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







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-ES	eries C	ontacto	rs Spec	ification	is - UL a	and CSA					
					Rated Cap	acity (HP)			ı,	70 70			
			3-Phase Motor				1-Phase Motor		irren 1	erma ote 2	gs	tion (
Part Number Pi		Nominal Price Coil Voltage		220 to 240V	440 to 480V	550 to 600V	100 to 120V	220 to 240V	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)
SC-E02P-24VAC	\$26.50	24VAC											
SC-E02P-110VAC	\$26.50	110VAC										690	
SC-E02P-220VAC	\$26.50	220VAC	2	,	_	5	1/3	1	9	20			
SC-E02P-440VAC	\$26.50	440-480VAC	2		2 5					20			
SC-E02P-500VAC	\$26.50	500-550VAC											
SC-E02PG-24VDC	\$30.50	24VDC											
SC-E03P-24VAC	\$33.50	24VAC											
SC-E03P-110VAC	\$33.50	110VAC											
SC-E03P-220VAC	\$33.50	220VAC	3	3	7.5	7.5	1/2	2	12	20			
SC-E03P-440VAC	\$33.50	440-480VAC											
SC-E03PG-24VDC	\$48.50	24VDC											
SC-E04P-24VAC	\$42.00	24VAC									5		43
SC-E04P-110VAC	\$42.00	110VAC											
SC-E04P-220VAC	\$42.00	220VAC	5	5	10	10	1	3	18	25			
SC-E04P-440VAC	\$42.00	440-480VAC	Э	5	10	10) 	10	25			
SC-E04P-500VAC	\$42.00	500-550VAC											
SC-E04PG-24VDC	\$59.00	24VDC											
SC-E05P-24VAC	\$54.00	24VAC											
SC-E05P-110VAC	\$54.00	110VAC											
SC-E05P-220VAC	\$54.00	220VAC	5	7.5	15	15	,	2	25	32			
SC-E05P-440VAC	\$54.00	440-480VAC	Э	7.5	15	15	2	3	25	32			
SC-E05P-500VAC	\$54.00	500-550VAC											
SC-E05PG-24VDC	\$69.00	24VDC											

TABLE CONTINUED NEXT PAGE

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 Fuji Electric



		SC-	E Series	Contact	ors Spe	cification	ıs - UL a	nd CSA					
					Rated Cap				ut	Ð		_	
				3-Phas	e Motor		1-Phas	e Motor	irre 17	1 int (ıgs	tion /)	
Model	Price	Nominal Coil Voltage	200V	220–240V	440–480V	550–600V	100-20V	220–240V	Rated AC-3 Current (A) [note 1]	Rated AC-1 Thermal Current (A) [note 2] SCCR Ratings (KA) Rated Insulation	Rated Insulation Voltage (V)	Frame Width (mm)	
SC-E1-24VAC	\$72.00	24VAC											
SC-E1-110VAC	\$72.00	110VAC											
SC-E1-220VAC	\$72.00	220VAC	7.5	40	0.5	0.5	05		00	50			
SC-E1-440VAC	\$72.00	440-480VAC	7.5	10	25	25	2	3	32	50			
SC-E1-500VAC	\$72.00	500-550VAC											
SC-E1G-24VDC	\$85.00	24VDC											
SC-E2-24VAC	\$102.00	24VAC											
SC-E2-110VAC	\$102.00	110VAC											
SC-E2-220VAC	\$102.00	220VAC	10	15	30	30	3	5	40	60			54
SC-E2-440VAC	\$102.00	440-480VAC											
SC-E2G-24VDC	\$124.00	24VDC											
SC-E2S-24VAC	\$124.00	24VAC											
SC-E2S-110VAC	\$124.00	110VAC											
SC-E2S-220VAC	\$124.00	220VAC											
SC-E2S-440VAC	\$124.00	440-480VAC	15	20	30	30	3	10	50	65	5		
SC-E2S-500VAC	\$124.00	500-550VAC											
SC-E2SG-24VDC	\$146.00	24VDC											
SC-E3-24VAC	\$140.00	24VAC											
SC-E3-110VAC	\$140.00	110VAC		25					65	100		690	
SC-E3-220VAC	\$140.00	220VAC	20		50	50	5	15					
SC-E3-440VAC	\$140.00	440-480VAC	20		30	30	J	10					
SC-E3G-24VDC	\$171.00	24VDC											
SC-E4-24VAC	\$142.00	24VAC											67
SC-E4-110VAC	\$142.00	110VAC					50 5	15	80	105			07
	· ·	220VAC											
SC-E4-220VAC	\$142.00	440-480VAC	25	30	50	50							
SC-E4-440VAC	\$142.00												
SC-E4-500VAC	\$142.00	500-550VAC											
SC-E4G-24VDC	\$177.00	24VDC											
SC-E5-24V	\$356.00	24VAC/VDC											
SC-E5-100V	\$356.00	110VAC/VDC	20	20	00	7-	7.5	45	405	450	40		00
SC-E5-200V	\$356.00	220VAC/VDC	30	30	60	75	7.5	15	105	150	10		88
SC-E5-400V	\$356.00	380-450VAC											
SC-E5-500V	\$356.00	460-575VAC											
SC-E6-24V	\$457.00	24VAC/VDC											
SC-E6-100V	\$457.00	110VAC/VDC	40	40	75	100	10	20	125	150	10		100
SC-E6-200V	\$457.00	220VAC/VDC											100
SC-E6-500V	\$457.00	460-575VAC											
<u>SC-E7-24V</u>	\$531.00	24VAC/VDC											
<u>SC-E7-100V</u>	\$531.00	110VAC/VDC											
<u>SC-E7-200V</u>	\$531.00	220VAC/VDC	50	50	100	125	15	15 25	150	200	10		115
SC-E7-400V	\$531.00	380-450VAC											
SC-E7-500V	\$531.00	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.)

