Multiples of current setting) | Tripping time | Conditions | |
|---|---------------------------------|--------------------------|------------|
| | | Ambient temperature [°C] | Status |
| 105% | No tripping less than 2 hours | 20 | Cold start |
| 120% | Tripping less than 2 hours | 20 | Hot start |
| 150% | Tripping less than 2 minutes | 20 | Hot start |
| 720% | Tripping within 2 to 10 seconds | 20 | Cold start |

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6. 2 poles load

| Current (Multiples of current setting) | Tripping time | Conditions | |
|---|----------------------------|--------------------------|-----------|
| | | Ambient temperature [°C] | Status |
| 2poles 115% | Tripping less than 2 hours | 20 | Hot start |

7. Temperature rise

The temperature rise of the parts shall not exceed the values in the following table when applied the maximum current of the dial setting to the main circuit and the conventional free air thermal current to the auxiliary circuit respectively.

(At the ambient air temperature of 55°C)

| Measuring point | Contacts | Terminals |
|----------------------|----------|-----------|
| Temperature rise [K] | 85 | 50 |

8. Insulation resistance and withstand voltage

8-1. Insulation resistance : It measures with a 500V megger and shall exceed the values in the following table.

8-2. Withstand voltage : Withstanding the voltage of the following table at 50 and 60Hz for 60 seconds.

8-3. Rated impulse withstand voltage : Withstanding the voltage of the following table.

| Measuring position | Between main circuits and earth | Between main poles | Between auxiliary circuits | Between main poles and auxiliary circuits |
|---|---------------------------------|--------------------|----------------------------|---|
| Insulation resistance [MΩ] | 100 | 100 | 100 | 100 |
| Withstand voltage [V] | 1890 | 1890 | 1890 | 1890 |
| Rated impulse withstand voltage Uimp [kV] | 6 | 6 | 6 | 6 |

9. Resistance to vibration and shock

9-1. Resistance to vibration

(1) Endurance

There shall be no malfunction such as loosening screws, changing characteristics and mechanical damage after the endurance test.

The test conditions are 16.7Hz for the frequency, 2mm for the double amplitude and 2hr for the time in 3-axis direction.

(2) Unintended operation

There shall be no unintended opening and closing of the contact in applied 10 to 55Hz for the frequency and 15m/s² for the acceleration in 3-axis direction

9-2. Resistance to shock

(1) Endurance

There must be no malfunction such as changing characteristics and mechanical damage after applied 100m/s² for the acceleration in 3-axis direction.

(2) Unintended operation

There must be no unintended opening and closing of the contact in applied 50m/s² for the acceleration in 3-axis direction.

10. Renewal recommendation time of the product

As for the product that passed for more than 10 years after production, the renewal is recommended.

