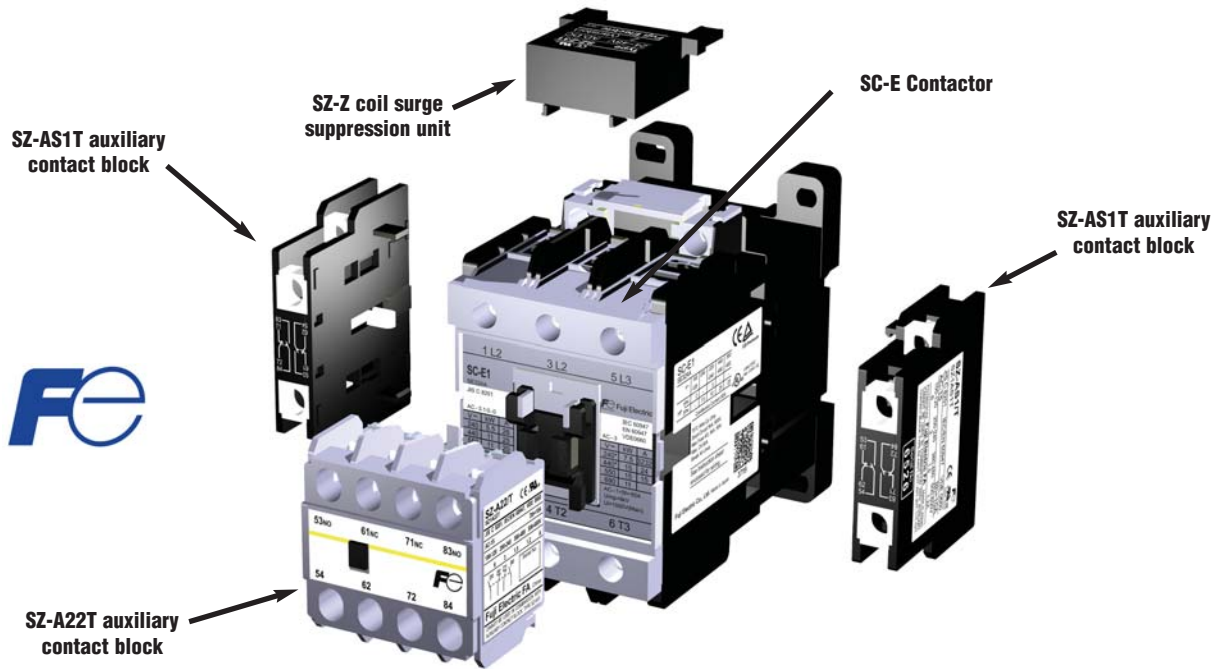


Fuji Duo Series SC-E Contactors Accessories

Optional accessories



Auxiliary contact blocks with terminal covers

The front mounting auxiliary contact block allows two or four auxiliary contacts to be added without increasing the mounting area of the magnetic contactors. The side mounting auxiliary contact block allows two auxiliary contacts to be added to the magnetic contactors without increasing the depth.



SZ-A22T



SZ-A11T



SZ-AS1T



SZ-AS2T

Auxiliary Contact Blocks with Terminal Covers					
Part Number	Applicable Contactor	Mounting	Number of Contacts	Contact Arrangement	
SZ-A22T	SC-E02(G)-xxx to E4(G)-xxx	Front mounting	4	2NO + 2NC	
SZ-A20T			2	2NO	
SZ-A11T			2	1NO + 1NC	
SZ-AS1T	SC-E02(G)-xxx to E4(G)-xxx	Side mounting	2	1NO + 1NC	
SZ-AS2T			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: NEMA ICS 5-2000. For more information, refer to Control Circuit Contact Electrical Ratings, page 16-75

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.

NOTE: Required for motor starter or contactor applications involving PLC output control. SC-E5 contactors do not require surge suppression.

Coil Surge Suppression Units				
Part Number	Applicable Contactor		Operating Coil Voltage	Device
	AC Operated	DC Operated		
SZ-Z1	SC-E02-xxx to E05-xxx	SC-E02G-xxx to E05G-xxx	24-48V AC/DC	Varistor
SZ-Z2			100-250V AC/DC	
SZ-Z31	SC-E1-xxx to -E4xxx	SC-E1G-xxx to E4G-xxx	24-48V AC/DC	
SZ-Z32			100-250V AC/DC	
SZ-Z4	SC-E02-xxx to E05-xxx	SC-E02G-xxx to E05G-xxx	24-48V AC/DC	capacitor / resistor
SZ-Z5			100-250V AC/DC	
SZ-Z34	SC-E1-xxx to E4-xxx	-	24-48V AC/DC	
SZ-Z35			100-250V AC/DC	
SZ-Z36			24-48V AC/DC	
SZ-Z37	-	SC-E1G-xxx to E4G-xxx	100-250V AC/DC	