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Fuji Duo Series SC-E Contactors Fuji Electric



			SC	C-E Seri	es Cor	tactors	Specif	ications	- IEC				
		Rated Capa	acity (kW)			Ra	ated Operati		Rated	Laterana I A. Cillana			
Contactor Type	3-	Phase Moto	r AC-3 / AC	:-4	3	-Phase Mot	or AC-3 / AC	:-4	Resistive L	oad AC-1	Thermal	Internal Auxilliary Contact	
Comactor Type	200-240V	380-440V	500- 550V	600-690V	200- 240V	380-440V	500-550V	600-690V	200-240V	380-440V	Current (A)	Arrangement	
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	60/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									
- Rated	Rated	NEMA ICS 5-2000 Ratings (note 2)							
Frame Size (note 1)	Insulation		AC Ratings	DC Ratings					
(note 1)	Voltage (V)	Designation	Making VA	Breaking VA	Designation	Making/Breaking VA			
E5 to E7-xxx	690	A600	7200	720	Q300	69			

- 1. E02(G) to E4(G) do not have internal auxiliary contact.
- 2. 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 Rated		Rated Thermal	Making and I Capacity				Minimum Operating			
(note 1)	Insulation Voltage (V)	Current (A)	AC Voltage	Amps	AC Voltage	AC-15 (Ind. load)	DC Voltage	DC-13 (Ind. load)	Voltage and Current	
			120V	60	120V	6	24V	3	5)/D0 0 4	
E5 to E7-xxx	E5 to E7-xxx 690	10	220V	30	220V	3	48V	1.5		
E3 10 E7-XXX 090	10	440V	15	440V	1.5	110V	0.55	5VDC, 3mA		
		600V	12	600V	1.2	220V	0.27			

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

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Coil Characteristics

	AC Coil Characteristics												
	Power Const	umption (VA)	Power L	.oss (W)			Operating Time (ms)						
Frame Size	Inrush	Sealed	50Hz	60Hz	Pick-Up Voltage (V)	Drop-Out Voltage (V)	Coil ON to	Coil OFF to					
	50/60Hz	50/60Hz	DUNZ	OUTIZ			Contact ON	Contact OFF					
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									
	Power Consum				Operating Time (ms)					
Frame Size	Inrush	Sealed	Pick-Up Voltage (V)	Drop-Out Voltage (V)	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								
24V	24-25VAC 50/60Hz; 24VDC							
100V	100-127VAC 50/60Hz; 100-120VDC							
200V	200-250VAC 50/60Hz; 200-240VDC							
400V	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 24VDC						
24400	24400						

Performance Data

Frame size	Making cu	urrent (A)	Breaking of	current (A)	Operating cycles	Durability (ope	erations)
	220V	440V	220V	440V	per hour	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

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Standard operating conditions

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



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.

