

# Fuji Duo Series TK-E Overload Relays

## TK-E series thermal overload relays with open-phase protective device

### Features

- This relay protects motor windings from burning due to overloads, locked rotor current, or open-phases
- Maintenance and inspection safety has been improved by employing a finger protection mechanism to cover exposed terminals (conforms to DIN 57106, VDE 0106 Teil 100)
- Isolated NO and NC contacts can be used with different potentials
- A high-precision scale for the current adjustment dial enables easy and exact current setting
- The operating status can be visually checked with ease
- The relays can be manually tripped. A trip-free mechanism is also provided
- Base unit can be added to enable separate mounting of the TK26E, E2, and E3-xxx models



TK26E-P10



TK-E2-800



TK-E3-5000



TK-E5-4000



### Standards

- UL listed, file E44592, Standard UL 508
- cUL listed, file E44592, CSA C22.2 No. 14
- IEC 60947-4-1, EN60947-4-1
- VDE 0660, JIS C 8201-4-1
- CE Compliant



| TK26E Series Overloads    |         |                               |                                                                                               |
|---------------------------|---------|-------------------------------|-----------------------------------------------------------------------------------------------|
| Part Number               | Price   | Amperage Adjustment Range (A) | Frame Width / Contactor                                                                       |
| <a href="#">TK26E-P10</a> | \$44.00 | 0.1 - 0.15                    | 43mm                                                                                          |
| <a href="#">TK26E-P13</a> | \$44.00 | 0.13 - 0.2                    |                                                                                               |
| <a href="#">TK26E-P18</a> | \$44.00 | 0.18 - 0.27                   |                                                                                               |
| <a href="#">TK26E-P24</a> | \$44.00 | 0.24 - 0.36                   |                                                                                               |
| <a href="#">TK26E-P34</a> | \$44.00 | 0.34 - 0.52                   |                                                                                               |
| <a href="#">TK26E-P48</a> | \$44.00 | 0.48 - 0.72                   |                                                                                               |
| <a href="#">TK26E-P64</a> | \$44.00 | 0.64 - 0.96                   |                                                                                               |
| <a href="#">TK26E-P80</a> | \$44.00 | 0.8 - 1.2                     |                                                                                               |
| <a href="#">TK26E-P95</a> | \$44.00 | 0.95 - 1.45                   |                                                                                               |
| <a href="#">TK26E-1P1</a> | \$44.00 | 1.1-1.65                      |                                                                                               |
| <a href="#">TK26E-1P4</a> | \$44.00 | 1.4 - 2.1                     | SC-E02(G) through SC-E05(G)<br><br>For separate mounting, use with optional base unit TZ1H26E |
| <a href="#">TK26E-1P7</a> | \$44.00 | 1.7 - 2.6                     |                                                                                               |
| <a href="#">TK26E-2P2</a> | \$44.00 | 2.2 - 3.4                     |                                                                                               |
| <a href="#">TK26E-2P8</a> | \$44.00 | 2.8 - 4.2                     |                                                                                               |
| <a href="#">TK26E-004</a> | \$44.00 | 4.0 - 6.0                     |                                                                                               |
| <a href="#">TK26E-005</a> | \$44.00 | 5.0 - 7.5                     |                                                                                               |
| <a href="#">TK26E-006</a> | \$44.00 | 6.0 - 9.0                     |                                                                                               |
| <a href="#">TK26E-007</a> | \$44.00 | 7.0 - 10.5                    |                                                                                               |
| <a href="#">TK26E-009</a> | \$44.00 | 9.0 - 13.0                    |                                                                                               |
| <a href="#">TK26E-012</a> | \$44.00 | 12 - 18                       |                                                                                               |
| <a href="#">TK26E-016</a> | \$44.00 | 16 - 22                       |                                                                                               |
| <a href="#">TK26E-020</a> | \$44.00 | 20 - 26                       |                                                                                               |

