

# Fuji Duo Series SC-E Contactors

## Features

- 5 to 100 hp at 480VAC
- cULus and CSA approval, CE mark, meets JIS and IEC standards.
- Models SC-E02-xxx to SC-E4-xxx have 3-pole main circuits and come in three sizes with widths of 43mm, 54mm, and 67mm.
- Models SC-E1-xxx to SC-E7-xxx employ a box terminal structure; allowing wires to be connected directly to the main circuit.
- Has a finger-protection terminal structure that prevents the exposure of live parts.
- Models SC-E5-xxx to SC-E7-xxx use a SUPERMAGNETTM (AC-input/DC-output operation) for high operating reliability and requires no surge suppressor.

## Small Size

- SC-E02-xxx to E05-xxx: 43mm wide
- SC-E1-xxx to E2S-xxx: 54mm wide
- SC-E3-xxx, E4-xxx: 67mm wide
- SC-E5-xxx: 88mm wide



SC-E2S



SC-E7

## Safety

- Terminals with finger-touch protection (DIN 57106/VDE 0106 Teil100)

## Utility

- Box lug terminal construction
- Long electrical life
- Easy to wire

## Environmental

- Low power consumption
- Recycled thermoplastic resin used for plastic parts.
- The names of materials are indicated on all major parts to facilitate recycling

## Standards & Approvals

- UL listed, file E42419, Standard UL 508
- cUL listed, file E42419, Standard CSA C 22.2 No.14
- VDE 0660
- JIS C 8201-4-1
- IEC 60947-4-1 / EN 60947-4-1
- CE compliant

## Optional accessories

- Auxiliary contact blocks
- Coil surge suppression units

## SC-E Series Contactors Specifications - UL and CSA

| Part Number                    | Price   | Nominal<br>Coil<br>Voltage | Rated Capacity (HP) |                |                |                |                |                | Rated AC-3 Current<br>(A) [note 1] | Rated AC-1 Thermal<br>Current (A) [note 2] | SCCR Ratings<br>(KA) | Rated Insulation<br>Voltage (V) | Frame<br>Width<br>(mm) |
|--------------------------------|---------|----------------------------|---------------------|----------------|----------------|----------------|----------------|----------------|------------------------------------|--------------------------------------------|----------------------|---------------------------------|------------------------|
|                                |         |                            | 3-Phase Motor       |                |                |                | 1-Phase Motor  |                |                                    |                                            |                      |                                 |                        |
|                                |         |                            | 200V                | 220 to<br>240V | 440 to<br>480V | 550 to<br>600V | 100 to<br>120V | 220 to<br>240V |                                    |                                            |                      |                                 |                        |
| <a href="#">SC-E02P-24VAC</a>  | \$20.50 | 24VAC                      | 2                   | 2              | 5              | 5              | 1/3            | 1              | 9                                  | 20                                         | 5                    | 690                             | 43                     |
| <a href="#">SC-E02P-110VAC</a> | \$20.50 | 110VAC                     |                     |                |                |                |                |                |                                    |                                            |                      |                                 |                        |
| <a href="#">SC-E02P-220VAC</a> | \$20.50 | 220VAC                     |                     |                |                |                |                |                |                                    |                                            |                      |                                 |                        |
| <a href="#">SC-E02P-440VAC</a> | \$20.50 | 440-480VAC                 |                     |                |                |                |                |                |                                    |                                            |                      |                                 |                        |
| <a href="#">SC-E02P-500VAC</a> | \$20.50 | 500-550VAC                 |                     |                |                |                |                |                |                                    |                                            |                      |                                 |                        |
| <a href="#">SC-E02PG-24VDC</a> | \$23.50 | 24VDC                      | 3                   | 3              | 7.5            | 7.5            | 1/2            | 2              | 12                                 | 20                                         |                      |                                 |                        |
| <a href="#">SC-E03P-24VAC</a>  | \$26.00 | 24VAC                      |                     |                |                |                |                |                |                                    |                                            |                      |                                 |                        |
| <a href="#">SC-E03P-110VAC</a> | \$26.00 | 110VAC                     |                     |                |                |                |                |                |                                    |                                            |                      |                                 |                        |
| <a href="#">SC-E03P-220VAC</a> | \$26.00 | 220VAC                     |                     |                |                |                |                |                |                                    |                                            |                      |                                 |                        |
| <a href="#">SC-E03P-440VAC</a> | \$26.00 | 440-480VAC                 |                     |                |                |                |                |                |                                    |                                            |                      |                                 |                        |
| <a href="#">SC-E03PG-24VDC</a> | \$37.50 | 24VDC                      | 5                   | 5              | 10             | 10             | 1              | 3              | 18                                 | 25                                         |                      |                                 |                        |
| <a href="#">SC-E04P-24VAC</a>  | \$32.50 | 24VAC                      |                     |                |                |                |                |                |                                    |                                            |                      |                                 |                        |
| <a href="#">SC-E04P-110VAC</a> | \$32.50 | 110VAC                     |                     |                |                |                |                |                |                                    |                                            |                      |                                 |                        |
| <a href="#">SC-E04P-220VAC</a> | \$32.50 | 220VAC                     |                     |                |                |                |                |                |                                    |                                            |                      |                                 |                        |
| <a href="#">SC-E04P-440VAC</a> | \$32.50 | 440-480VAC                 |                     |                |                |                |                |                |                                    |                                            |                      |                                 |                        |
| <a href="#">SC-E04P-500VAC</a> | \$32.50 | 500-550VAC                 | 5                   | 7.5            | 15             | 15             | 2              | 3              | 25                                 | 32                                         |                      |                                 |                        |
| <a href="#">SC-E04PG-24VDC</a> | \$45.50 | 24VDC                      |                     |                |                |                |                |                |                                    |                                            |                      |                                 |                        |
| <a href="#">SC-E05P-24VAC</a>  | \$42.00 | 24VAC                      |                     |                |                |                |                |                |                                    |                                            |                      |                                 |                        |
| <a href="#">SC-E05P-110VAC</a> | \$42.00 | 110VAC                     |                     |                |                |                |                |                |                                    |                                            |                      |                                 |                        |
| <a href="#">SC-E05P-220VAC</a> | \$42.00 | 220VAC                     |                     |                |                |                |                |                |                                    |                                            |                      |                                 |                        |
| <a href="#">SC-E05P-440VAC</a> | \$42.00 | 440-480VAC                 | 5                   | 7.5            | 15             | 15             | 2              | 3              | 25                                 | 32                                         |                      |                                 |                        |
| <a href="#">SC-E05P-500VAC</a> | \$42.00 | 500-550VAC                 |                     |                |                |                |                |                |                                    |                                            |                      |                                 |                        |
| <a href="#">SC-E05PG-24VDC</a> | \$54.00 | 24VDC                      |                     |                |                |                |                |                |                                    |                                            |                      |                                 |                        |

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Notes: 1. AC3 type loads consist of squirrel cage three-phase motors; occasional, limited jogging duty.