	Standard Operating Conditions						
Ambient Temperature	Operating: -5 to 55°C [23 to 131°F] No sudden temperature changes resulting in condensation or icing (The average temperature over a 24-hour period must not exceed 35°C [95°F) Storage: -40 to 65°C [-40 to 149°F]						
Humidity	45 to 85%RH						
Altitude	2000m or lower						
Atmosphere	No excessive dust, smoke, corrosive gases, flammable gases, steam, or salt						
Vibration	10 to 55Hz 15m/s ²						
Shock	50m/s ²						
Mounting	35mm IEC DIN rail mounting (SC-E02 to SC-E4), screw mounting						
Mounting Angle	30 30.						
Standard	IEC 947-4-1, EN 60947-4-1, VDE 0660 JIS C 8201-4-1, JEM 1038 UL 508, file E42419; CSA C22.2, file 20479						

Wire Sizes, Ti	ghtenin	g Torques - Control Circuit	
Solid or Stranded Wire (mm²)	One	0.75 to 2.5 (1 to 1.6 mm diameter)	
Solid or Stranded Wire (min-)	Two	0.75 to 2.5 (1 to 1.6 mm diameter)	
Stranded Wire	mm [in]	0.75 to 2.5 [0.03 to 0.10]	
Flexible Stranded Wire	AWG	18 to 14	
Ring Terminal [SC-E0x(P) only] mm [in]		7.7 [0.30]	
AWG	One	18 to 14	
Two		18 to 14	
Insulation Stripping Length		10 mm 0.39 in	
Fork Terminal		Max. 7.7mm wide	
Terminal Screw Size		M3.5	
Tool		Phillips screwdriver, H-type, No. 2 (ISO 8764); ADC part number TW-SD-VPH-1 or TW-SD-VPH-2	
1001		Flat-blade screwdriver, 1 x 5.5 x L-type, B (ISO 2830); ADC part number TW-SD-VSL-4	
Tightening Torque (N.m)		0.8 to 1	

Wire Sizes, Tig	Wire Sizes, Tightening Torques - Main Circuit							
Contactor Type	Contactor Type		SC-E03-xxx	SC-E04-xxx	SC-E05-xxx			
Solid Wire (mm²)	One	0.75	to 4	0.75	to 6			
Solid Wife (IIIIII)	Two	1 to	o 4	1.5	to 6			
Stranded Wire (mm²)	mm [in]		0.75 to 10 [0	0.03 to 0.39]				
Flexible Stranded Wire	AWG		18 t	o 8				
Ring Terminal [SC-E0x(P) only]	N	Maximum 9.7 mm [0.38 in] wide						
AWG	One	12 maximum		10 maximum				
AWG	Two	12 maximum		10 maximum				
Insulation Stripping Length		11 mm 0.43 in						
Terminal Screw Size		M4						
Tool		Phillips screwdriver, H-type, No. 2 (ISO 8764); 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); ADC part number TW-SD-VSL-4						
Tightening Torque (N.m)		1.2 to 1.5						

Wire Sizes, Tightening Torques - Main Circuit							
Contactor Type			SC-E1, E2, E2S-xxx	SC-E3, E4-xxx	SC-E5, E6-xxx	SC-E7-xxx	
	Solid or stranded wire (mm²) 1	0.75 to 35	1.5 to 70	4 to 70	4 to 120		
	Flexible stranded wire with sleeve (mm²) 1	0.75 to 25	1.5 to 50	2.5 to 50	2.5 to 95		
Top-Only Connection	Flexible stranded wire without sleeve (mm²)		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	
	Single stranded wire (mm ²) ¹		0.75 to 25	1.5 to 50	4 to 70	4 to 120	
	Flexible stranded wire with sleeve (mm²) 1		0.75 to 16	1.5 to 35	2.5 to 50	2.5 to 95	
Bottom-Only Connection	Flexible stranded wire without sleeve (mm²)	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	
	Solid or stranded wire (mm²) 1	Top/bottom	0.75 to 25	1.5 to 50	4 to 70	4 to 120	
Top/Bottom	Flexible stranded wire with sleeve (mm²) 1	Top/bottom	0.75 to 16	1.5 to 35	2.5 to 50	2.5 to 95	
Connection	Flexible stranded wire without sleeve (mm²)	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); ADC part number DN-SP1 or DN-SP2 Flat-blade screwdriver, 1 x 5,	He	Hex. wrench 4 (ISO 2936)			
			5xL- type, B (ISO 2830); ADC part number DN-SS5				
Tightening Tol	,		2.5	1	8	10	
Self-locking To	orque (N•m)²		1		2		

Note 1: Stranded wire (0 to 25mm²) consists of 7 wires or less.

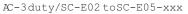
Stranded wire (35 to 120mm²) consists of 19 wires or less.