| TK-E Series Overloads       |          |                               |                                                                                                         |
|-----------------------------|----------|-------------------------------|---------------------------------------------------------------------------------------------------------|
| Part Number                 | Price    | Amperage Adjustment Range (A) | Frame Width / Contactor                                                                                 |
| <a href="#">TK-E2-600</a>   | \$72.00  | 4 - 6                         | 54mm<br><br>SC-E1(G) through SC-E2S(G)<br><br>For separate mounting, use with optional base unit SZ-HDE |
| <a href="#">TK-E2-800</a>   | \$72.00  | 5 - 8                         |                                                                                                         |
| <a href="#">TK-E2-900</a>   | \$72.00  | 6 - 9                         |                                                                                                         |
| <a href="#">TK-E2-1100</a>  | \$72.00  | 7 - 11                        |                                                                                                         |
| <a href="#">TK-E2-1300</a>  | \$72.00  | 9 - 13                        |                                                                                                         |
| <a href="#">TK-E2-1800</a>  | \$72.00  | 12 - 18                       |                                                                                                         |
| <a href="#">TK-E2-2600</a>  | \$72.00  | 18 - 26                       |                                                                                                         |
| <a href="#">TK-E2-3600</a>  | \$72.00  | 24 - 36                       |                                                                                                         |
| <a href="#">TK-E2-4200</a>  | \$72.00  | 32 - 42                       |                                                                                                         |
| <a href="#">TK-E2-5000</a>  | \$72.00  | 40 - 50                       |                                                                                                         |
| <a href="#">TK-E2-5400</a>  | \$72.00  | 44 - 54                       | 67mm<br><br>SC-E3(G) through SC-E4(G)<br><br>For separate mounting, use with optional base unit SZ-HEE  |
| <a href="#">TK-E3-1800</a>  | \$89.00  | 12 - 18                       |                                                                                                         |
| <a href="#">TK-E3-2600</a>  | \$89.00  | 18 - 26                       |                                                                                                         |
| <a href="#">TK-E3-3600</a>  | \$89.00  | 24 - 36                       |                                                                                                         |
| <a href="#">TK-E3-4000</a>  | \$89.00  | 28 - 40                       |                                                                                                         |
| <a href="#">TK-E3-5000</a>  | \$89.00  | 34 - 50                       |                                                                                                         |
| <a href="#">TK-E3-6500</a>  | \$89.00  | 45 - 65                       |                                                                                                         |
| <a href="#">TK-E3-6800</a>  | \$89.00  | 48 - 68                       |                                                                                                         |
| <a href="#">TK-E3-8000</a>  | \$89.00  | 64 - 80                       |                                                                                                         |
| <a href="#">TK-E5-5000</a>  | \$98.00  | 34 - 50                       |                                                                                                         |
| <a href="#">TK-E5-6500</a>  | \$98.00  | 45 - 65                       | 88mm<br><br>SC-E5                                                                                       |
| <a href="#">TK-E5-9500</a>  | \$98.00  | 65 - 95                       |                                                                                                         |
| <a href="#">TK-E5-10500</a> | \$98.00  | 85 - 105                      |                                                                                                         |
| <a href="#">TK-E6-8000</a>  | \$169.00 | 53 - 80                       | 100mm/115mm<br><br>SC-E6<br>SC-E7                                                                       |
| <a href="#">TK-E6-9500</a>  | \$169.00 | 65 - 95                       |                                                                                                         |
| <a href="#">TK-E6-12500</a> | \$169.00 | 85 - 125                      |                                                                                                         |
| <a href="#">TK-E6-16000</a> | \$169.00 | 110 - 160                     |                                                                                                         |

# Fuji Duo Series Contactor and Overload Relay Selection Tables

**A****SC-E Contactor**

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**B****TK-E Overload Relay**

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## 100-240V Single Phase Motor (1/3 to 25 hp)

Step 1. Using the "SC-E Series Contactors" table, select a contactor based on motor voltage and horsepower.

Step 2. Using the "TK26E Series Overloads" or "TK-E Series Overloads" table, select an overload relay based on motor full load current.

Check the data plate on the motor for the hp, volts and full-rated amps.



| Motor  |      |       |      |             |    |      |      |
|--------|------|-------|------|-------------|----|------|------|
| HP     | 5    | Volts | 460  | Phase       | 3  | Type | P    |
| RPM    | 1725 | Amps  | 7.6  | Hz          | 60 | SF   | 1.15 |
| Design | B    | AMB   | 40°C | Insul Class | F  |      |      |
| Duty   | Cont | Encl  | TEFC | Code        | K  |      |      |

Motor horsepower → (points to HP 5)

Motor voltage → (points to Volts 460)

Motor full-load rated amperage (FLA) → (points to Amps 7.6)

## Three Phase Motors - Refer to tables on following page

Step 1. Select a SC-E contactor from Column A based on motor voltage and horsepower.

Step 2. Select a TK-E overload relay from Column B to work with the SC-E contactor selected in Step 1. The motor full load current (FLA) should be within the adjustable current range of the overload relay.

