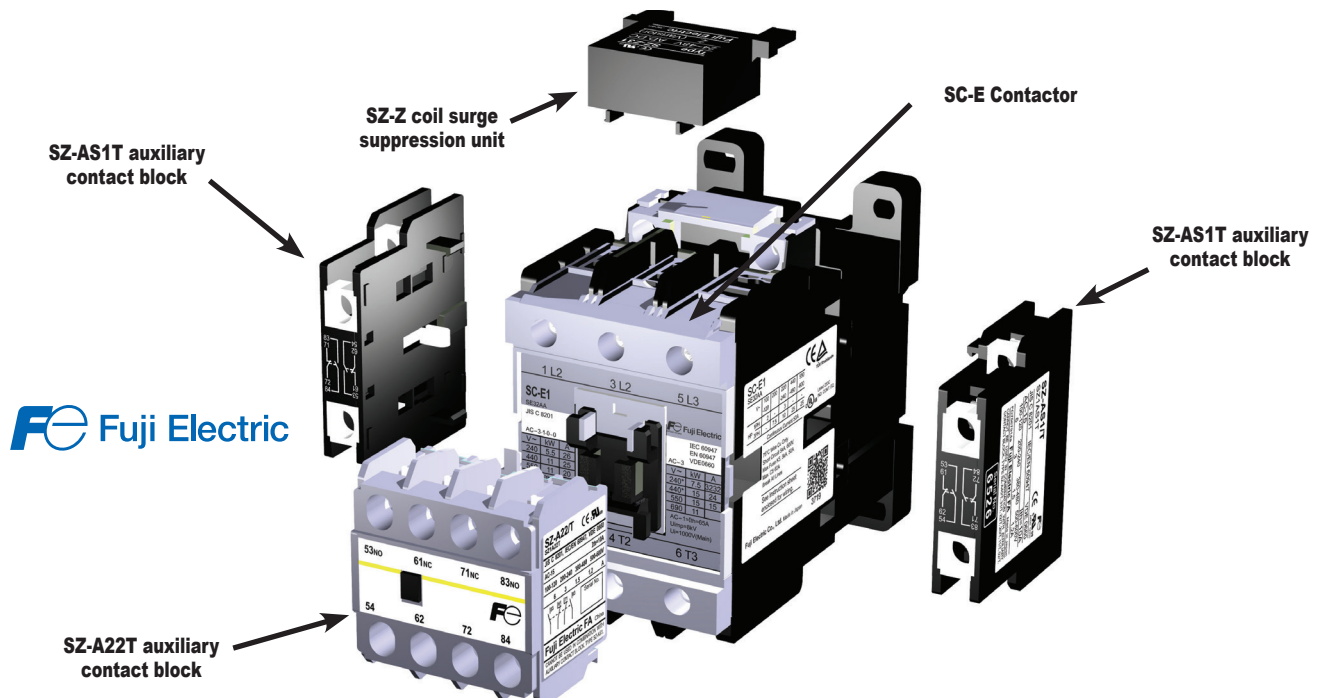


# Fuji Duo Series SC-E Contactors

## 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>		SC-E02(G)-xxx to E4(G)-xxx	Front mounting	4	2 N.O.+2 N.C.
<a href="#"><u>SZ-A20T</u></a>				2	2 N.O.
<a href="#"><u>SZ-A11T</u></a>				2	1 N.O. + 1 N.C.
<a href="#"><u>SZ-AS1T</u></a>		SC-E02(G)-xxx to E4(G)-xxx	Side mounting	2	1 N.O. + 1 N.C.
<a href="#"><u>SZ-AS2T</u></a>				2	1 N.O. + 1 N.C.