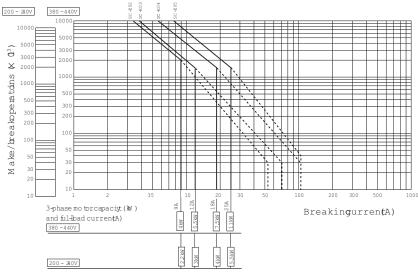
Flexible stranded wire consists of more number wires than the above.

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.

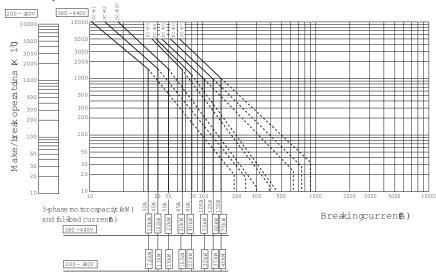
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Electrical durability

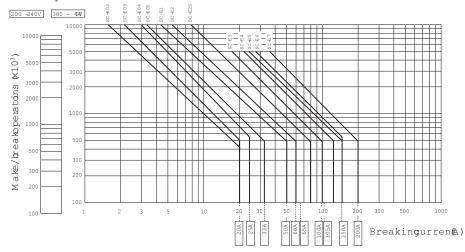




AC-3 duty/SC-E1 toSC-E7-xxx



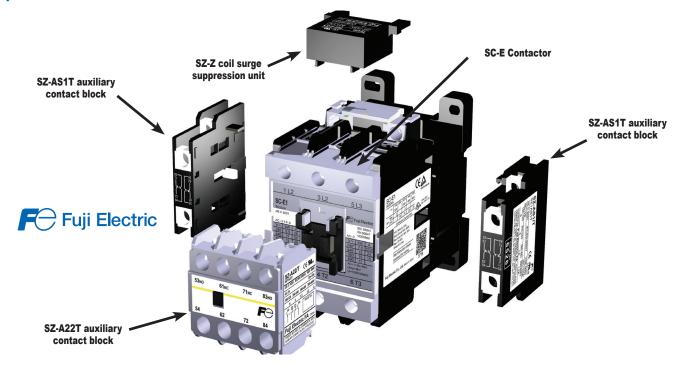
AC-1 duty/SC-E02 toSC-E7-xxx



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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

Caution on use:

- 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			
SZ-A22T	\$25.00			4	2NO + 2NC			
SZ-A20T	\$16.50	SC-E02(G)-xxx to E4(G)-xxx	Front mounting	2	2NO			
SZ-A11T	\$16.50				1NO + 1NC			
SZ-AS1T	\$25.00	SC-E02(G)-xxx to E4(G)-xxx		2	1NO + 1NC			
SZ-AS2T	\$25.00	SC-E5, E6, E7-xxx, SC-N4, N5, N6, N7, N8, N10, N11, N12, SC-E5(G)-xxx to E7(G)-xxx	Side mounting	2	1NO + 1NC			

Accessory Auxiliary Contact Ratings - UL and CSA						
NEMA ICS 5-2000 Ratings (note 1)						
AC Ratings	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	Makin	g and		Minimum				
Thermal			A	AC DC				
Current (A)			Voltage	AC-15 (Ind. load)	Voltage	DC-13 (Ind. load)	Current	
	120V	60	120V	6	24V	3		
10	220V	30	220V	3	48V	1.5	5\/DC 2A	
10	440V	15	440V	1.5	110V	0.55	5VDC, 3mA	
	600V	12	600V	1.2	220V	0.27		

Coil surge suppression units





SZ-Z1

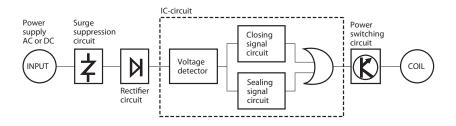
SZ-Z37

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 <u>Automationdirect.com/technotes</u>.