Replacement contactor coils



SZ-GSN5-100

SC-E Series Replacement Contactor Coils			
Part Number		Applicable Contactor	Coil Voltage
SZ-GSN5-100		SC-E5-xxx	100-127VAC 50/60Hz / 100-120VDC
SZ-GSN6-100		SC-E6-xxx, SC-E7-xxx	100-127VAC 50/60Hz / 100-120VDC
SZ-GSN5-200		SC-E5-xxx	200-250VAC 50/60Hz / 200-240VDC
SZ-GSN6-200		SC-E6-xxx, SC-E7-xxx	200-250VAC 50/60Hz / 200-240VDC
SZ-GSN5-24		SC-E5-xxx	24-25VAC / 50/60Hz / 24VDC
SZ-GSN6-24		SC-E6-xxx, SC-E7-xxx	24-25VAC / 50/60Hz / 24VDC

Note: Replacement coils are available for contactor sizes SC-E5 and larger only.

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	Description	Use with Contactors	
SZ-ERW1A	Line side reversing connection kit.	SC-E02-xxx to SC-E05-xxx	
SZ-ERW1B*	Load side reversing connection kit. For wiring load side when using contactors only or with a MMS device.		
SZ-ERW1D	Load side reversing connection kit. For wiring load side when using two contactors with a thermal overload relay.		
SZ-ERW2A	Line side reversing connection kit.	SC-E1-xxx to SC-E2S-xxx	
SZ-ERW2B*	Load side reversing connection kit. For wiring load side when using contactors only or with a MMS device.		
SZ-ERW2D	Load side reversing connection kit. For wiring load side when using two contactors with a thermal overload relay.		
SZ-ERW3A	Line side reversing connection kit.	SC-E3-xxx to SC-E4-xxx	
SZ-ERW3B*	Load side reversing connection kit. For wiring load side when using contactors only or with a MMS device.		
SZ-ERW3D	Load side reversing connection kit. For wiring load side when using two contactors with a thermal overload relay.		

Mechanical interlock unit



SZ-RM

Mechanical Interlock Unit			
Part Number	Description	Use with Contactors	
SZ-RM	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)



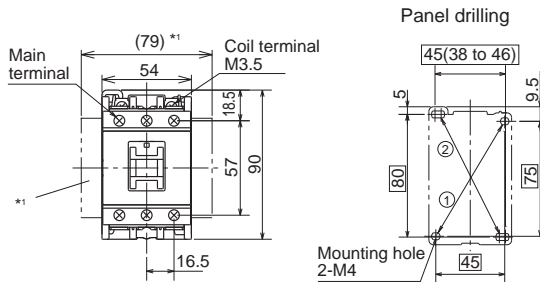
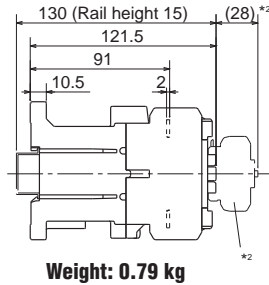
* When using the SZ-ERWxB, a TK-E thermal overload relay must be separately mounted and wired using an SZ-HxE base. To assemble a TK-E overload directly to the contactor use a SZ-ERWxD load side connection kit.

Fuji Duo Series SC-E Contactors

Dimensions (mm)

Contactors

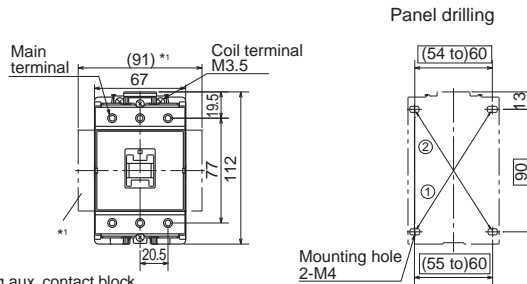
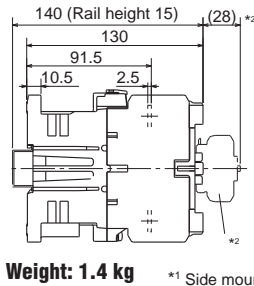
SC-E1G, E2G, E2SG-xxx