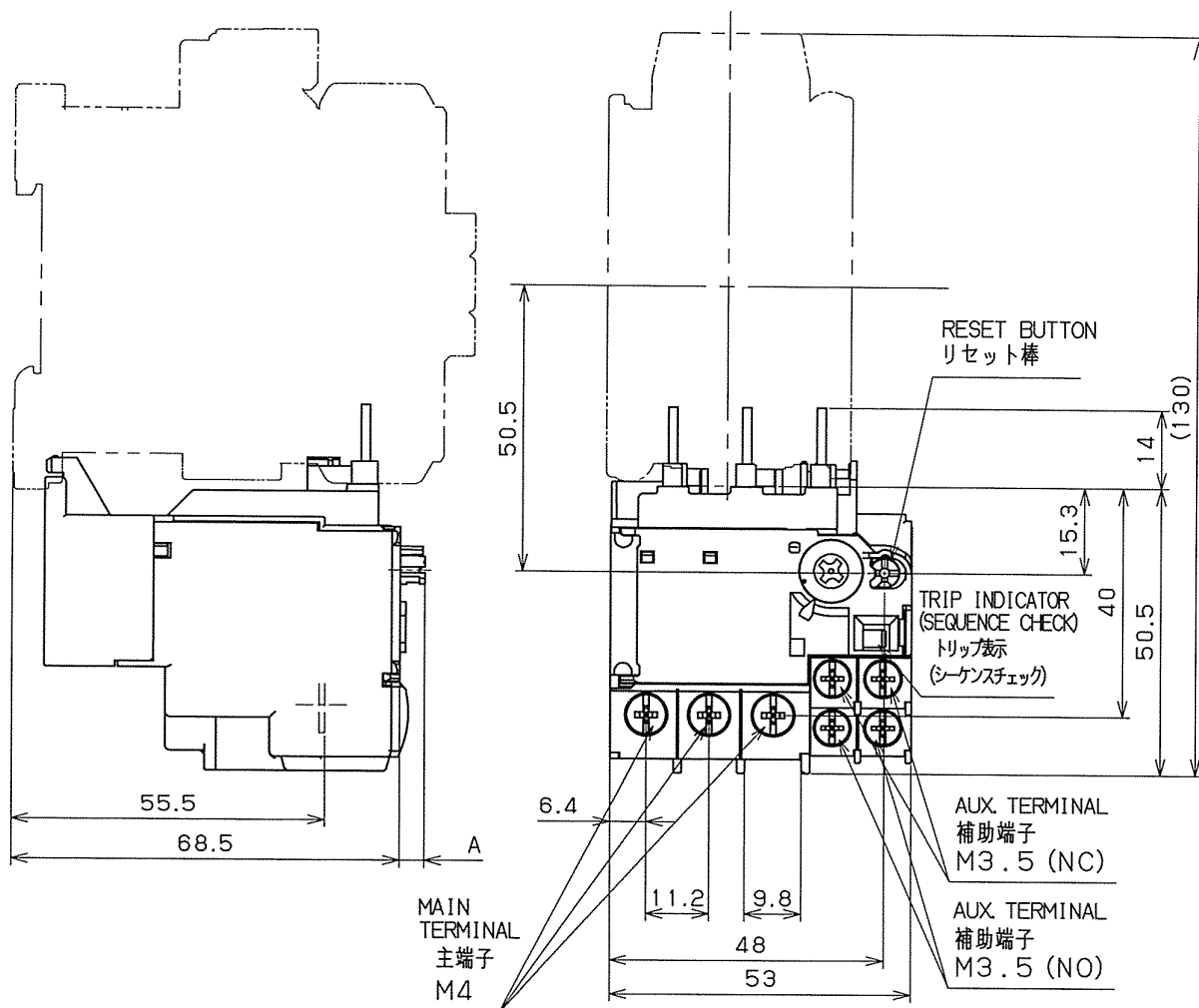
11. Attached materials

| Documents name | Documents number |
|---------------------------|------------------|
| Outline drawing | F219 03 03(5) |
| Operating characteristics | FIN2083211 |

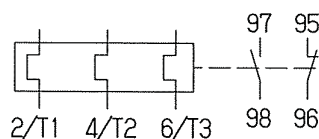
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| | DRAWN 2013-01-28 | y. Furukawa | | | |
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| | | | | DWG NO. | FIN2095372 |

DIMENSIONS IN mm
WEIGHT:0.11kg

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CONNECTION
接続図



DIMENSION A

- MANUAL RESET MODE:5mm
- AUTO RESET MODE :2mm

A寸法

- 手動リセット状態:5mm
- 自動リセット状態:2mm

| | | | | | | |
|---|--|--|--|--|---|--|
| REVISIONS | | | | | DWG CODE | |
| Ref. | | | | | TITLE | |
| DATE: 2013-03-11 NAME: K. Fujita CHECKED: 2013-03-11 Y. Furuhata APPROVED: T. Morishita SCALE: (0.8) | | | | | OUTLINE DRAWINGS FOR THERMAL OVERLOAD RELAY サーマルリレー外形図 TK26E | |
| DRAWING NO. | | | | | DRAWING NO. | |
| F219 03 03 (5) | | | | | a | |
| Fuji Electric FA Components & Systems Co., Ltd. | | | | | | |