Coil Surge Suppression Units							
Dort Number	Price	Applicable	Contactor	Operating Coil	Device		
Part Number	Pilice	AC Operated	DC Operated	Voltage	Device		
<u>SZ-Z1</u>	\$20.00	CC FO2 year to FOE year	SC-E02G-xxx to	24-48V AC/DC			
SZ-Z2	\$20.00	SC-E02-xxx to E05-xxx	E05G-xxx	100-250V AC/DC	intor		
SZ-Z31	\$22.00	SC-E1-xxx to -E4xxx	SC-E1G-xxx to	24-48V AC/DC	varistor		
SZ-Z32	\$22.00	30-E 1-XXX (0 -E4XXX	E4G-xxx	100-250V AC/DC			
SZ-Z4	\$18.50	CC F00 to F0F	SC-E02G-xxx to	24-48V AC/DC			
SZ-Z5	\$22.00	SC-E02-xxx to E05-xxx	E05G-xxx	100-250V AC/DC			
SZ-Z34	\$22.00	CO E4 to E4		24-48V AC/DC	capacitor /		
SZ-Z35	\$22.00	SC-E1-xxx to E4-xxx	-	100-250V AC/DC	resistor		
SZ-Z36	\$22.00		SC-E1G-xxx to	24-48V AC/DC			
SZ-Z37	\$22.00	-	E4G-xxx	100-250V AC/DC			
SC-E02 to E05				380-440V AC/DC			
SC-E1 to E4				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



	Connection Kits							
Part Number	Price	Description	Use with Contactors					
SZ-ERW1A	\$10.00	Line side reversing connection kit.						
SZ-ERW1B*	\$10.00	Load side reversing connection kit. For wiring load side when using contactors only or with a MMS device.	SC-E02-xxx to SC-E05-xxx					
SZ-ERW1D	\$10.00	Load side reversing connection kit. For wiring load side when using two contactors with a thermal overload relay.						
SZ-ERW2A	\$20.00	Line side reversing connection kit.						
SZ-ERW2B*	\$20.00	Load side reversing connection kit. For wiring load side when using contactors only or with a MMS device.	SC-E1-xxx to SC-E2S-xxx					
SZ-ERW2D	\$20.00	Load side reversing connection kit. For wiring load side when using two contactors with a thermal overload relay.						
SZ-ERW3A	\$35.50	Line side reversing connection kit.						
SZ-ERW3B*	\$35.50	Load side reversing connection kit. For wiring load side when using contactors only or with a MMS device.	SC-E3-xxx to SC-E4-xxx					
SZ-ERW3D	\$35.50	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



Mechanical Interlock Unit						
Part Number	Price	Description	Use with Contactors			
SZ-RM	\$21.00	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.

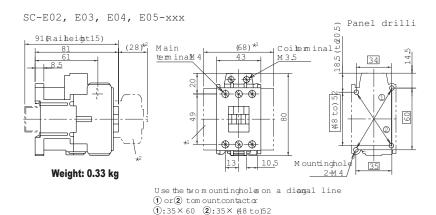
Parts for reversing Fuji SC-E contactors

- 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)

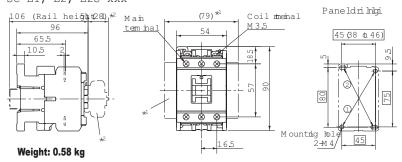


Dimensions (mm)

Contactors

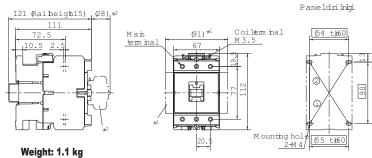


SC-E1, E2, E2S-xxx



Use thewomounting holes on adiagonal nei ① or② om buntcontætor ①:45×75 ②:45 38 & 46)×80

SC-E3, E4-xxx



Use he wo mounting hole on a diagonallie (1) r(2) mountcontactor (1):65 tb60×90 (2):64 tb60×90

Wiring diagrams

Contactors

*1 Incaseofaux.contac2NO+ 2NC

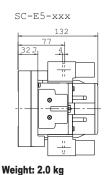
SC-E5, E6, E7-xxx

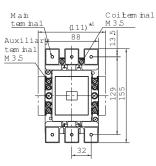


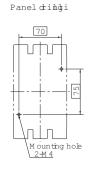
*1 Incaseofaux.contac4NO+4NC

Dimensions (mm)

Contactors



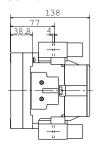


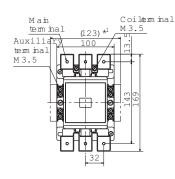


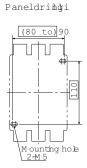


- $^{\star l}$ Side mounting aux.contactblock
 - *2 Frontm ounting aux.contactbbck