2. AC1 non-inductive or slightly inductive loads. Typically resistive loads (i.e. furnaces, ovens, etc.)

# Fuji Duo Series SC-E Contactors



| SC-E Series Contactors Specifications - UL and CSA |          |                      |                     |          |          |          |               |          |                                 |                                         |                   |                              |                  |
|----------------------------------------------------|----------|----------------------|---------------------|----------|----------|----------|---------------|----------|---------------------------------|-----------------------------------------|-------------------|------------------------------|------------------|
| Model                                              | Price    | Nominal Coil Voltage | Rated Capacity (HP) |          |          |          |               |          | Rated AC-3 Current (A) [note 1] | Rated AC-1 Thermal Current (A) [note 2] | SCCR Ratings (KA) | Rated Insulation Voltage (V) | Frame Width (mm) |
|                                                    |          |                      | 3-Phase Motor       |          |          |          | 1-Phase Motor |          |                                 |                                         |                   |                              |                  |
|                                                    |          |                      | 200V                | 220–240V | 440–480V | 550–600V | 100–20V       | 220–240V |                                 |                                         |                   |                              |                  |
| <a href="#">SC-E1-24VAC</a>                        | \$56.00  | 24VAC                | 7.5                 | 10       | 25       | 25       | 2             | 3        | 32                              | 50                                      | 5                 | 690                          | 54               |
| <a href="#">SC-E1-110VAC</a>                       | \$56.00  | 110VAC               |                     |          |          |          |               |          |                                 |                                         |                   |                              |                  |
| <a href="#">SC-E1-220VAC</a>                       | \$56.00  | 220VAC               |                     |          |          |          |               |          |                                 |                                         |                   |                              |                  |
| <a href="#">SC-E1-440VAC</a>                       | \$56.00  | 440-480VAC           |                     |          |          |          |               |          |                                 |                                         |                   |                              |                  |
| <a href="#">SC-E1-500VAC</a>                       | \$56.00  | 500-550VAC           |                     |          |          |          |               |          |                                 |                                         |                   |                              |                  |
| <a href="#">SC-E1G-24VDC</a>                       | \$66.00  | 24VDC                |                     |          |          |          |               |          |                                 |                                         |                   |                              |                  |
| <a href="#">SC-E2-24VAC</a>                        | \$79.00  | 24VAC                | 10                  | 15       | 30       | 30       | 3             | 5        | 40                              | 60                                      |                   |                              |                  |
| <a href="#">SC-E2-110VAC</a>                       | \$79.00  | 110VAC               |                     |          |          |          |               |          |                                 |                                         |                   |                              |                  |
| <a href="#">SC-E2-220VAC</a>                       | \$79.00  | 220VAC               |                     |          |          |          |               |          |                                 |                                         |                   |                              |                  |
| <a href="#">SC-E2-440VAC</a>                       | \$79.00  | 440-480VAC           |                     |          |          |          |               |          |                                 |                                         |                   |                              |                  |
| <a href="#">SC-E2G-24VDC</a>                       | \$96.00  | 24VDC                |                     |          |          |          |               |          |                                 |                                         |                   |                              |                  |
| <a href="#">SC-E2S-24VAC</a>                       | \$96.00  | 24VAC                |                     |          |          |          |               |          |                                 |                                         |                   |                              |                  |
| <a href="#">SC-E2S-110VAC</a>                      | \$96.00  | 110VAC               | 15                  | 20       | 30       | 30       | 3             | 10       | 50                              | 65                                      |                   |                              |                  |
| <a href="#">SC-E2S-220VAC</a>                      | \$96.00  | 220VAC               |                     |          |          |          |               |          |                                 |                                         |                   |                              |                  |
| <a href="#">SC-E2S-440VAC</a>                      | \$96.00  | 440-480VAC           |                     |          |          |          |               |          |                                 |                                         |                   |                              |                  |
| <a href="#">SC-E2S-500VAC</a>                      | \$96.00  | 500-550VAC           |                     |          |          |          |               |          |                                 |                                         |                   |                              |                  |
| <a href="#">SC-E2SG-24VDC</a>                      | \$114.00 | 24VDC                |                     |          |          |          |               |          |                                 |                                         |                   |                              |                  |
| <a href="#">SC-E3-24VAC</a>                        | \$109.00 | 24VAC                |                     |          |          |          |               |          |                                 |                                         |                   |                              | 20               |
| <a href="#">SC-E3-110VAC</a>                       | \$109.00 | 110VAC               |                     |          |          |          |               |          |                                 |                                         |                   |                              |                  |
| <a href="#">SC-E3-220VAC</a>                       | \$109.00 | 220VAC               |                     |          |          |          |               |          |                                 |                                         |                   |                              |                  |
| <a href="#">SC-E3-440VAC</a>                       | \$109.00 | 440-480VAC           |                     |          |          |          |               |          |                                 |                                         |                   |                              |                  |
| <a href="#">SC-E3G-24VDC</a>                       | \$133.00 | 24VDC                |                     |          |          |          |               |          |                                 |                                         |                   |                              |                  |
| <a href="#">SC-E4-24VAC</a>                        | \$111.00 | 24VAC                | 25                  | 30       | 50       | 50       | 5             | 15       | 80                              | 105                                     |                   |                              |                  |
| <a href="#">SC-E4-110VAC</a>                       | \$111.00 | 110VAC               |                     |          |          |          |               |          |                                 |                                         |                   |                              |                  |
| <a href="#">SC-E4-220VAC</a>                       | \$111.00 | 220VAC               |                     |          |          |          |               |          |                                 |                                         |                   |                              |                  |
| <a href="#">SC-E4-440VAC</a>                       | \$111.00 | 440-480VAC           |                     |          |          |          |               |          |                                 |                                         |                   |                              |                  |
| <a href="#">SC-E4-500VAC</a>                       | \$111.00 | 500-550VAC           |                     |          |          |          |               |          |                                 |                                         |                   |                              |                  |
| <a href="#">SC-E4G-24VDC</a>                       | \$138.00 | 24VDC                |                     |          |          |          |               |          |                                 |                                         |                   |                              | 30               |
| <a href="#">SC-E5-24V</a>                          | \$277.00 | 24VAC/VDC            |                     |          |          |          |               |          |                                 |                                         |                   |                              |                  |
| <a href="#">SC-E5-100V</a>                         | \$277.00 | 110VAC/VDC           |                     |          |          |          |               |          |                                 |                                         |                   |                              |                  |
| <a href="#">SC-E5-200V</a>                         | \$277.00 | 220VAC/VDC           |                     |          |          |          |               |          |                                 |                                         |                   |                              |                  |
| <a href="#">SC-E5-400V</a>                         | \$277.00 | 380-450VAC           |                     |          |          |          |               |          |                                 |                                         |                   |                              |                  |
| <a href="#">SC-E5-500V</a>                         | \$277.00 | 460-575VAC           | 40                  | 40       | 75       | 100      | 10            | 20       | 125                             | 150                                     |                   |                              |                  |
| <a href="#">SC-E6-24V</a>                          | \$355.00 | 24VAC/VDC            |                     |          |          |          |               |          |                                 |                                         |                   |                              |                  |
| <a href="#">SC-E6-100V</a>                         | \$355.00 | 110VAC/VDC           |                     |          |          |          |               |          |                                 |                                         |                   |                              |                  |
| <a href="#">SC-E6-200V</a>                         | \$355.00 | 220VAC/VDC           |                     |          |          |          |               |          |                                 |                                         |                   |                              |                  |
| <a href="#">SC-E6-500V</a>                         | \$355.00 | 460-575VAC           |                     |          |          |          |               |          |                                 |                                         |                   |                              |                  |
| <a href="#">SC-E7-24V</a>                          | \$413.00 | 24VAC/VDC            |                     |          |          |          |               |          |                                 |                                         | 50                |                              | 50               |
| <a href="#">SC-E7-100V</a>                         | \$413.00 | 110VAC/VDC           |                     |          |          |          |               |          |                                 |                                         |                   |                              |                  |
| <a href="#">SC-E7-200V</a>                         | \$413.00 | 220VAC/VDC           |                     |          |          |          |               |          |                                 |                                         |                   |                              |                  |
| <a href="#">SC-E7-400V</a>                         | \$413.00 | 380-450VAC           |                     |          |          |          |               |          |                                 |                                         |                   |                              |                  |
| <a href="#">SC-E7-500V</a>                         | \$413.00 | 460-575VAC           |                     |          |          |          |               |          |                                 |                                         |                   |                              |                  |
|                                                    |          |                      |                     |          |          |          |               |          |                                 |                                         |                   |                              |                  |

Notes: 1. AC3 type loads consist of squirrel cage three-phase motors; occasional, limited jogging duty.

2. AC1 non-inductive or slightly inductive loads. Typically resistive loads (i.e. furnaces, ovens, etc.)

# Fuji Duo Series SC-E Contactors



| SC-E Series Contactors Specifications - IEC |                           |             |           |          |                             |           |          |          |                     |          |                           |                                         |
|---------------------------------------------|---------------------------|-------------|-----------|----------|-----------------------------|-----------|----------|----------|---------------------|----------|---------------------------|-----------------------------------------|
| Contactor Type                              | Rated Capacity (kW)       |             |           |          | Rated Operating Current (A) |           |          |          |                     |          | Rated Thermal Current (A) | Internal Auxilliary Contact Arrangement |
|                                             | 3-Phase Motor AC-3 / AC-4 |             |           |          | 3-Phase Motor AC-3 / AC-4   |           |          |          | Resistive Load AC-1 |          |                           |                                         |
|                                             | 200-240V                  | 380-440V    | 500-550V  | 600-690V | 200-240V                    | 380-440V  | 500-550V | 600-690V | 200-240V            | 380-440V |                           |                                         |
| SC-E02(G)-xxx                               | 2.2 / 2.2                 | 4 / 4       | 4 / NA    | 4 / NA   | 9 / 9                       | 9 / 9     | 7 / NA   | 5 / NA   | 20                  | 20       | 20                        | -                                       |
| SC-E03(G)-xxx                               | 3 / 3                     | 5.5 / 5.5   | 5.5 / NA  | 5.5 / NA | 12 / 12                     | 12 / 12   | 9 / NA   | 7 / NA   | 20                  | 20       | 20                        | -                                       |
| SC-E04(G)-xxx                               | 4 / 4                     | 7.5 / 7.5   | 7.5 / NA  | 7.5 / NA | 18 / 18                     | 18 / 18   | 13 / NA  | 9 / NA   | 25                  | 25       | 25                        | -                                       |
| SC-E05(G)-xxx                               | 5.5 / 4                   | 11 / 7.5    | 11 / NA   | 7.5 / NA | 25 / 18                     | 25 / 18   | 17 / NA  | 9 / NA   | 32                  | 32       | 32                        | -                                       |
| SC-E1(G)-xxx                                | 7.5 / 7.5                 | 15 / 15     | 15 / NA   | 11 / NA  | 32 / 32                     | 32 / 32   | 24 / NA  | 15 / NA  | 50                  | 50       | 50                        | -                                       |
| SC-E2(G)-xxx                                | 11 / 11                   | 18.5 / 18.5 | 18.5 / NA | 15 / NA  | 40 / 40                     | 40 / 40   | 29 / NA  | 19 / NA  | 60                  | 60       | 60                        | -                                       |
| SC-E2S(G)-xxx                               | 15 / 11                   | 22 / 18.5   | 25 / NA   | 22 / NA  | 50 / 40                     | 50 / 40   | 38 / NA  | 26 / NA  | 65                  | 65       | 65                        | -                                       |
| SC-E3(G)-xxx                                | 18.5 / 18.5               | 30 / 30     | 37 / NA   | 30 / NA  | 68 / 68                     | 65 / 65   | 60 / NA  | 38 / NA  | 100                 | 100      | 100                       | -                                       |
| SC-E4(G)-xxx                                | 22 / 18.5                 | 40 / 30     | 37 / NA   | 37 / NA  | 80 / 68                     | 80 / 65   | 60 / NA  | 44 / NA  | 105                 | 105      | 105                       | -                                       |
| SC-E5-xxx                                   | 30 / 30                   | 55 / 55     | 5 5 / NA  | 55 / NA  | 105 / 105                   | 105 / 105 | 85 / NA  | 64 / NA  | 150                 | 150      | 150                       | 2NO+2NC                                 |
| SC-E6-xxx                                   | 37 / 37                   | 60 / 60     | 6 0 / NA  | 60 / NA  | 125 / 125                   | 125 / 125 | 90 / NA  | 72 / NA  | 150                 | 150      | 150                       | 2NO+2NC                                 |
| SC-E7-xxx                                   | 45 / 45                   | 75 / 75     | 75 / NA   | 90 / NA  | 150 / 150                   | 150 / 150 | 120 / NA | 103 / NA | 200                 | 200      | 200                       | 2NO+2NC                                 |