# Fuji Duo Series Overload Relay Selection Tables

## 220-240V 3-Phase Motor (0.5 to 50hp)<sup>1</sup>

| Overload Relay Selection for 220–240V 3-phase motors |                                             |             |                             |                          |
|------------------------------------------------------|---------------------------------------------|-------------|-----------------------------|--------------------------|
| Motor Rating                                         |                                             | A           | B                           |                          |
| Motor HP                                             | Motor Full Load Amperage (FLA) <sup>2</sup> | Contactor   | Overload Relay              |                          |
|                                                      |                                             |             | Part Number                 | Adjustable Current Range |
| 1/2                                                  | 2.2                                         | SC-E02-xxxx | <a href="#">TK26E-1P7</a>   | 1.7 to 2.6A              |
| 3/4                                                  | 3.2                                         |             | <a href="#">TK26E-2P8</a>   | 2.8 to 4.2A              |
| 1                                                    | 4.2                                         |             | <a href="#">TK26E-004</a>   | 4 to 6A                  |
| 1-1/2                                                | 6                                           |             | <a href="#">TK26E-005</a>   | 5 to 7.5A                |
| 2                                                    | 6.8                                         |             | <a href="#">TK26E-006</a>   | 6 to 9A                  |
| 3                                                    | 9.6                                         | SC-E03-xxxx | <a href="#">TK26E-009</a>   | 9 to 13A                 |
| 5                                                    | 15.2                                        | SC-E04-xxxx | <a href="#">TK26E-012</a>   | 12 to 18A                |
| 7-1/2                                                | 22                                          | SC-E05-xxxx | <a href="#">TK26E-020</a>   | 20 to 26A                |
| 10                                                   | 28                                          | SC-E1-xxxx  | <a href="#">TK-E2-3600</a>  | 24 to 36A                |
| 15                                                   | 42                                          | SC-E2-xxxx  | <a href="#">TK-E2-4200</a>  | 32 to 42A                |
| 20                                                   | 54                                          | SC-E3-xxxx  | <a href="#">TK-E3-6500</a>  | 45 to 65A                |
| 25                                                   | 68                                          | SC-E4-xxxx  | <a href="#">TK-E3-6800</a>  | 48 to 68A                |
| 30                                                   | 80                                          | SC-E5-xxxx  | <a href="#">TK-E5-9500</a>  | 65 to 95A                |
| 40                                                   | 104                                         | SC-E6-xxxx  | <a href="#">TK-E6-12500</a> | 85 to 125A               |
| 50                                                   | 130                                         | SC-E7-xxxx  | <a href="#">TK-E6-16000</a> | 110 to 160A              |

Note 1: For 220-240 V three-phase motors up to 150 hp refer to the Fuji Odyssey series.

Note 2: Per NEC 2017 table 430.250 column for 230VAC

## 440-480V 3-Phase Motor (0.5 to 100hp)<sup>1</sup>

| Overload Relay Selection for 440–480V 3-phase motors |                                             |             |                             |                          |
|------------------------------------------------------|---------------------------------------------|-------------|-----------------------------|--------------------------|
| Motor Rating                                         |                                             | A           | B                           |                          |
| Motor HP                                             | Motor Full Load Amperage (FLA) <sup>2</sup> | Contactor   | Overload Relay              |                          |
|                                                      |                                             |             | Part Number                 | Adjustable Current Range |
| 1/2                                                  | 1.1                                         | SC-E02-xxxx | <a href="#">TK26E-P95</a>   | 0.95 to 1.45A            |
| 3/4                                                  | 1.6                                         | SC-E02-xxxx | <a href="#">TK26E-1P1</a>   | 1.1 to 1.65A             |
| 3/4                                                  | 1.6                                         | SC-E02-xxxx | <a href="#">TK26E-1P4</a>   | 1.4 to 2.1A              |
| 1                                                    | 2.1                                         | SC-E02-xxxx | <a href="#">TK26E-1P7</a>   | 1.7 to 2.6A              |
| 1-1/2                                                | 3.0                                         | SC-E02-xxxx | <a href="#">TK26E-2P8</a>   | 2.8 to 4.2A              |
| 2                                                    | 3.4                                         | SC-E02-xxxx | <a href="#">TK26E-2P8</a>   | 2.8 to 4.2A              |
| 3                                                    | 4.8                                         | SC-E02-xxxx | <a href="#">TK26E-004</a>   | 4 to 6A                  |
| 5                                                    | 7.6                                         | SC-E02-xxxx | <a href="#">TK26E-006</a>   | 6 to 9A                  |
| 7 1/2                                                | 11                                          | SC-E03-xxxx | <a href="#">TK26E-009</a>   | 9 to 13A                 |
| 10                                                   | 14                                          | SC-E04-xxxx | <a href="#">TK26E-012</a>   | 12 to 18A                |
| 15                                                   | 21                                          | SC-E05-xxxx | <a href="#">TK26E-020</a>   | 20 to 26A                |
| 20                                                   | 27                                          | SC-E1-xxxx  | <a href="#">TK-E2-3600</a>  | 24 to 36A                |
| 25                                                   | 34                                          | SC-E1-xxxx  | <a href="#">TK-E2-4200</a>  | 32 to 42A                |
| 30                                                   | 40                                          | SC-E2-xxxx  | <a href="#">TK-E2-4200</a>  | 32 to 42A                |
| 40                                                   | 52                                          | SC-E3-xxxx  | <a href="#">TK-E3-6500</a>  | 45 to 65A                |
| 50                                                   | 65                                          | SC-E4-xxxx  | <a href="#">TK-E3-6800</a>  | 48 to 68A                |
| 60                                                   | 77                                          | SC-E5-xxxx  | <a href="#">TK-E5-9500</a>  | 65 to 95A                |
| 75                                                   | 96                                          | SC-E6-xxxx  | <a href="#">TK-E6-12500</a> | 85 to 125A               |
| 100                                                  | 124                                         | SC-E7-xxxx  | <a href="#">TK-E6-16000</a> | 110 to 160A              |