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
<b>A600</b>	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	5 VDC, 3 mA
	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**



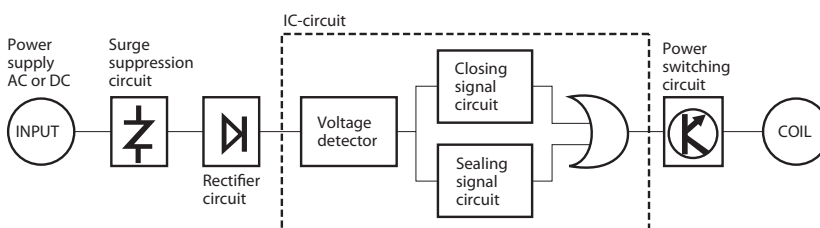
**SZ-Z37**

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

*Important: When driving 24 VDC 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>		SC-E02-xxx to E05-xxx	SC-E02G-xxx to E05G-xxx	24-48 VAC/VDC	varistor
<b>SZ-Z2</b>				100-250 VAC/VDC	
<b>SZ-Z31</b>		SC-E1-xxx to -E4xxx	SC-E1G-xxx to E4G-xxx	24-48 VAC/VDC	
<b>SZ-Z32</b>				100-250 VAC/VDC	
<b>SZ-Z4</b>		SC-E02-xxx to E05-xxx	SC-E02G-xxx to E05G-xxx	24-48 VAC/VDC	capacitor / resistor
<b>SZ-Z5</b>				100-250 VAC/VDC	
<b>SZ-Z34</b>		SC-E1-xxx to E4-xxx	-	24-48 VAC/VDC	
<b>SZ-Z35</b>				100-250 VAC/VDC	
<b>SZ-Z36</b>				24-48 VAC/VDC	
<b>SZ-Z37</b>				100-250 VAC/VDC	
<b>SC-E02 to E05</b>				380-440 VAC/VDC	
<b>SC-E1 to E4</b>				380-440 VAC/VDC	

*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
<a href="#">SZ-ERW1A</a>		Line side reversing connection kit.	SC-E02-xxx to SC-E05-xxx
<a href="#">SZ-ERW1B*</a>		Load side reversing connection kit. For wiring load side when using contactors only or with a MMS device.	
<a href="#">SZ-ERW1D</a>		Load side reversing connection kit. For wiring load side when using two contactors with a thermal overload relay.	
<a href="#">SZ-ERW2A</a>		Line side reversing connection kit.	SC-E1-xxx to SC-E2S-xxx
<a href="#">SZ-ERW2B*</a>		Load side reversing connection kit. For wiring load side when using contactors only or with a MMS device.	
<a href="#">SZ-ERW2D</a>		Load side reversing connection kit. For wiring load side when using two contactors with a thermal overload relay.	
<a href="#">SZ-ERW3A</a>		Line side reversing connection kit.	SC-E3-xxx to SC-E4-xxx
<a href="#">SZ-ERW3B*</a>		Load side reversing connection kit. For wiring load side when using contactors only or with a MMS device.	
<a href="#">SZ-ERW3D</a>		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
<a href="#">SZ-RM</a>		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)

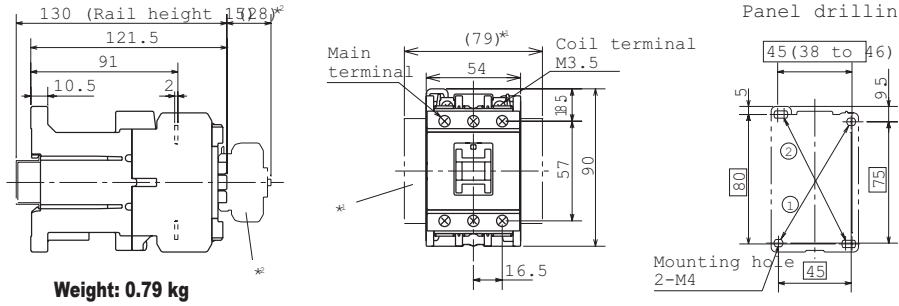


# Fuji Duo Series SC-E Contactors

## Dimensions [mm]

### Contactors

SC-E1G,E2G,E2SG-xxx



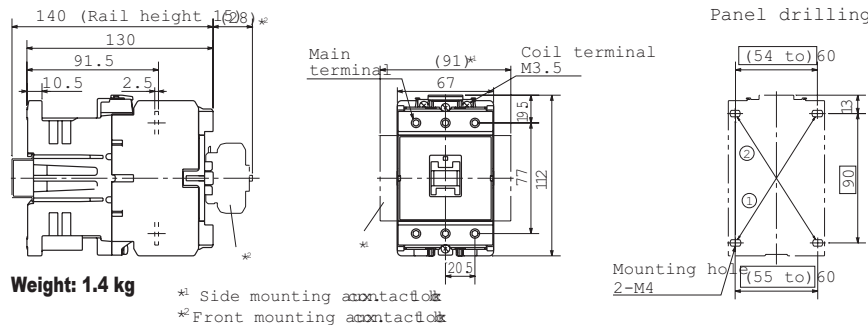
Weight: 0.79 kg

\*1 Side mounting contactor  
\*2 Front mounting contactor

Use the mounting holes on a diagonal line  
① ② to mount contactor  
① 45× 75 ②:45 (38 to 46) 80