## Internal Auxiliary Contact Ratings

| Internal Auxiliary Contact Ratings - UL and CSA |                              |                                  |           |             |             |                    |
|-------------------------------------------------|------------------------------|----------------------------------|-----------|-------------|-------------|--------------------|
| Frame Size (note 1)                             | Rated Insulation Voltage (V) | NEMA ICS 5-2000 Ratings (note 2) |           |             |             |                    |
|                                                 |                              | AC Ratings                       |           |             | DC Ratings  |                    |
|                                                 |                              | Designation                      | Making VA | Breaking VA | Designation | Making/Breaking VA |
| E5 to E7-xxx                                    | 690                          | A600                             | 7200      | 720         | Q300        | 69                 |

### Notes:

- E02(G) to E4(G) do not have internal auxiliary contact.
- NEMA ICS 5-2000. For more information, refer to Control Circuit Contact Electrical Ratings, see page tMRC-130.

| Internal Auxiliary Contact Ratings - IEC, JIS        |                                 |                              |                                     |      |                               |                      |            |                      |                                                |
|------------------------------------------------------|---------------------------------|------------------------------|-------------------------------------|------|-------------------------------|----------------------|------------|----------------------|------------------------------------------------|
| Based on IEC 60974-4-1, EN 60947-4-1, JIS C 8201-4-1 |                                 |                              |                                     |      |                               |                      |            |                      |                                                |
| Frame Size<br>( note 1 )                             | Rated Insulation<br>Voltage (V) | Rated Thermal<br>Current (A) | Making and Breaking<br>Capacity (A) |      | Rated Operational Current (A) |                      |            |                      | Minimum<br>Operating<br>Voltage and<br>Current |
|                                                      |                                 |                              | AC Voltage                          | Amps | AC Voltage                    | AC-15<br>(Ind. load) | DC Voltage | DC-13<br>(Ind. load) |                                                |
| E5 to E7-xxx                                         | 690                             | 10                           | 120V                                | 60   | 120V                          | 6                    | 24V        | 3                    | 5VDC, 3mA                                      |
|                                                      |                                 |                              | 220V                                | 30   | 220V                          | 3                    | 48V        | 1.5                  |                                                |
|                                                      |                                 |                              | 440V                                | 15   | 440V                          | 1.5                  | 110V       | 0.55                 |                                                |
|                                                      |                                 |                              | 600V                                | 12   | 600V                          | 1.2                  | 220V       | 0.27                 |                                                |

Note 1: E02(G) to E4(G) do not have internal auxiliary contact.

# Fuji Duo Series SC-E Contactors

## Coil Characteristics

| AC Coil Characteristics |                        |           |                |      |                                      |                                      |                       |                         |
|-------------------------|------------------------|-----------|----------------|------|--------------------------------------|--------------------------------------|-----------------------|-------------------------|
| Frame Size              | Power Consumption (VA) |           | Power Loss (W) |      | Pick-Up Voltage (V)                  | Drop-Out Voltage (V)                 | Operating Time (ms)   |                         |
|                         | Inrush                 | Sealed    | 50Hz           | 60Hz |                                      |                                      | Coil ON to Contact ON | Coil OFF to Contact OFF |
|                         | 50/60Hz                | 50/60Hz   |                |      |                                      |                                      |                       |                         |
| E02 to E05-xxx          | 90/95                  | 9/9       | 2.7            | 2.8  | 0.85 - 1.1 x U.S. rated coil voltage | 0.2 - 0.75 x U.S. rated coil voltage | 9-20                  | 5-16                    |
| E1 to E2S-xxx           | 120/135                | 12.7/12.4 | 3.6            | 3.8  | 0.85 - 1.1 x U.S. rated coil voltage | 0.2 - 0.75 x U.S. rated coil voltage | 10-17                 | 6-13                    |
| E3, E4-xxx              | 180/190                | 13.3/13.4 | 4.5            | 5    | 0.85 - 1.1 x U.S. rated coil voltage | 0.2 - 0.75 x U.S. rated coil voltage | 10-18                 | 8-18                    |
| E5-xxx                  | 80/95                  | 4/4.6     | 3.2            | 3.6  | 0.85 - 1.1 x U.S. rated coil voltage | 0.2 - 0.75 x U.S. rated coil voltage | 39-45                 | 27-33                   |
| E6, E7-xxx              | 190/230                | 4.9/5.8   | 3.4            | 3.7  | 0.8 - 1.1 x U.S. rated coil voltage  | 0.1 - 0.65 x U.S. rated coil voltage | 31-37                 | 30-36                   |

| DC Coil Characteristics |                       |        |                                      |                                      |                       |                         |
|-------------------------|-----------------------|--------|--------------------------------------|--------------------------------------|-----------------------|-------------------------|
| Frame Size              | Power Consumption (W) |        | Pick-Up Voltage (V)                  | Drop-Out Voltage (V)                 | Operating Time (ms)   |                         |
|                         | Inrush                | Sealed |                                      |                                      | Coil ON to Contact ON | Coil OFF to Contact OFF |
| E02G to E05G-xxx        | 7                     | 7      | 0.85 - 1.1 x U.S. rated coil voltage | 0.1 - 0.75 x U.S. rated coil voltage | 45-49                 | 10-26                   |
| E1G to E2SG-xxx         | 9                     | 9      | 0.85 - 1.1 x U.S. rated coil voltage | 0.1 - 0.75 x U.S. rated coil voltage | 40-50                 | 8-17                    |
| E3G, E4G-xxx            | 12                    | 12     | 0.85 - 1.1 x U.S. rated coil voltage | 0.1 - 0.75 x U.S. rated coil voltage | 60-70                 | 14-21                   |
| E5-xxx                  | 90                    | 2.8    | 0.85 - 1.1 x U.S. rated coil voltage | 0.1 - 0.75 x U.S. rated coil voltage | 35-41                 | 26-32                   |
| E6, E7-xxx              | 225                   | 3.2    | 0.8 - 1.1 x U.S. rated coil voltage  | 0.1 - 0.65 x U.S. rated coil voltage | 28-34                 | 27-33                   |

| Operating Coil                   |                                    |
|----------------------------------|------------------------------------|
| AC Coil, SC-E02-xxx to SC-E4-xxx |                                    |
| Voltage Code                     | Coil Operating Voltage / Frequency |
| 24VAC                            | 24VAC 50Hz / 24-26VAC 60Hz         |
| 110VAC                           | 100-110VAC 50Hz / 110-120VAC 60Hz  |
| 220VAC                           | 200-220VAC 50Hz / 220-240VAC 60Hz  |
| 440VAC                           | 415-440VAC 50Hz / 440-480VAC 60Hz  |
| 500VAC                           | 480-500VAC 50Hz / 500-550VAC 60Hz  |

| Operating Coil                                   |                                  |
|--------------------------------------------------|----------------------------------|
| AC/DC Coil (SUPERMAGNET), SC-E5-xxx to SC-E7-xxx |                                  |
| Voltage Code                                     | Coil Operating Voltage/Frequency |
| 24V                                              | 24-25VAC 50/60Hz; 24VDC          |
| 100V                                             | 100-127VAC 50/60Hz; 100-120VDC   |
| 200V                                             | 200-250VAC 50/60Hz; 200-240VDC   |
| 400V                                             | 380-450VAC 50/60Hz               |
| 500V                                             | 460-575VAC 50/60Hz               |

| Operating Coil                     |                        |
|------------------------------------|------------------------|
| DC Coil, SC-E02G-xxx to SC-E4G-xxx |                        |
| Voltage Code                       | Coil Operating Voltage |
| 24VDC                              | 24VDC                  |

## Performance Data

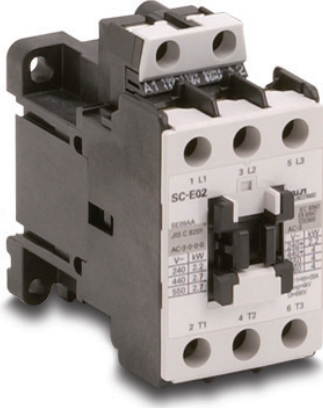
| Frame size | Making current (A) |      | Breaking current (A) |      | Operating cycles per hour | Durability (operations) |            |
|------------|--------------------|------|----------------------|------|---------------------------|-------------------------|------------|
|            | 220V               | 440V | 220V                 | 440V |                           | Electrical              | Mechanical |
| SC-E02     | 108                | 108  | 90                   | 90   | 1800                      | 2 million               | 10 million |
| SC-E03     | 144                | 144  | 120                  | 120  | 1800                      | 1.5 million             | 10 million |
| SC-E04     | 216                | 216  | 180                  | 180  | 1800                      | 1.5 million             | 10 million |
| SC-E05     | 250                | 250  | 200                  | 200  | 1200                      | 1.5 million             | 10 million |
| SC-E1      | 384                | 384  | 320                  | 320  | 1200                      | 1.5 million             | 10 million |
| SC-E2      | 480                | 480  | 400                  | 400  | 1200                      | 1.5 million             | 10 million |
| SC-E2S     | 500                | 500  | 400                  | 400  | 1200                      | 1.5 million             | 10 million |
| SC-E3      | 816                | 780  | 680                  | 650  | 1200                      | 1.5 million             | 5 million  |
| SC-E4      | 816                | 800  | 680                  | 650  | 1200                      | 1 million               | 5 million  |
| SC-E5      | 1260               | 1260 | 1050                 | 1050 | 1200                      | 1 million               | 5 million  |
| SC-E6      | 1500               | 1500 | 1250                 | 1250 | 1200                      | 1 million               | 5 million  |
| SC-E7      | 1800               | 1800 | 1500                 | 1500 | 1200                      | 1 million               | 5 million  |

# Fuji Duo Series SC-E Contactors



## Standard operating conditions

The magnetic contactors are manufactured for use in the standard operating conditions given in the table.