Note 1: For 440-480V three-phase motors up to 300 hp refer to the Fuji Odyssey series.

Note 2: Per NEC 2017 table 430.250 column for 460VAC

# Fuji Duo Series TK-E Overload Relays

**TK26E-P10**

## Standard Operating Conditions

|                            |                                                                                                                                                                                                           |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Ambient Temperature</b> | <b>Operating: -10 to +55°C</b><br>No sudden temperature changes resulting in condensation or icing<br>(The average temperature over a 24-hour period must not exceed 35°C)<br><b>Storage: -40 to 65°C</b> |
| <b>Humidity</b>            | 45 to 85% RH                                                                                                                                                                                              |
| <b>Atmosphere</b>          | No excessive dust, smoke, corrosive gases, flammable gases, steam, or salt                                                                                                                                |
| <b>Vibration</b>           | 10 to 55Hz, 15m/s <sup>2</sup>                                                                                                                                                                            |
| <b>Shock</b>               | 50m/s <sup>2</sup>                                                                                                                                                                                        |
| <b>Mounting</b>            | Vertical, permissive angle 30 degrees                                                                                                                                                                     |

## Specifications

| Model            | Applicable Contactor Non-reversing    | Auxiliary Contact | Trip Class IEC 60947-4-1 | Number of Heater Elements | Power Consumption per Pole (VA) | SCCR (kA) | Features                                                                                                                                       |
|------------------|---------------------------------------|-------------------|--------------------------|---------------------------|---------------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>TK26E-xxx</b> | SC-E02(G), E03(G), E04(G), E05(G)-xxx | 1NO+1NC           | 10A                      | 3                         | 1.7                             | 5         | Overload, open-phase protection<br>Ambient temperature compensation<br>Manual/auto reset selectable<br>Manual trip mechanism<br>Trip indicator |
| <b>TK-E2-xxx</b> | SC-E1(G), E2(G), E2S(G)-xxx           |                   |                          |                           | 3.8                             | 5         |                                                                                                                                                |
| <b>TK-E3-xxx</b> | SC-E3(G), E4(G)-xxx                   |                   |                          |                           | 6.6                             | 5         |                                                                                                                                                |
| <b>TK-E5-xxx</b> | SC-E5-xxx                             |                   |                          |                           | 6.6                             | 10        |                                                                                                                                                |
| <b>TK-E6-xxx</b> | SC-E6, E7-xxx                         |                   |                          |                           | 8.0                             | 10        |                                                                                                                                                |

## Auxiliary Contact Ratings - UL and CSA

| Model                         | Rated Insulation Voltage (V) | NEMA ICS 5-2000 Ratings ( note 1 ) |           |             |                  |                    |
|-------------------------------|------------------------------|------------------------------------|-----------|-------------|------------------|--------------------|
|                               |                              | AC Ratings (Max)                   |           |             | DC Ratings (Max) |                    |
|                               |                              | Designation                        | Making VA | Breaking VA | Designation      | Making/Breaking VA |
| <b>TK26E-xxx to TK-E6-xxx</b> | 600                          | B600                               | 3600      | 360         | R300             | 28                 |