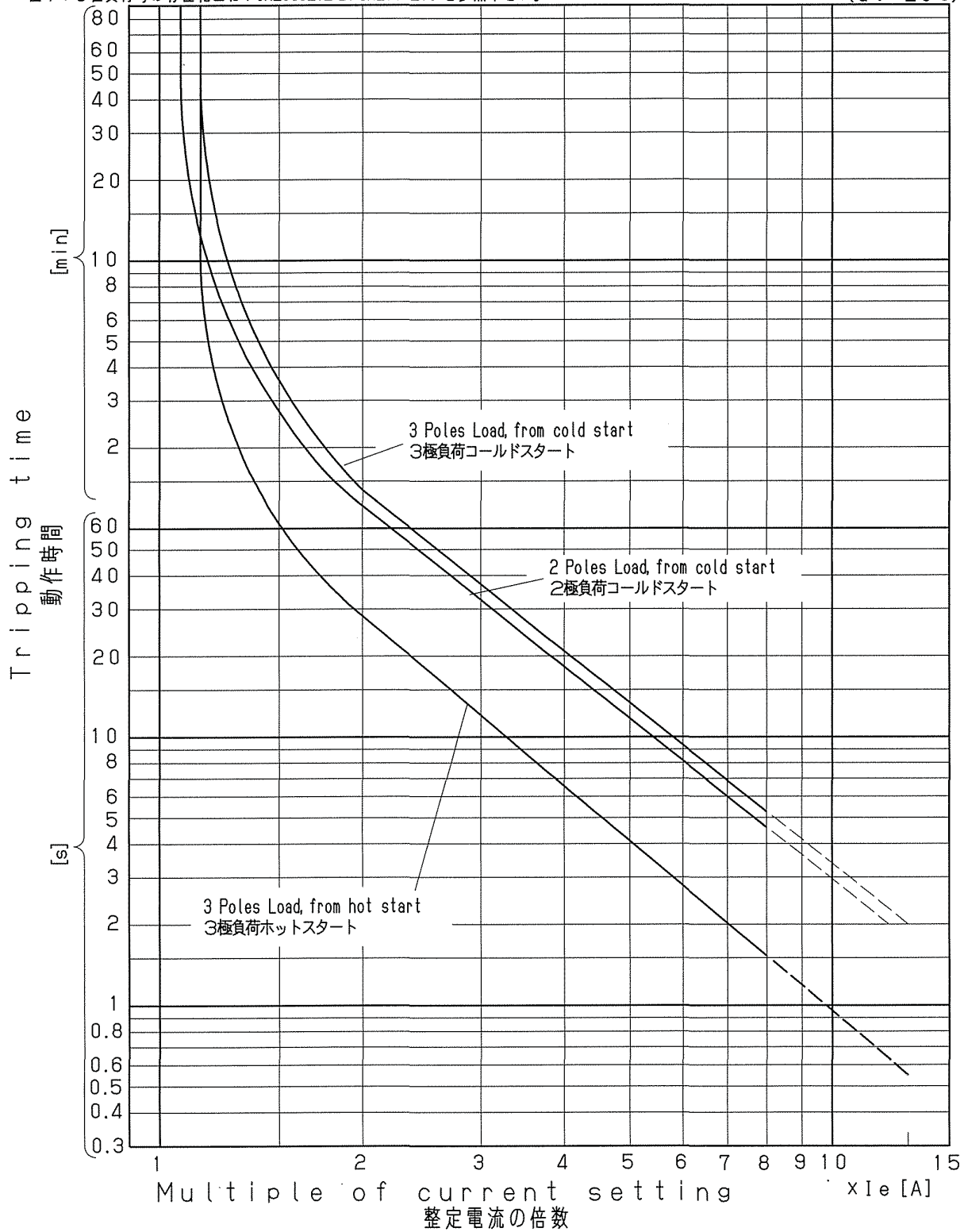
Characteristic Curve of Thermal Overload Relay サーマルリレー動作特性曲線

Type TK12 TK13
形式 : TK26 TK26E
TK25

Note1: Zone of characteristic curve at 3 poles load is shown on FIN2083212 and FIN2083213.