### Standard Operating Conditions

|                            |                                                                                                                                                                                                                               |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Ambient Temperature</b> | Operating: -5 to 55°C [23 to 131°F]<br>No sudden temperature changes resulting in condensation or icing<br>(The average temperature over a 24-hour period must not exceed 35°C [95°F])<br>Storage: -40 to 65°C [-40 to 149°F] |
| <b>Humidity</b>            | 45 to 85%RH                                                                                                                                                                                                                   |
| <b>Altitude</b>            | 2000m or lower                                                                                                                                                                                                                |
| <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>            | 35mm IEC DIN rail mounting (SC-E02 to SC-E4), screw mounting                                                                                                                                                                  |
| <b>Mounting Angle</b>      |                                                                                                                                             |
| <b>Standard</b>            | IEC 947-4-1, EN 60947-4-1, VDE 0660<br>JIS C 8201-4-1, JEM 1038<br>UL 508, file E42419; CSA C22.2, file 20479                                                                                                                 |

## Wiring

Be sure to perform wiring correctly with reference to the wiring diagrams. Main terminals for models SC-E02 to SC-E7 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, resulting in a fire, short-circuit, electric shock, or other potentially dangerous situation. Tighten wires to the torques specified in these tables.

### Wire Sizes, Tightening Torques - Control Circuit

|                                                |                |                                                                                               |
|------------------------------------------------|----------------|-----------------------------------------------------------------------------------------------|
| <b>Solid or Stranded Wire (mm<sup>2</sup>)</b> | <b>One</b>     | 0.75 to 2.5 (1 to 1.6 mm diameter)                                                            |
|                                                | <b>Two</b>     | 0.75 to 2.5 (1 to 1.6 mm diameter)                                                            |
| <b>Stranded Wire</b>                           | <b>mm [in]</b> | 0.75 to 2.5 [0.03 to 0.10]                                                                    |
|                                                | <b>AWG</b>     | 18 to 14                                                                                      |
| <b>Flexible Stranded Wire</b>                  | <b>mm [in]</b> | 0.75 to 2.5 [0.03 to 0.10]                                                                    |
|                                                | <b>AWG</b>     | 18 to 14                                                                                      |
| <b>Ring Terminal [SC-E0x(P) only]</b>          | <b>mm [in]</b> | 7.7 [0.30]                                                                                    |
|                                                | <b>AWG</b>     | 18 to 14                                                                                      |
| <b>Insulation Stripping Length</b>             | <b>One</b>     | 10 mm<br>0.39 in                                                                              |
|                                                | <b>Two</b>     | 10 mm<br>0.39 in                                                                              |
| <b>Fork Terminal</b>                           |                | Max. 7.7mm wide                                                                               |
| <b>Terminal Screw Size</b>                     |                | M3.5                                                                                          |
| <b>Tool</b>                                    |                | Phillips screwdriver, H-type, No. 2 (ISO 8764);<br>ADC part number TW-SD-VPH-1 or TW-SD-VPH-2 |
|                                                |                | Flat-blade screwdriver, 1 x 5.5 x L-type, B (ISO 2830);<br>ADC part number TW-SD-VSL-4        |
| <b>Tightening Torque (N.m)</b>                 |                | 0.8 to 1                                                                                      |

### Wire Sizes, Tightening Torques - Main Circuit

| Contactor Type                        |                | SC-E02-xxx                                                                                    | SC-E03-xxx | SC-E04-xxx | SC-E05-xxx |
|---------------------------------------|----------------|-----------------------------------------------------------------------------------------------|------------|------------|------------|
| <b>Solid Wire (mm<sup>2</sup>)</b>    | <b>One</b>     | 0.75 to 4                                                                                     |            | 0.75 to 6  |            |
|                                       | <b>Two</b>     | 1 to 4                                                                                        |            | 1.5 to 6   |            |
| <b>Stranded Wire (mm<sup>2</sup>)</b> | <b>mm [in]</b> | 0.75 to 10 [0.03 to 0.39]                                                                     |            |            |            |
|                                       | <b>AWG</b>     | 18 to 8                                                                                       |            |            |            |
| <b>Flexible Stranded Wire</b>         | <b>mm [in]</b> | Maximum 9.7 mm [0.38 in] wide                                                                 |            |            |            |
|                                       | <b>AWG</b>     | Maximum 12 maximum                                                                            |            |            |            |
| <b>Ring Terminal [SC-E0x(P) only]</b> | <b>One</b>     | 12 maximum                                                                                    |            | 10 maximum |            |
|                                       | <b>Two</b>     | 12 maximum                                                                                    |            | 10 maximum |            |
| <b>Insulation Stripping Length</b>    | <b>One</b>     | 11 mm<br>0.43 in                                                                              |            |            |            |
|                                       | <b>Two</b>     | 11 mm<br>0.43 in                                                                              |            |            |            |
| <b>Terminal Screw Size</b>            |                | M4                                                                                            |            |            |            |
| <b>Tool</b>                           |                | Phillips screwdriver, H-type, No. 2 (ISO 8764);<br>ADC part number TW-SD-VPH-1 or TW-SD-VPH-2 |            |            |            |
|                                       |                | Flat-blade screwdriver, 1 x 5.5 x L-type, B (ISO 2830);<br>ADC part number TW-SD-VSL-4        |            |            |            |
| <b>Tightening Torque (N.m)</b>        |                | 1.2 to 1.5                                                                                    |            |            |            |

# Fuji Duo Series SC-E Contactors

| Wire Sizes, Tightening Torques - Main Circuit |                                                                    |            |                                                                                    |                          |               |              |
|-----------------------------------------------|--------------------------------------------------------------------|------------|------------------------------------------------------------------------------------|--------------------------|---------------|--------------|
| Contactor Type                                |                                                                    |            | SC-E1, E2, E2S-xxx                                                                 | SC-E3, E4-xxx            | SC-E5, E6-xxx | SC-E7-xxx    |
| Top-Only Connection                           | Solid or stranded wire (mm <sup>2</sup> ) <sup>1</sup>             |            | 0.75 to 35                                                                         | 1.5 to 70                | 4 to 70       | 4 to 120     |
|                                               | Flexible stranded wire with sleeve (mm <sup>2</sup> ) <sup>1</sup> |            | 0.75 to 25                                                                         | 1.5 to 50                | 2.5 to 50     | 2.5 to 95    |
|                                               | Flexible stranded wire without sleeve (mm <sup>2</sup> )           |            | 0.75 to 25                                                                         | 1.5 to 50                | 4 to 50       | 4 to 95      |
|                                               | AWG                                                                |            | 18 to 2                                                                            | 16 to 2/0                | 12 to 2/0     | 12 to 250MCM |
|                                               | Solid or stripping length (mm)                                     |            | 15                                                                                 | 19.5                     | 26.5          | 28.5         |
| Bottom-Only Connection                        | Single stranded wire (mm <sup>2</sup> ) <sup>1</sup>               |            | 0.75 to 25                                                                         | 1.5 to 50                | 4 to 70       | 4 to 120     |
|                                               | Flexible stranded wire with sleeve (mm <sup>2</sup> ) <sup>1</sup> |            | 0.75 to 16                                                                         | 1.5 to 35                | 2.5 to 50     | 2.5 to 95    |
|                                               | Flexible stranded wire without sleeve (mm <sup>2</sup> )           |            | 0.75 to 16                                                                         | 1.5 to 35                | 4 to 50       | 4 to 95      |
|                                               | AWG                                                                |            | 18 to 3                                                                            | 16 to 1/0                | 12 to 2/0     | 12 to 250MCM |
|                                               | Sheath stripping length (mm)                                       |            | 12.5                                                                               | 16                       | 26.5          | 28.5         |
| Top/Bottom Connection                         | Solid or stranded wire (mm <sup>2</sup> ) <sup>1</sup>             | Top/bottom | 0.75 to 25                                                                         | 1.5 to 50                | 4 to 70       | 4 to 120     |
|                                               | Flexible stranded wire with sleeve (mm <sup>2</sup> ) <sup>1</sup> | Top/bottom | 0.75 to 16                                                                         | 1.5 to 35                | 2.5 to 50     | 2.5 to 95    |
|                                               | Flexible stranded wire without sleeve (mm <sup>2</sup> )           | Top/bottom | 0.75 to 16                                                                         | 1.5 to 35                | 4 to 50       | 4 to 95      |
|                                               | AWG                                                                | Top/bottom | 18 to 3                                                                            | 16 to 1/0                | 12 to 2/0     | 12 to 250MCM |
| Tool                                          |                                                                    |            | Phillips screwdriver, H-type, No.2 (ISO 8764);<br>ADC part number DN-SP1 or DN-SP2 | Hex. wrench 4 (ISO 2936) |               |              |
|                                               |                                                                    |            | Flat-blade screwdriver, 1 x 5, 5xL-type, B (ISO 2830);<br>ADC part number DN-SS5   |                          |               |              |
| Tightening Torque (N•m)                       |                                                                    |            | 2.5                                                                                | 8                        |               | 10           |
| Self-locking Torque (N•m) <sup>2</sup>        |                                                                    |            | 1                                                                                  | 2                        |               |              |

Note 1: 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.