Notes:

1. NEMA ICS 5-2000. For more information, refer to Control Circuit Contact Electrical Ratings, page MRC-111.

## Auxiliary contact ratings - JIS and IEC

| Model     | Rated Insulation Voltage (A) | Rated Thermal Current (A) | Rated Operational Current (A) |                  |                |                  | Minimum Voltage and Current |  |  |
|-----------|------------------------------|---------------------------|-------------------------------|------------------|----------------|------------------|-----------------------------|--|--|
|           |                              |                           | AC Voltage (V)                | AC15 (Ind. load) | DC Voltage (V) | DC13 (Ind. load) |                             |  |  |
| TK26E-xxx | 690                          | 5                         | 24                            | 3 (0.5) *        | 24             | 1.1 (0.3)        | 5VDC, 3mA                   |  |  |
|           |                              |                           | 100-120                       | 2.5 (0.5) *      | 100-120        | 0.28             |                             |  |  |
|           |                              |                           | 200-240                       | 2 (0.5) *        | 200-240        | 0.14             |                             |  |  |
|           |                              |                           | 380-440                       | 1 (0.5) *        |                |                  |                             |  |  |
|           |                              |                           | 500-600                       | 0.6 (0.5) *      |                |                  |                             |  |  |
| TK-E2-xxx | 690                          | 5                         | 24                            | 3 (0.5) *        | 24             | 1.1 (0.3)        | 3VDC, 5mA                   |  |  |
| TK-E3-xxx |                              |                           | 100-120                       | 2.5 (0.5) *      | 100-120        | 0.28             |                             |  |  |
| TK-E5-xxx |                              |                           | 200-240                       | 2 (0.5) *        | 200-240        | 0.14             |                             |  |  |
| TK-E6-xxx |                              |                           | 380-440                       | 1 (0.5) *        |                |                  |                             |  |  |
|           |                              |                           | 500-600                       | 0.6 (0.5) *      |                |                  |                             |  |  |

Note: \* In case of auto-reset type NO contact.

# Fuji Duo Series TK-E Overload Relays

## Wiring

Be sure to wire the relays correctly using the wiring diagrams on the supplied installation sheets. Main terminals for models TK26E-xxx to TK-E6-xxx are wired using solid wires or stranded wires. Stranded wires or flexible stranded wires can be connected by twisting them together and crimping a sleeve (ferrule) onto them before connecting.

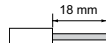
## Tightening torque

If wires are not tightened sufficiently, they may become hot or loosen and result in a fire, short-circuit, electric shock, or some other potentially dangerous situation. Be sure to tighten the wires to the torques specified in these tables.

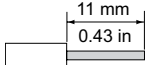
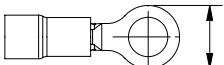


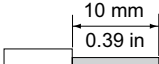
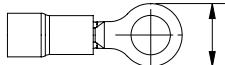
TK26E-P10



| Wire Sizes, Tightening Torques - Main Circuit            |                                                                                        |                                                                                     |                                                                                     |           |
|----------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------|
| Thermal Overload Relay Model                             | TK-E2-xxx                                                                              | TK-E3-xxx                                                                           | TK-E5-xxx                                                                           | TK-E6-xxx |
| Single Stranded Wire (mm <sup>2</sup> )                  | 0.75 to 16                                                                             | 1.5 to 35                                                                           |                                                                                     | 16 to 70  |
| Flexible Stranded Wire with Sleeve (mm <sup>2</sup> )    | 0.75 to 16                                                                             | 1.5 to 35                                                                           |                                                                                     | 16 to 70  |
| Flexible Stranded Wire without Sleeve (mm <sup>2</sup> ) | 0.75 to 16                                                                             | 1.5 to 35                                                                           |                                                                                     | 16 to 70  |
| AWG 75°C Cu only                                         | 6 max.                                                                                 | 2 max.                                                                              |                                                                                     | 00 max.   |
| Insulation Stripping Length                              |       |  |  |           |
| Tool                                                     | Phillips screwdriver, H-type, No. 2 (ISO 8764);<br>ADC part number TW-SD-VPH-2         | Hex. wrench 4 (ISO 2936)                                                            |                                                                                     |           |
|                                                          | Flat-blade screwdriver, 1 x 5.5 x L-type, B (ISO 2830);<br>ADC part number TW-SD-VSL-4 |                                                                                     |                                                                                     |           |
| Tightening Torque (N·m)                                  | 2.5                                                                                    | 6                                                                                   |                                                                                     | 10        |