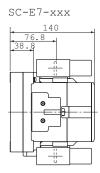
SC-E6-xxx



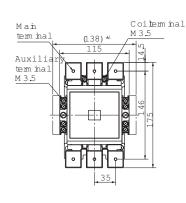


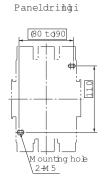


Weight: 2.6 kg

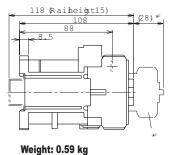


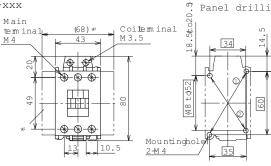
Weight: 2.9 kg





SC-E02G, E03G, E04G, E05G-xxx



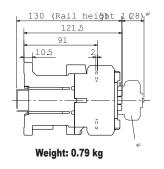


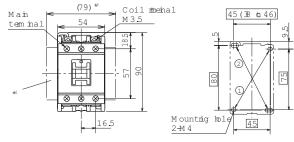
Use the two mountingholes on a diamgal line ① or ② tom ountcontactor ① 35×60 ②:35× (48 to) 52

Dimensions [mm]

Contactors

SC-E1G, E2G, E2SG-xxx



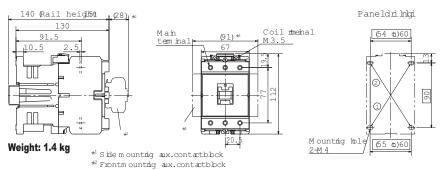


Paneldri Inlgi

F Fuji Electric

- $^{\star 1}\; \text{Side}\; \text{m}\; \text{ounting}\;\; \text{aux.contactbbck}$
- *2 Frontmounting aux.contactbbck
- Use theworm ounting holes on adiagonal nlei
- ① or② ombuntcontactor ①:45×75 ②:45 (8 & 46)×80

SC-E3G, E4G-xxx

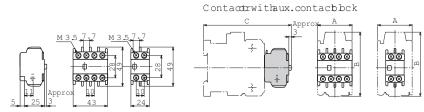


- Use thew \oplus m ountrig holes on adiagonal nhei (1) or (2) om \oplus buntcontactor
- ①: (55 b) 60×90 ②: (54 b) 60×90

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

Туре	А	В	С
SC ±02,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

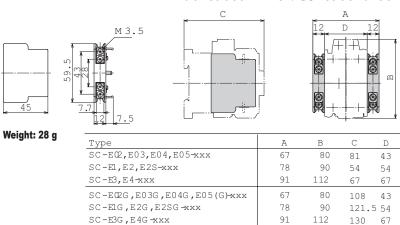
SZ-A22T, A20T, A11T

Dimensions (mm)

Auxiliary contact blocks - side mounting

SZ-AS1T for SC-E02(G)-xxx to 聚化(G)-

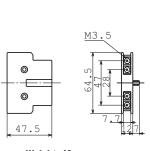
Contactor with. auntact block



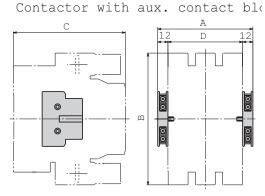
Wiring Diagrams

Mounted oneff sid $\begin{matrix} 53 & 61 \\ \downarrow & \downarrow \\ & \ddots & \\ & 54 & 62 \end{matrix}$

SZ-AS2T for SŒ5 to E7-xxx



Weight: 40 g



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

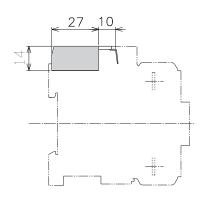
1 N.O. + 1 N.C. Mounted on right $\begin{bmatrix} 71 & 83 \\ 7 & 4 \end{bmatrix}$

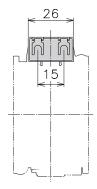
Mounted onleft side

Dimensions (mm)

Coil surge suppression units

SZ-Z1, Z2, Z4, Z5





Wiring Diagrams

SC-E02 to E05-xxx + SZ-Z (Buildinvarisor)

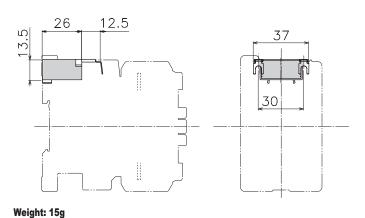


SC-E02 to E05-xxx + $\mathbb{Z}/2$, (Built-in capacitor/resis



Weight: 14g

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



SC-E1 to E4-xxx +-3%1, Z: (Built-in varistor)



SC-E1 to E4-xxx +-**S2**4, Z35 (Built-in capacitor/resistor

SC-E1G to E4G-xxx + -\$Z36, Z (Built-in capacitor/resistor



31.5 [1.24] 36.0 [1.42]

47.0

[1.85]