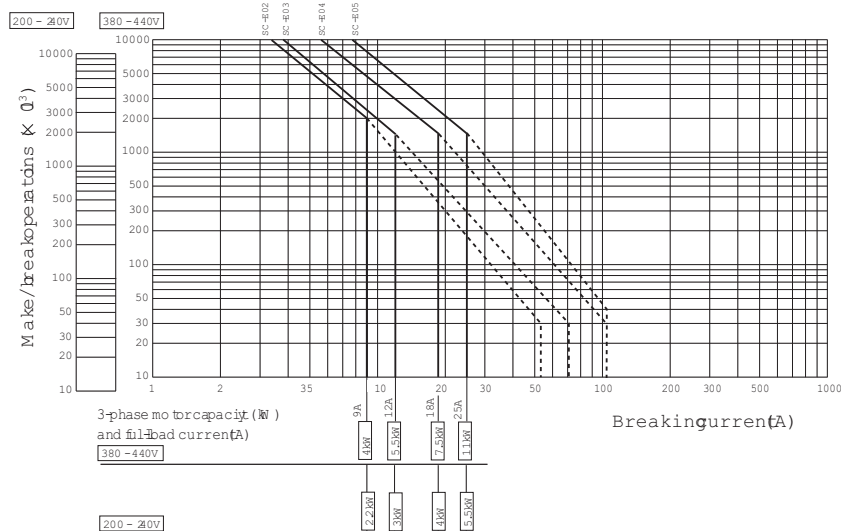
Flexible stranded wire consists of more number wires than the above.

Note 2: The tightening bolt must be loosened in order to insert the wire. However, stop loosening the bolt when the anti-drop attachment on the bottom of the bolt reaches the top edge of the terminal. If a torque exceeding that given in the table is applied in this state, the retaining bracket may loosen.

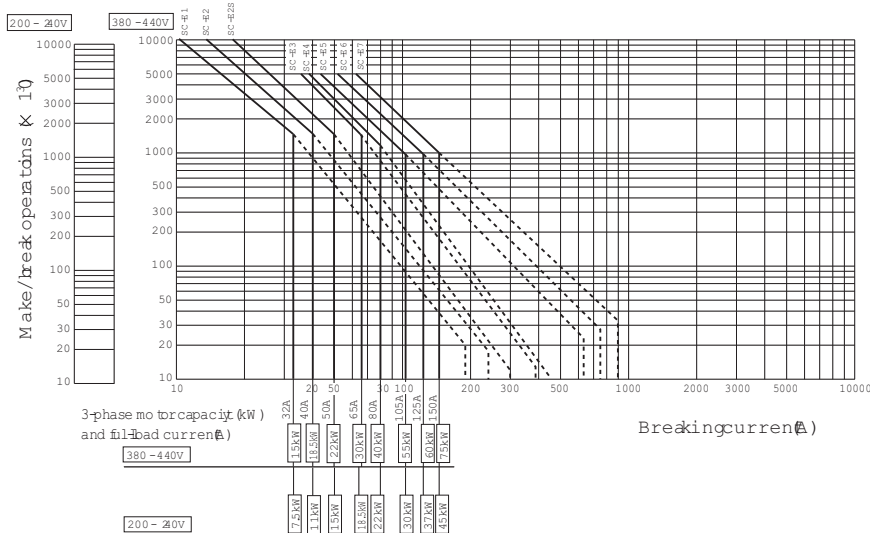
# Fuji Duo Series SC-E Contactors

## Electrical durability

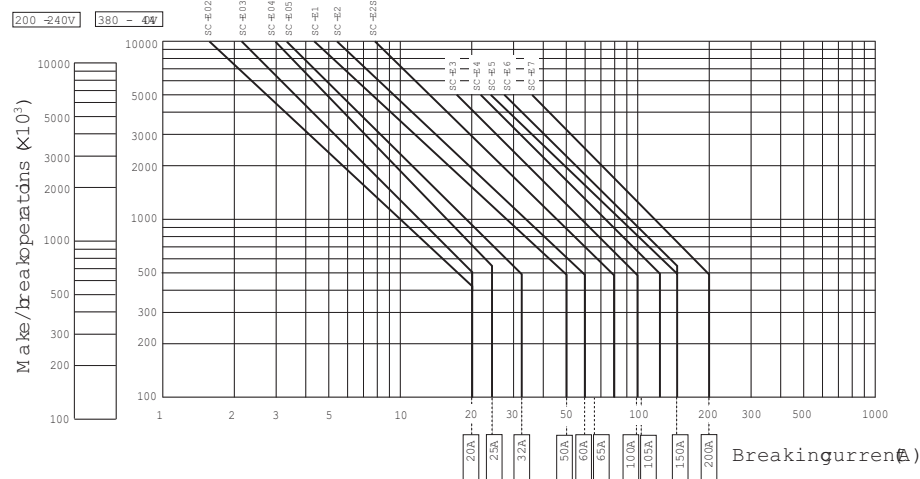
AC-3 duty/SC-E02 to SC-E05-xxx



AC-3 duty/SC-E1 to SC-E7-xxx



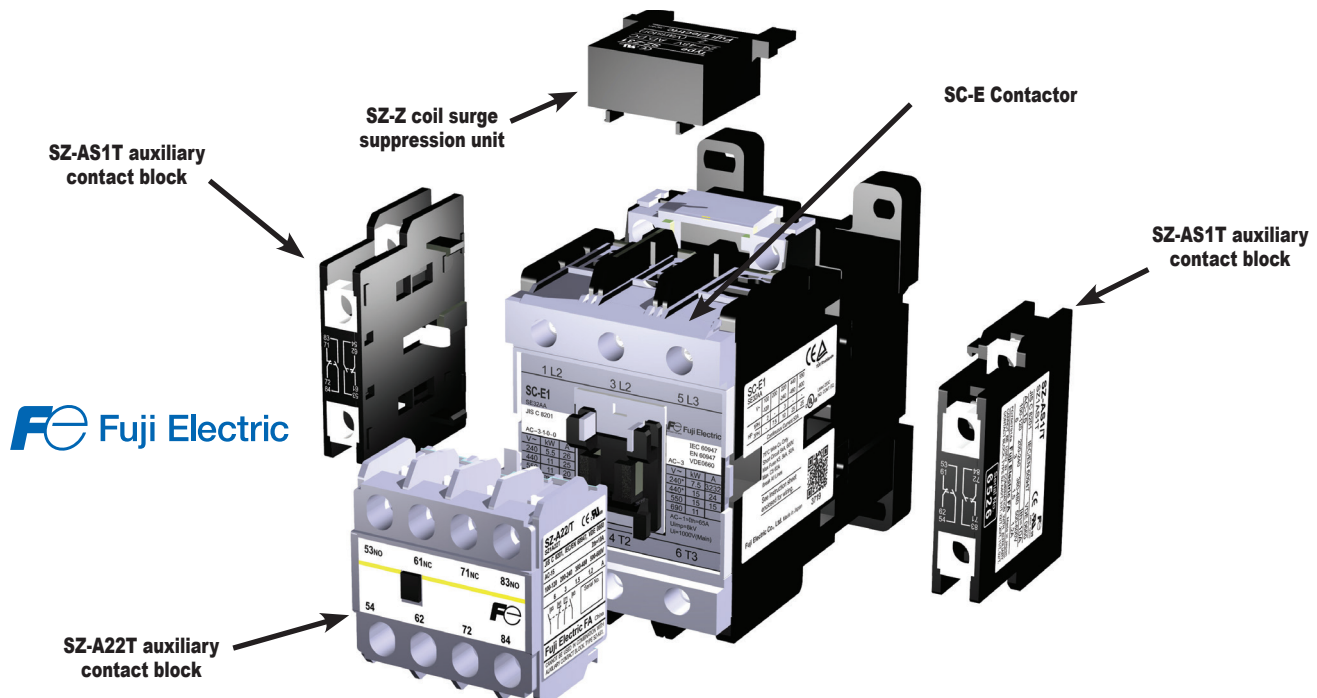
AC-1 duty/SC-E02 to SC-E7-xxx



# Fuji Duo Series SC-E Contactors

## Accessories

### Optional accessories



#### Auxiliary contact blocks with terminal covers

Maximum auxiliary contact blocks:

2 side mounted (1 per side) OR 1 front mounted. The front and side blocks cannot be mounted together on the same contactor.