注1: 3極負荷時の特性範囲はFIN2083212とFIN2083213を参照下さい。

(at 20°C)



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| REVISIONS | |
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| DATE | NAME | APPROVED |
|------------|------------|------------|
| 2017-01-23 | J-Furukawa | |
| CHECKED | | J-Furukawa |

Fuji Electric FA Components & Systems Co., Ltd.

DN6. NO.

FIN2083211

d

Crosschart

| Current Product Type TK-E02 | | Replacment Type TK26E | |
|-----------------------------|------------------------------------|-----------------------|------------------------------------|
| Part Number | Ampere Range | Part Number | Ampere Range |
| TK-E02-0.1-0.15 | 0.1 - 0.15 A | TK26E-P10 | 0.1 - 0.15 A |
| TK-E02-0.13-0.2 | 0.13-0.2 A | TK26E-P13 | 0.13 - 0.2A |
| TK-E02-0.15-0.24 | 0.15 -0.24 A | TK26E-P18 | 0.18 - 0.27 A |
| TK-E02-0.2-0.3 | 0.2 - 0.3 A | - | - |
| TK-E02-0.24-0.36 | 0.24 - 0.36 A | TK26E-P24 | 0.24 - 0.36 A |
| TK-E02-0.3-0.45 | 0.3 - 0.45 A | - | - |
| TK-E02-0.36-0.54 | 0.36 - 0.54 A | TK26E-P34 | 0.34 - 0.52 A |
| TK-E02-0.48-0.72 | 0.48 - 0.72 A | TK26E-P48 | 0.48 - 0.72 A |
| TK-E02-0.64-0.96 | 0.64 - 0.96 A | TK26E-P64 | 0.64 - 0.96 A |
| TK-E02-0.8-1.2 | 0.8 - 1.2 A | TK26E-P80 | 0.8 - 1.2 A |
| TK-E02-0.95-1.45 | 0.95 - 1.45 A | TK26E-P95 | 0.95 - 1.45 A |
| - | - | TK26E-1P1 | 1.1 - 1.65 A |
| TK-E02-1.4-2.2 | 1.4 - 2.2 A | TK26E-1P4 | 1.4 - 2.1 A |
| TK-E02-1.7-2.6 | 1.7 - 2.6 A | TK26E-1P7 | 1.7 - 2.6 A |
| TK-E02-2.2-3.4 | 2.2 - 3.4 A | TK26E-2P2 | 2.2 - 3.4 A |
| TK-E02-2.8-4.2 | 2.8 - 4.2 A | TK26E-2P8 | 2.8 - 4.2 A |
| TK-E02-4-6 | 4 -6 A | TK26E-004 | 4 -6 A |
| TK-E02-5-8 | 5 - 8 A | TK26E-005 | 5 - 7.5 A |
| TK-E02-6-9 | 6 - 9 A | TK26E-006 | 6 - 9 A |
| TK-E02-7-11 | 7 - 11 A | TK26E-007 | 7 - 10.5 A |
| TK-E02-9-13 | 9 - 13 A | TK26E-009 | 9 - 13 A |
| TK-E02-12-18 | 12 -18 A | TK26E-012 | 12 -18 A |
| TK-E02-16-22 | 16 - 22 A | TK26E-016 | 16 - 22 A |
| TK-E02-20-25 | 20 - 25 A | TK26E-020 | 20 - 26 A |
| SZ-HCE | Base unit for separate mounting | TZ1H26E | Base unit for separate mounting |