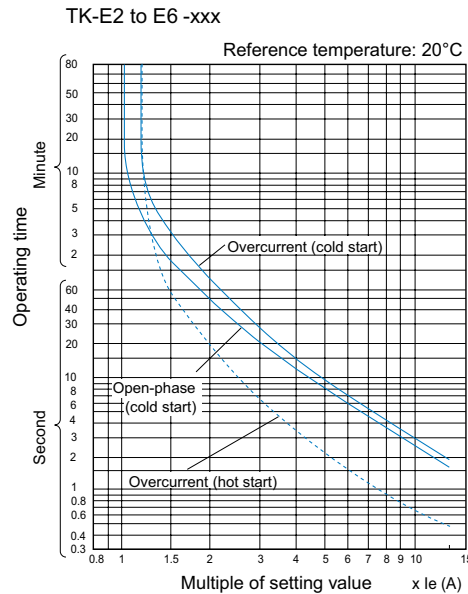
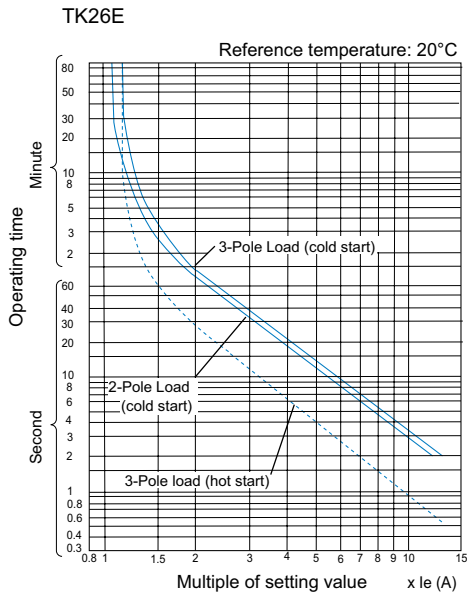
Note: Stranded wire (0 to 25mm<sup>2</sup>) consists of 7 wires or less. Stranded wire (35 to 120mm<sup>2</sup>) consists of 19 wires or less. Flexible stranded wire consists of more wires than the above.

| Wire Sizes, Tightening Torques - Main Circuit |                                                                                     |           |
|-----------------------------------------------|-------------------------------------------------------------------------------------|-----------|
| Thermal Overload Relay Type                   | TK26E-xxx                                                                           |           |
| Solid Wire (mm <sup>2</sup> )                 | One                                                                                 | 0.75 to 4 |
|                                               | Two                                                                                 | 1 to 4    |
| Stranded Wire (mm <sup>2</sup> )              | One                                                                                 | 0.75 to 4 |
|                                               | Two                                                                                 | 1 to 4    |
| AWG 75°C Cu only                              | One                                                                                 | 18 to 12  |
|                                               | Two                                                                                 | 18 to 12  |
| Insulation Stripping Length (mm)              |  |           |
| Maximum Crimp Terminal Width                  |  |           |
| Terminal Screw Size                           | M4                                                                                  |           |
| Tool                                          | Phillips screwdriver, H-type, No. 2 (ISO 8764); ADC part number TW-SD-VPH-2         |           |
|                                               | Flat-blade screwdriver, 1 x 5.5 x L-type, B (ISO 2830); ADC part number TW-SD-VSL-4 |           |
| Tightening Torque [N·m (lb·in)]               | 1.2 to 1.5 (11 to 13)                                                               |           |

| Wire Sizes, Tightening Torques - Control Circuit |                                                                                       |                            |
|--------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------|
| Single Stranded Wire (mm <sup>2</sup> )          | One                                                                                   | 0.75 to 2.5 (ø 1 to ø 1.6) |
|                                                  | Two                                                                                   | 0.75 to 2.5                |
| AWG 75°C Cu only                                 | One                                                                                   | 18 to 14                   |
|                                                  | Two                                                                                   | 18 to 14                   |
| Insulation Stripping Length (mm)                 |  |                            |
| Maximum Crimp Terminal Width                     |  |                            |
| Terminal Screw Size                              | M3.5                                                                                  |                            |
| Tool                                             | Phillips screwdriver, H-type, No. 2 (ISO 8764); ADC part number TW-SD-VPH-2           |                            |
|                                                  | Flat-blade screwdriver, 1 x 5.5 x L-type, B (ISO 2830); ADC part number TW-SD-VSL-4   |                            |
| Tightening Torque [N·m (lb·in)]                  | 0.8 to 1 (7 to 9)                                                                     |                            |