**SZ-A22T**



**SZ-A11T**



**SZ-AS1T**



**SZ-AS2T**

#### Caution on use:

1. Front mounting auxiliary contact block and side mounting block cannot be attached to one contactor at the same time.
2. Only one front mounting block can be attached to one contactor.
3. Where interlock unit is already attached, side mounting auxiliary contact block can be attached on one side only.

#### Auxiliary Contact Blocks with Terminal Covers

| Part Number                    | Price   | Applicable Contactor       | Mounting       | Number of Contacts | Contact Arrangement |
|--------------------------------|---------|----------------------------|----------------|--------------------|---------------------|
| <a href="#"><u>SZ-A22T</u></a> | \$19.50 | SC-E02(G)-xxx to E4(G)-xxx | Front mounting | 4                  | 2NO + 2NC           |
| <a href="#"><u>SZ-A20T</u></a> | \$12.50 |                            |                | 2                  | 2NO                 |
| <a href="#"><u>SZ-A11T</u></a> | \$12.50 |                            |                | 2                  | 1NO + 1NC           |
| <a href="#"><u>SZ-AS1T</u></a> | \$19.50 | SC-E02(G)-xxx to E4(G)-xxx | Side mounting  | 2                  | 1NO + 1NC           |
| <a href="#"><u>SZ-AS2T</u></a> | \$19.50 |                            |                | 2                  | 1NO + 1NC           |

#### Accessory Auxiliary Contact Ratings - UL and CSA

| NEMA ICS 5-2000 Ratings ( note 1 ) |           |             |             |                    |
|------------------------------------|-----------|-------------|-------------|--------------------|
| AC Ratings                         |           |             | DC Ratings  |                    |
| Designation                        | Making VA | Breaking VA | Designation | Making/Breaking VA |
| A600                               | 7200      | 720         | Q300        | 69                 |

Note: For more information, refer to Control Circuit Contact Electrical Ratings

Accessory Auxiliary Contact Ratings - IEC and JIS continued on next page.

# Fuji Duo Series SC-E Contactors Accessories

## Accessory Auxiliary Contact Ratings - IEC and JIS

| Rated Thermal Current (A) | Making and Breaking Capacity at AC (A) |    | Rated operational current (A) |                   |         |                   | Minimum Operating Voltage and Current |
|---------------------------|----------------------------------------|----|-------------------------------|-------------------|---------|-------------------|---------------------------------------|
|                           |                                        |    | AC                            |                   | DC      |                   |                                       |
|                           |                                        |    | Voltage                       | AC-15 (Ind. load) | Voltage | DC-13 (Ind. load) |                                       |
| 10                        | 120V                                   | 60 | 120V                          | 6                 | 24V     | 3                 | 5VDC, 3mA                             |
|                           | 220V                                   | 30 | 220V                          | 3                 | 48V     | 1.5               |                                       |
|                           | 440V                                   | 15 | 440V                          | 1.5               | 110V    | 0.55              |                                       |
|                           | 600V                                   | 12 | 600V                          | 1.2               | 220V    | 0.27              |                                       |

### Coil surge suppression units

**SZ-Z1****SZ-Z37**

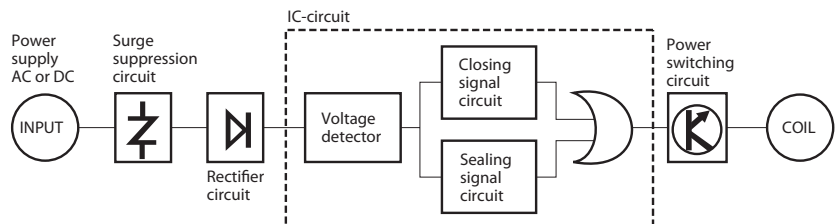
Suppress surge voltage due to contactor ON-OFF operations; easily connect to contactor coil terminals.

**Important:** When driving 24VDC Fuji contactors with a PLC solid-state output, we recommend using diode terminal block part number DN-D10DR-A or ZL-TSD8-24. Please see application note AN-MISC-032 for additional information located on [AutomationDirect.com/technotes](http://AutomationDirect.com/technotes).

### Coil Surge Suppression Units

| Part Number          | Price   | Applicable Contactor  |                         | Operating Coil Voltage | Device               |
|----------------------|---------|-----------------------|-------------------------|------------------------|----------------------|
|                      |         | AC Operated           | DC Operated             |                        |                      |
| <b>SZ-Z1</b>         | \$15.50 | SC-E02-xxx to E05-xxx | SC-E02G-xxx to E05G-xxx | 24-48V AC/DC           | varistor             |
| <b>SZ-Z2</b>         | \$15.50 |                       |                         | 100-250V AC/DC         |                      |
| <b>SZ-Z31</b>        | \$20.50 | SC-E1-xxx to -E4xxx   | SC-E1G-xxx to E4G-xxx   | 24-48V AC/DC           | varistor             |
| <b>SZ-Z32</b>        | \$20.50 |                       |                         | 100-250V AC/DC         |                      |
| <b>SZ-Z4</b>         | \$17.00 | SC-E02-xxx to E05-xxx | SC-E02G-xxx to E05G-xxx | 24-48V AC/DC           | capacitor / resistor |
| <b>SZ-Z5</b>         | \$17.50 |                       |                         | 100-250V AC/DC         |                      |
| <b>SZ-Z34</b>        | \$20.50 | SC-E1-xxx to E4-xxx   | -                       | 24-48V AC/DC           |                      |
| <b>SZ-Z35</b>        | \$20.50 |                       |                         | 100-250V AC/DC         |                      |
| <b>SZ-Z36</b>        | \$20.50 | -                     | SC-E1G-xxx to E4G-xxx   | 24-48V AC/DC           |                      |
| <b>SZ-Z37</b>        | \$20.50 |                       |                         | 100-250V AC/DC         |                      |
| <b>SC-E02 to E05</b> |         |                       |                         | 380-440V AC/DC         |                      |
| <b>SC-E1 to E4</b>   |         |                       |                         | 380-440V AC/DC         |                      |

**Note:** Super Magnet Coils on SC-E5, SC-E6, and SC-E7 contactors have internal surge suppression. See diagram below.



# Fuji Duo Series SC-E Accessories

## Connection kits for reversing SC-E contactors

**SZ-ERW1A****SZ-ERW1B****SZ-ERW1D****SZ-ERW2A****SZ-ERW2B****SZ-ERW2D****SZ-ERW3A****SZ-ERW3B****SZ-ERW3D**

## Connection Kits

| Part Number      | Price   | Description                                                                                                       | Use with Contactors      |
|------------------|---------|-------------------------------------------------------------------------------------------------------------------|--------------------------|
| <b>SZ-ERW1A</b>  | \$7.75  | Line side reversing connection kit.                                                                               | SC-E02-xxx to SC-E05-xxx |
| <b>SZ-ERW1B*</b> | \$7.75  | Load side reversing connection kit. For wiring load side when using contactors only or with a MMS device.         |                          |
| <b>SZ-ERW1D</b>  | \$7.75  | Load side reversing connection kit. For wiring load side when using two contactors with a thermal overload relay. |                          |
| <b>SZ-ERW2A</b>  | \$15.50 | Line side reversing connection kit.                                                                               | SC-E1-xxx to SC-E2S-xxx  |
| <b>SZ-ERW2B*</b> | \$15.50 | Load side reversing connection kit. For wiring load side when using contactors only or with a MMS device.         |                          |
| <b>SZ-ERW2D</b>  | \$15.50 | Load side reversing connection kit. For wiring load side when using two contactors with a thermal overload relay. |                          |
| <b>SZ-ERW3A</b>  | \$27.50 | Line side reversing connection kit.                                                                               | SC-E3-xxx to SC-E4-xxx   |
| <b>SZ-ERW3B*</b> | \$27.50 | Load side reversing connection kit. For wiring load side when using contactors only or with a MMS device.         |                          |
| <b>SZ-ERW3D</b>  | \$27.50 | Load side reversing connection kit. For wiring load side when using two contactors with a thermal overload relay. |                          |

\* When using the SZ-ERWxB, a TK-E thermal overload relay must be separately mounted and wired using an SZ-HxE base. To assemble a TK-E overload directly to the contactor use a SZ-ERWxD load side connection kit.

## Mechanical interlock unit

**SZ-RM**

## Mechanical Interlock Unit

| Part Number  | Price   | Description                                                                                    | Use with Contactors     |
|--------------|---------|------------------------------------------------------------------------------------------------|-------------------------|
| <b>SZ-RM</b> | \$19.50 | Used when building a reversing starter. Prevents both contactors from being pulled in at once. | SC-E02-xxx to SC-E4-xxx |

NOTE: Mechanical interlock unit cannot be used with SC-E5-xxx through E7-xxx contactors.