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

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

SC-E3G, E4G-xxx



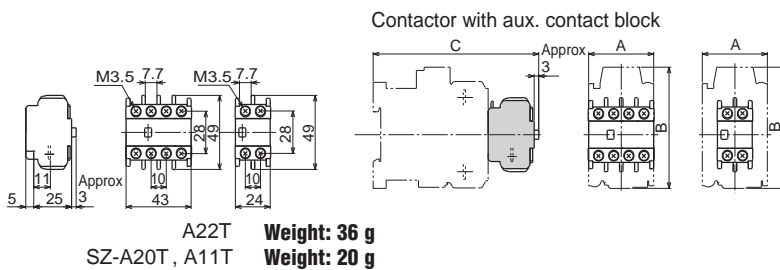
*1 Side mounting aux. contact block
*2 Front mounting aux. contact block

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

Dimensions-mm

Auxiliary contact blocks - front mounting

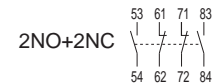
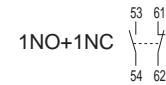
SZ-A22T, A20T, A11T for SC-E02 (G)-xxx to E4 (G)-xxx



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

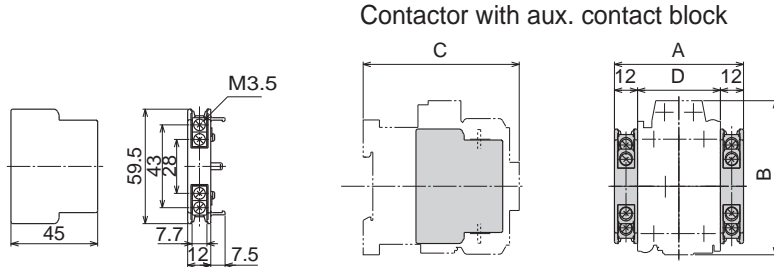


Fuji Duo Series SC-E Contactors

Dimensions (mm)

Auxiliary contact blocks - side mounting

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



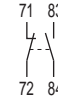
Weight: 28 g

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 side

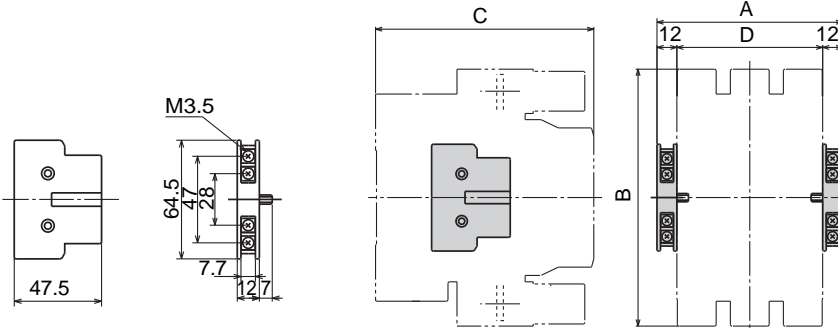


Mounted on left side



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 side



Mounted on left side

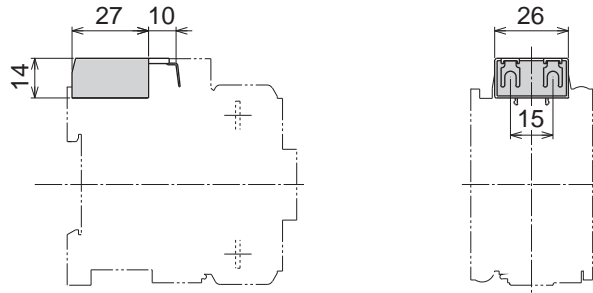


Fuji Duo Series SC-E Contactors

Dimensions (mm)

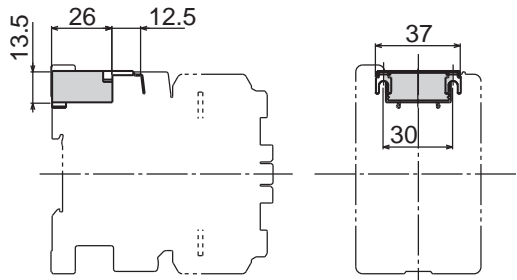
Coil surge suppression units

SZ-Z1, Z2, Z4, Z5



Weight: 14 g

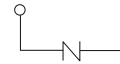
SZ-Z31, Z32, Z34, Z35, Z36, Z37



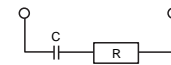
Weight: 15 g

Wiring diagrams

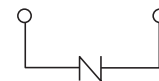
SC-E02 to E05-xxx + SZ-Z1, Z2
(Built-in varistor)



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)