# Fuji Duo Series TK-E Overload Relays

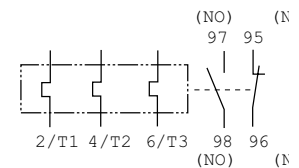
## Operating characteristics



**Fuji Electric**

## Wiring diagram

3-heater element

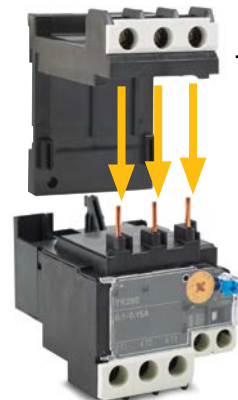


## Optional accessories

### Base units for separate mounting

Allows TK26E, E2, and E3 series thermal overload relays to be separately mounted to 35mm wide DIN rail, or screw mounted to panel.

| Mounting Base Unit |                            |         |
|--------------------|----------------------------|---------|
| Part Number        | Applicable Overload Relays | Price   |
| <b>TZ1H26E</b>     | TK26E-xxx                  | \$11.50 |
| <b>SZ-HDE</b>      | TK-E2-xxx                  | \$18.50 |
| <b>SZ-HEE</b>      | TK-E3-xxx                  | \$21.50 |



**TZ1H26E Base Unit**

Install thermal overload relay onto base unit as shown. Relay can now be installed onto DIN rail or panel.



**TK26E-P10 Thermal Overload Relay**

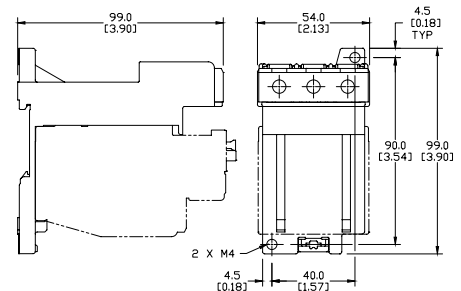
## Dimensions mm [inches]



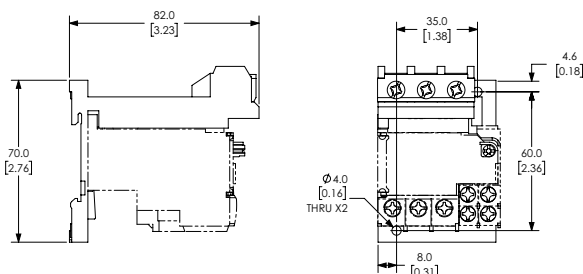
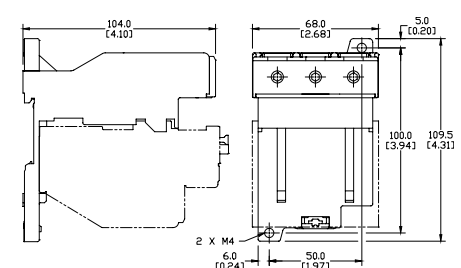
**TZ1H26E**



**SZ-HDE**



**SZ-HEE**



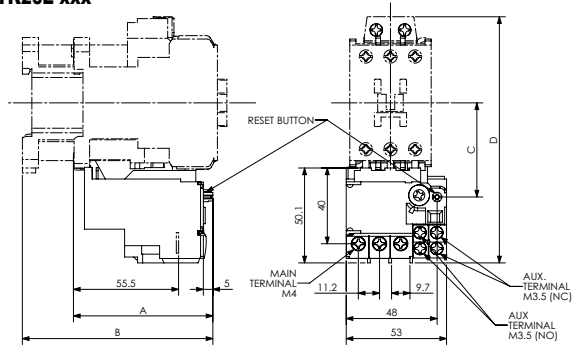
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# Fuji Duo Series TK-E Overload Relays

## Dimensions [inches (mm)]

### Overload relays

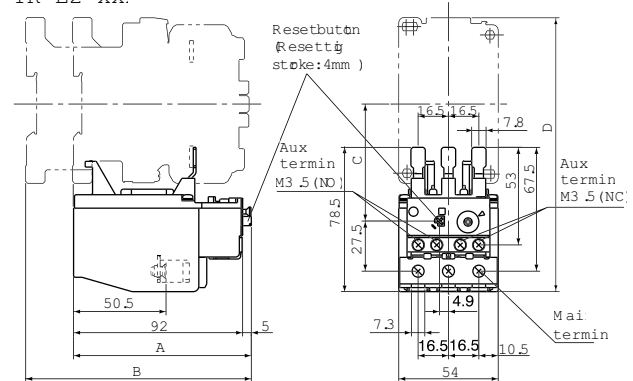
#### TK26E-xxx



| CONTACTOR      | A           | B            | C           | D          |
|----------------|-------------|--------------|-------------|------------|
| SC-E02 TO 05   | 2.89 (73.5) | —            | 1.99 (50.5) | 5.12 (130) |
| SC-E02G TO 05G | —           | 3.96 (100.5) | 1.99 (50.5) | 5.12 (130) |