## Parts for reversing Fuji SC-E contactors

- SC-E (Contactors - qty. 2)
- SZ-ERWxA (Line side connection kit - qty. 1)
- SZ-ERWxB\* (Load side connection kit - qty. 1)
- SZ-RM (Mechanical interlock - qty. 1)
- SZ-AxxT (Auxiliary contact blocks - qty. 1)

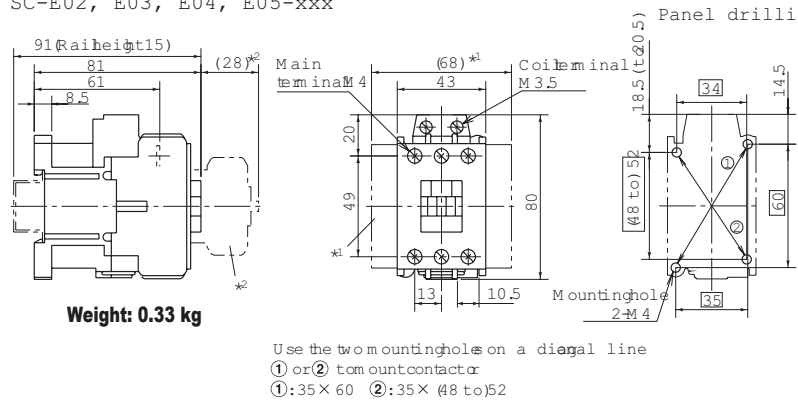


# Fuji Duo Series SC-E Contactors

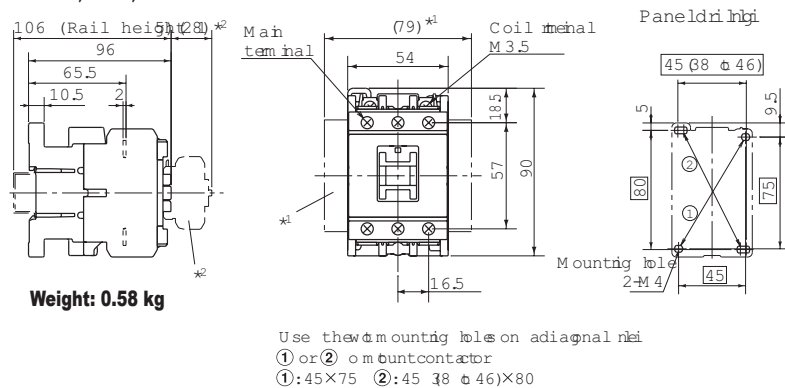
## Dimensions (mm)

### Contactors

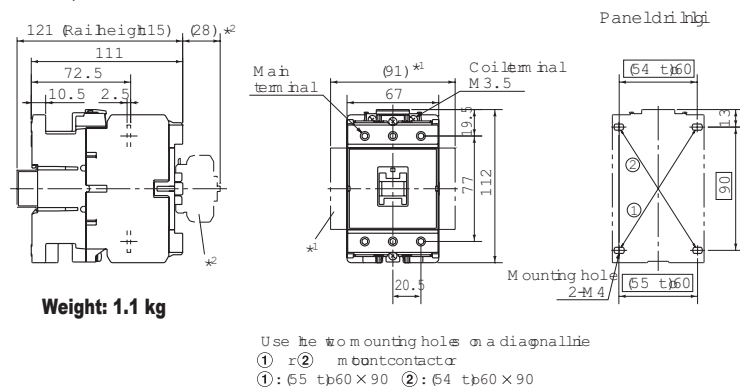
SC-E02, E03, E04, E05-xxx



SC-E1, E2, E2S-xxx



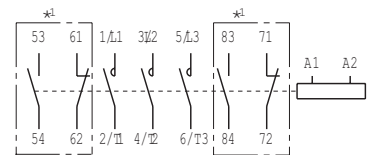
SC-E3, E4-xxx



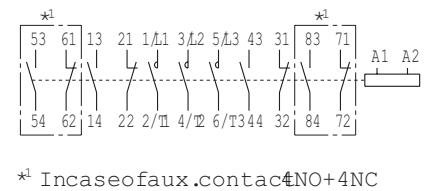
## Wiring diagrams

### Contactors

SC-E02 to E05-xxx  
SC-E1 to E4-xxx  
SC-E02G to E05G-xxx  
SC-E1G to E4G-xxx  
SC-E2S, E2SG-xxx



SC-E5, E6, E7-xxx

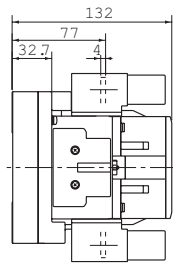


# Fuji Duo Series SC-E Contactors

## Dimensions (mm)

### Contactors

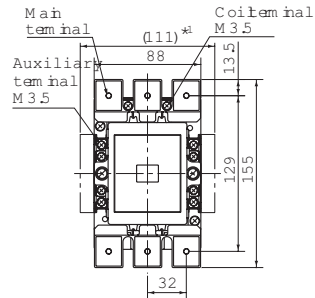
SC-E5-xxx



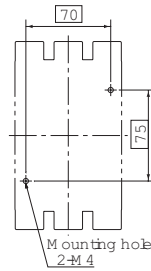
Weight: 2.0 kg

\*1 Side mounting aux. contact block

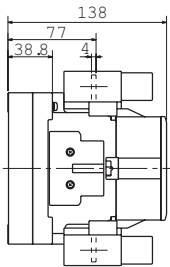
\*2 Front mounting aux. contact block



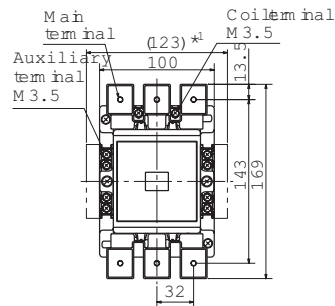
Panel drilling



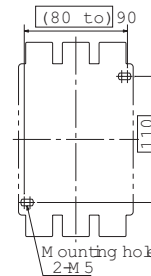
SC-E6-xxx



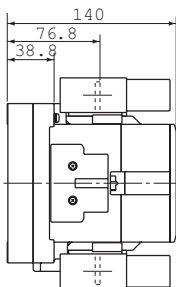
Weight: 2.6 kg



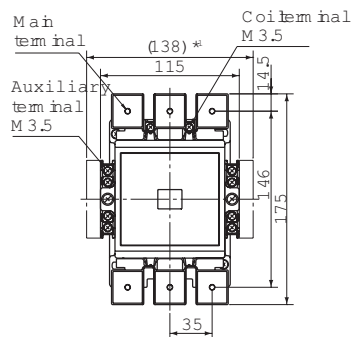
Panel drilling



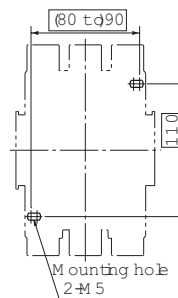
SC-E7-xxx



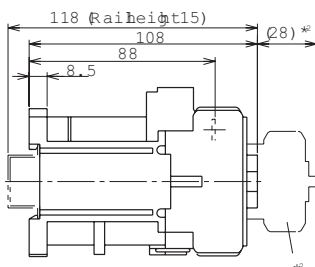
Weight: 2.9 kg



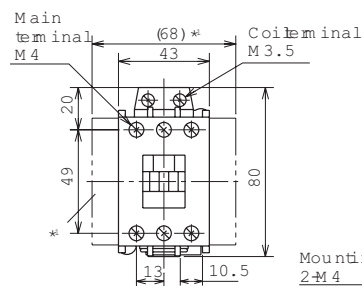
Panel drilling



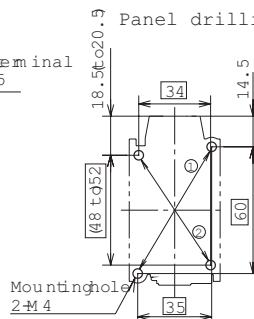
SC-E02G, E03G, E04G, E05G-xxx



Weight: 0.59 kg



Panel drilling



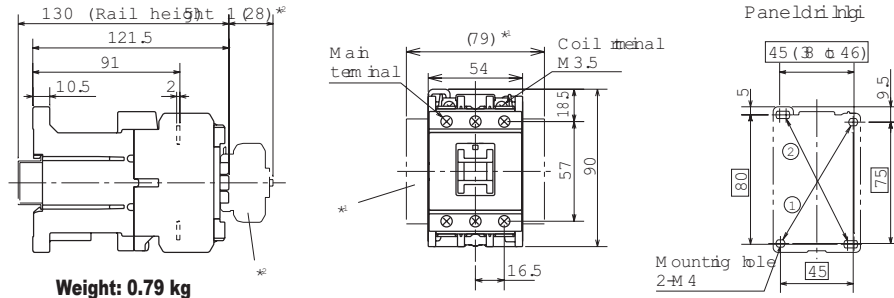
Use the two mounting holes on a diagonal line  
 ① or ② to mount contactor  
 ① 35×60 ② 35×(48 to) 52

# Fuji Duo Series SC-E Contactors

## Dimensions [mm]

### Contactors

SC-E1G, E2G, E2SG-xxx

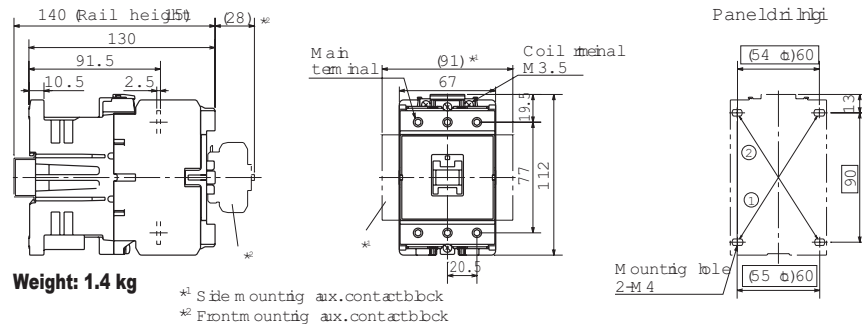


\*1 Side mounting aux. contact block  
 \*2 Front mounting aux. contact block

Use the mounting holes on diagonal rail  
 ① or ② on front contactor  
 ①: 45 × 75 ②: 45 (3 to 46) × 80