SC-E3G,E4G-xxx



Weight: 1.4 kg

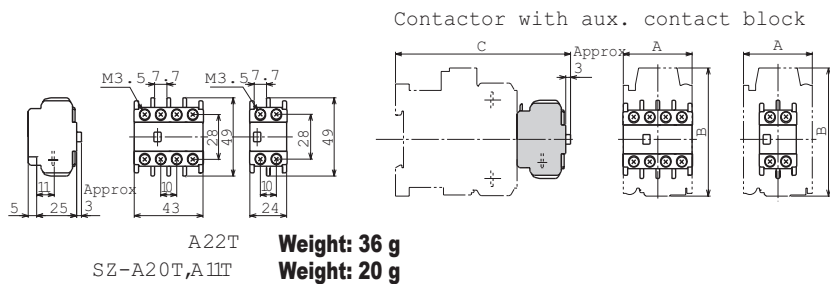
\*1 Side mounting contactor  
\*2 Front mounting contactor

Use the mounting holes on a diagonal line  
① ② to mount contactor  
① 55 (to) 80 ②: (54 to) 60 90

## Dimensions [mm]

### Auxiliary contact blocks - front mounting

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



A22T

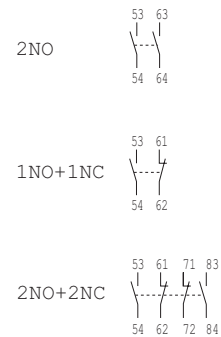
Weight: 36 g

SZ-A20T,A11T

Weight: 20 g

## Wiring Diagrams

SZ-A22T, A20T, A11T



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

# Fuji Duo Series SC-E Contactors

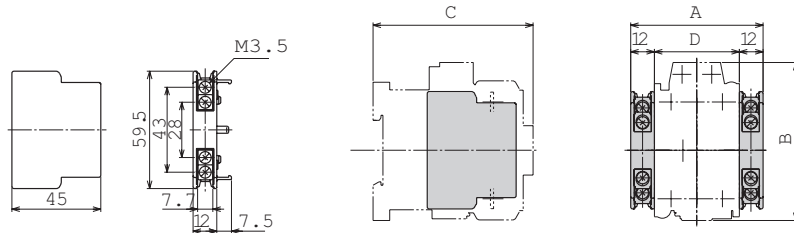
## Dimensions (mm)

Auxiliary contact blocks - side mounting

## Wiring Diagrams

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

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

1 N.O. + 1 N.C.

Mounted on right

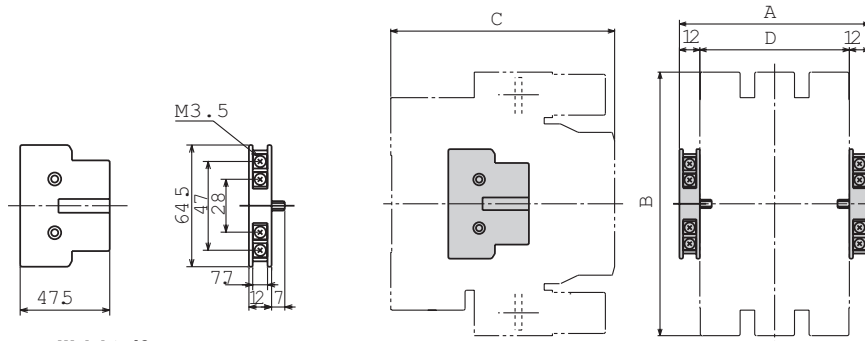


Mounted on left



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	168	138	100
SC-E7-xxx	139	175	140	115

1 N.O. + 1 N.C.

Mounted on right



Mounted on left :