**Weight: 0.24 lb (0.11 kg)**

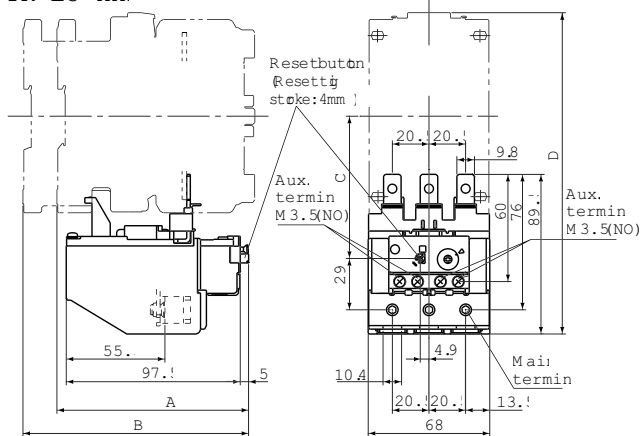
#### TK-E2-xx:



| CONTACTOR      | A         | B          | C          | D          |
|----------------|-----------|------------|------------|------------|
| SC-E1 to E2S   | 3.82 (97) | —          | 2.5 (63.5) | 5.87 (149) |
| SC-E1G to E2SG | —         | 4.82 (123) | 2.5 (63.5) | 5.87 (149) |

**Weight: 0.55 lb (0.25 kg)**

#### TK-E3-xx:

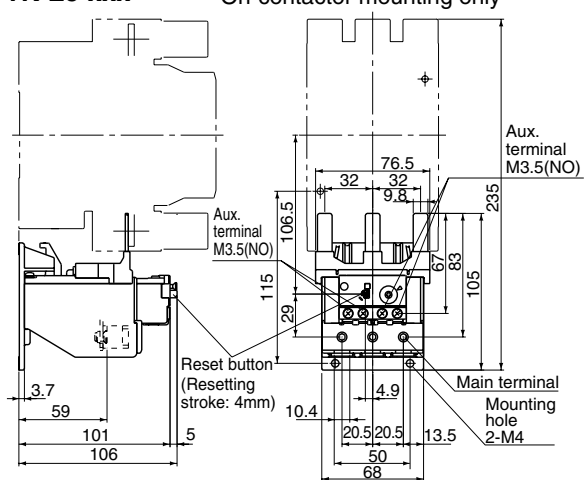


| CONTACTOR  | A            | B            | C           | D          |
|------------|--------------|--------------|-------------|------------|
| SC-E3, E4  | 4.23 (107.5) | —            | 3.13 (79.5) | 7.09 (180) |
| SC-E3, E4G | —            | 4.98 (126.5) | 3.13 (79.5) | 7.09 (180) |

**Weight: 0.75 lb (0.34 kg)**

#### TK-E5-xxx

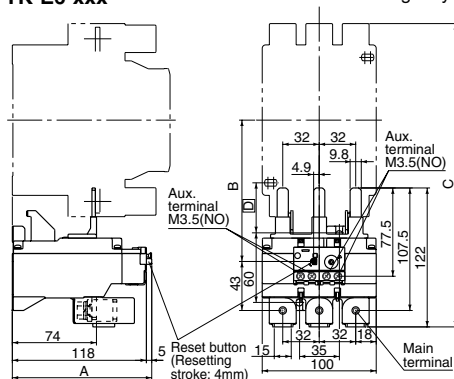
#### On-contactor mounting only



**Weight: 0.82 lb (0.37 kg)**

#### TK-E6-xxx

#### On-contactor mounting only



| CONTACTOR | A          | B          | C             | D         |
|-----------|------------|------------|---------------|-----------|
| SC-E6     | 4.84 (123) | 4.88 (124) | 10.49 (266.5) | 1.77 (45) |
| SC-E7     | 4.84 (123) | 5.07 (129) | 10.79 (274)   | 1.97 (50) |

**Weight: 1.57 lb (0.71kg)**

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