SC-E3G, E4G-xxx



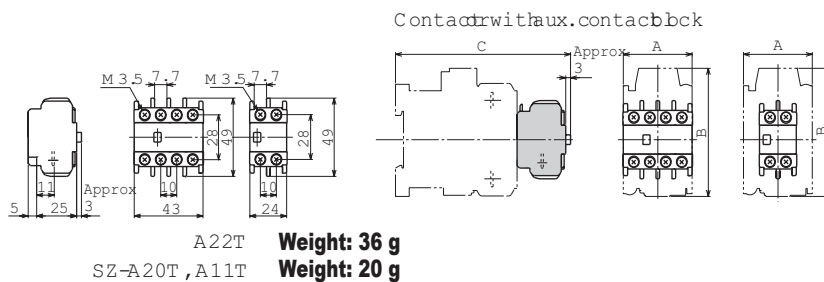
\*1 Side mounting aux. contact block  
 \*2 Front mounting aux. contact block

Use the mounting holes on diagonal rail  
 ① or ② on front contactor  
 ①: 65 (54 to 60) × 90 ②: 64 (54 to 60) × 90

## Dimensions [mm]

### Auxiliary contact blocks - front mounting

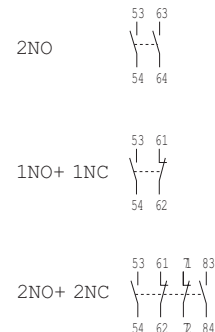
SZ-A22T, A20T, A11T for SC-E02 (G)-xxx to E4 (G)-xxx



| Type                            | A  | B   | C     |
|---------------------------------|----|-----|-------|
| SC-E02, E03, E04, E05-xxx       | 43 | 80  | 109   |
| SC-E1, E2, E2S-xxx              | 54 | 90  | 124   |
| SC-E3, E4-xxx                   | 67 | 112 | 139   |
| SC-E02G, E03G, E04G, E05(G)-xxx | 43 | 80  | 136   |
| SC-E1G, E2G, E2SG-xxx           | 54 | 90  | 149.5 |
| SC-E3G, E4G-xxx                 | 67 | 112 | 158   |

## Wiring Diagrams

SZ-A22T, A20T, A11T



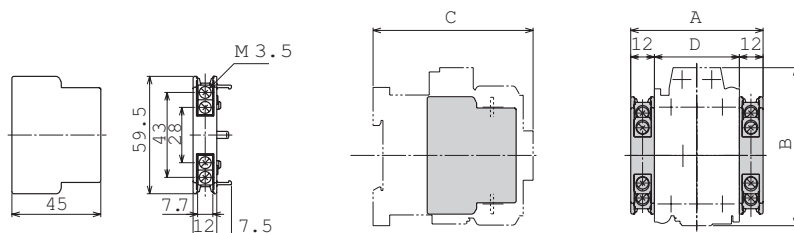
# Fuji Duo Series SC-E Contactors

## Dimensions (mm)

### Auxiliary contact blocks - side mounting

SZ-AS1T for SC-E02(G)-xxx to ~~E4~~(G)-

Contactor with ~~aux.~~ contact block



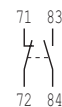
Weight: 28 g

| Type                            | A  | B   | C     | D  |
|---------------------------------|----|-----|-------|----|
| SC-E02, E03, E04, E05-xxx       | 67 | 80  | 81    | 43 |
| SC-E1, E2, E2S-xxx              | 78 | 90  | 54    | 54 |
| SC-E3, E4-xxx                   | 91 | 112 | 67    | 67 |
| SC-E02G, E03G, E04G, E05(G)-xxx | 67 | 80  | 108   | 43 |
| SC-E1G, E2G, E2SG-xxx           | 78 | 90  | 121.5 | 54 |
| SC-E3G, E4G-xxx                 | 91 | 112 | 130   | 67 |

## Wiring Diagrams

1 N.O. + 1 N.C.

Mounted on right

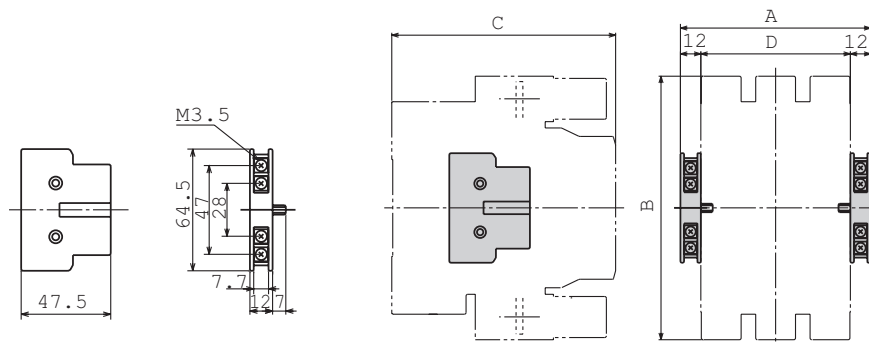


Mounted on left side



SZ-AS2T for SC-E5 to E7-xxx

Contactor with aux. contact block



Weight: 40 g

| Type      | A   | B   | C   | D   |
|-----------|-----|-----|-----|-----|
| SC-E5-xxx | 112 | 155 | 132 | 88  |
| SC-E6-xxx | 124 | 169 | 138 | 100 |
| SC-E7-xxx | 139 | 175 | 140 | 115 |

1 N.O. + 1 N.C.

Mounted on right



Mounted on left side

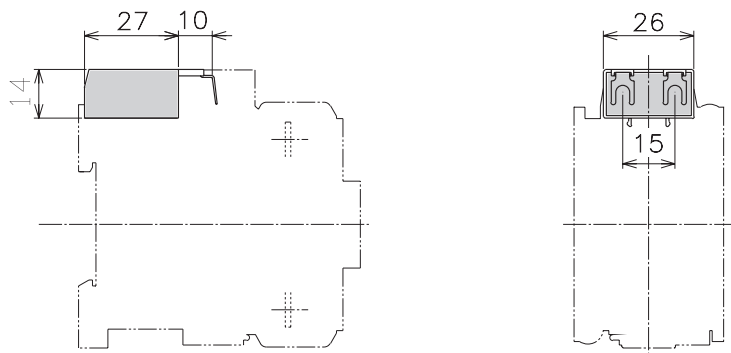


# Fuji Duo Series SC-E Contactors

## Dimensions (mm)

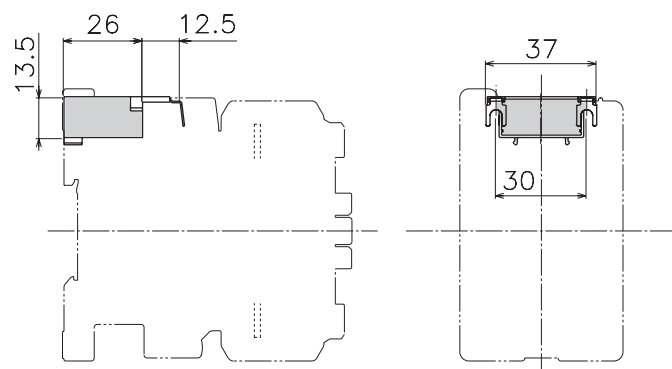
Coil surge suppression units

### SZ-Z1, Z2, Z4, Z5

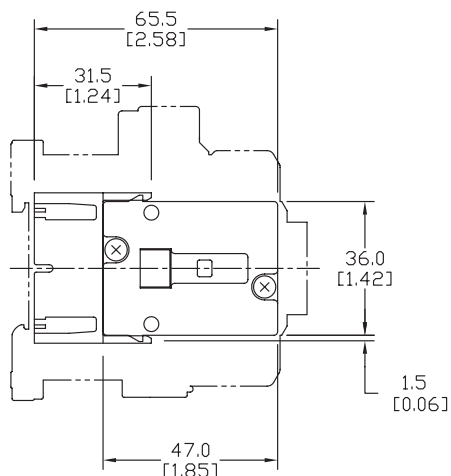


Weight: 14g

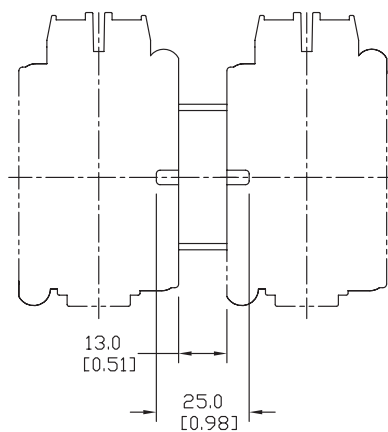
### SZ-Z31, Z32, Z34, Z35, Z36, Z36, Z37



Weight: 15g



### SZ-RM



## Wiring Diagrams

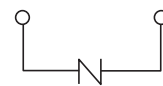
SC-E02 to E05-xxx + SZ-Z  
(Built-in varistor)



SC-E02 to E05-xxx + SZ-Z  
(Built-in capacitor/resistor)



SC-E1 to E4-xxx + SZ-Z1, Z1  
(Built-in varistor)



SC-E1 to E4-xxx + SZ-Z4, Z35  
(Built-in capacitor/resistor)

SC-E1G to E4G-xxx + SZ-Z6, Z  
(Built-in capacitor/resistor)