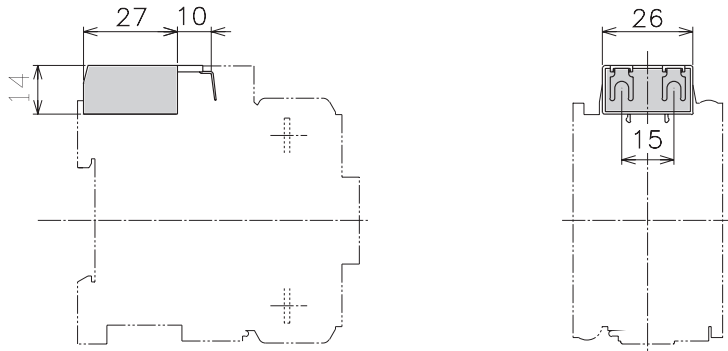


# Fuji Duo Series SC-E Contactors

## Dimensions (mm)

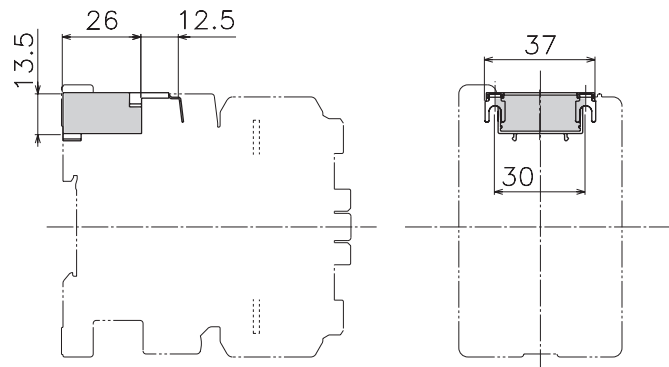
Coil surge suppression units

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

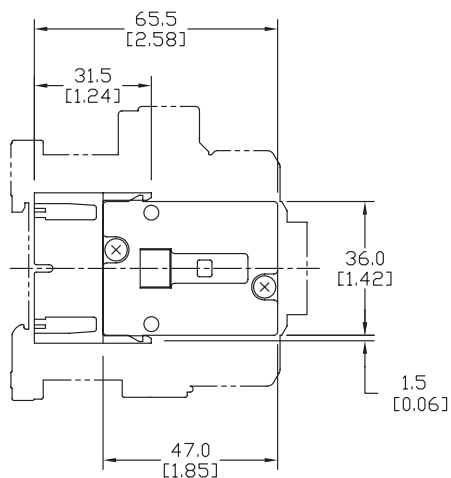


Weight: 14g

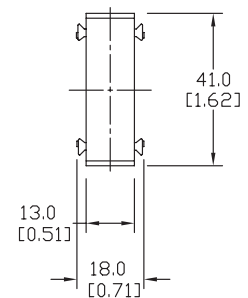
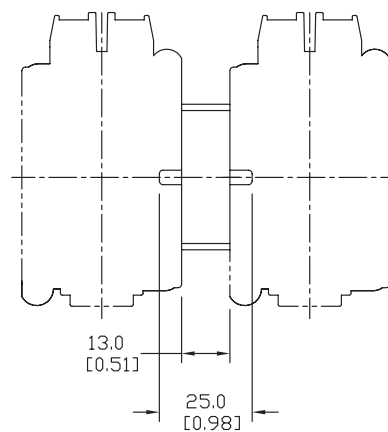
### SZ-Z31, Z32, Z34, Z35, Z36, Z36, Z37



Weight: 15g

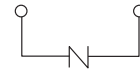


### SZ-RM

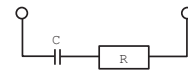


## Wiring Diagrams

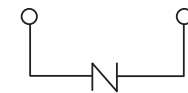
SC-E02 to E05-xxx + SZ-Z1, Z2  
(Built-in varistor)



SC-E02 to E05-xxx + SZ-Z4, Z5  
(Built-in capacitor/resistor)



SC-E1 to E4-xxx + SZ-Z31, Z32  
(Built-in varistor)



SC-E1 to E4-xxx + SZ-Z34, Z35  
(Built-in capacitor/resistor)

SC-E1G to E4G-xxx + SZ-Z36, Z37  
(Built-in capacitor/resistor)

