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	-E Ser	ies Conta	ctors	Spec	ificatio	ons - I	UL an	d CSA					
		Nom age		Ra	ated Cap	acity (F	IP)		Rate	Rated AC Thermal (A) [note 2]	SCC/ (KA)	Rate: Volta	Fram
Model (Each pair of part numbers represents direct replacements which may be ordered	Price	Nominal Coil Volt		3-Phase Motor			1-Phase Motor		Rated AC-3 Current (A)	Rated AC-1 Thermal Current (A) [note 2]	SCCR Ratings (KA)	Rated Insulation Voltage (V)	Frame Width (mm)
interchangeably)		il Volt-	200V	220 to 240V	440 to 480V	550 to 600V	100 to 120V	220 to 240V	[note 1]	rent	gs	ation	(mm)
SC-E02-24VAC or SC-E02P-24VAC	<>	24VAC											
SC-E02-110VAC or SC-E02P-110VAC	<>	110VAC											
SC-E02-220VAC or SC-E02P-220VAC	<>	220VAC	2	2	5	5	1/3	1	9	20			
SC-E02-440VAC or SC-E02P-440VAC	<>	440-480VAC			5	5	1/3	'	9	20			
SC-E02-500VAC or SC-E02P-500VAC	<>	500-550VAC											
SC-E02G-24VDC or SC-E02PG-24VDC	<>	24VDC											
SC-E03-24VAC or SC-E03P-24VAC	<>	24VAC											
SC-E03-110VAC or SC-E03P-110VAC	<>	110VAC											
SC-E03-220VAC or SC-E03P-220VAC	<>	220VAC	3	3	7.5	7.5	1/2	2	12	20			
SC-E03-440VAC or SC-E03P-440VAC	<>	440-480VAC											
SC-E03G-24VDC or SC-E03PG-24VDC	<>	24VDC											
SC-E04-24VAC or SC-E04P-24VAC	<>	24VAC									5	690	43
SC-E04-110VAC or SC-E04P-110VAC	<>	110VAC											
SC-E04-220VAC or SC-E04P-220VAC	<>	220VAC	5	5	10	10	1	3	18	25			
SC-E04-440VAC or SC-E04P-440VAC	<>	440-480VAC	J	3	10	10	'		10	25			
SC-E04-500VAC or SC-E04P-500VAC	<>	500-550VAC											
SC-E04G-24VDC or SC-E04PG-24VDC	<>	24VDC											
SC-E05-24VAC or SC-E05P-24VAC	<>	24VAC											
SC-E05-110VAC or SC-E05P-110VAC	<>	110VAC											
SC-E05-220VAC or SC-E05P-220VAC	<>	220VAC	5	7.5	15	15	2	3	25	32			
SC-E05-440VAC or SC-E05P-440VAC	<>	440-480VAC	J	1.5	13	10		J	20	32			
SC-E05-500VAC or SC-E05P-500VAC	<>	500-550VAC											
SC-E05G-24VDC or SC-E05PG-24VDC	<>	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.)



			SC-E Se	eries Conta	ctors Spec	ifications -	· UL and C	SA					
		Nomi	Rated Cap	acity (HP)					Rate (A) [n	Rate: Curre	SCCF (KA)	Ratec Volta	Fram
Model	Price	Nominal Coil Voltage	3-Phase M	otor			1-Phase M	otor	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)
		Voltage	200V	220–240V	440–480V	550–600V	100–20V	220–240V	urrent	hermal ote 2]	3	ion	(mm)
SC-E1-24VAC	<>	24VAC											
SC-E1-110VAC	<>	110VAC											
SC-E1-220VAC	<>	220VAC	1		0.5								
SC-E1-440VAC	<>	440-480VAC	7.5	10	25	25	2	3	32	50			
SC-E1-500VAC	<>	500-550VAC											
SC-E1G-24VDC	<>	24VDC											
SC-E2-24VAC	<>	24VAC											
SC-E2-110VAC	<>	110VAC	-										
SC-E2-220VAC	<>	220VAC	10	15	30	30	3	5	40	60			
SC-E2-440VAC	<>	1 1											54
		440-480VAC	DI-	1000 0000id== 1	Euii Eleatric 00	E porice se es	poroble re-lac	mont					
SC-E2-500VAC	<>	0.41/0.0	1	ase consider the					40	00			
SC-E2G-24VDC	<>	24VDC	10	15	30	30	3	5	40	60			
SC-E2S-24VAC	<>	24VAC	-										
SC-E2S-110VAC	<>	110VAC									5		
SC-E2S-220VAC	<>	220VAC	15	20	30	30	3	10	50	65			
SC-E2S-440VAC	<>	440-480VAC		20	00	00		10	00	00			
SC-E2S-500VAC	<>	500-550VAC											
SC-E2SG-24VDC	<>	24VDC											
SC-E3-24VAC	<>	24VAC										000	
SC-E3-110VAC	<>	110VAC				=0	_					690	
SC-E3-220VAC	<>	220VAC	20	25	50	50	5	15	65	100			
SC-E3-440VAC	<>	440-480VAC	_										
SC-E3-500VAC	<>		Ple	ease consider the	: Fuii Electric SC	-E series as con	nparable replace	ment					
SC-E3G-24VDC	<>	24VDC	20	25	50	50	5	15	65	100			
SC-E4-24VAC	<>	24VAC	20	20	00	00	0	10	00	100			67
SC-E4-110VAC	<>	110VAC					5	15	80				
		220VAC	_		50	50							
SC-E4-220VAC	<>		25	30						105			
SC-E4-440VAC	<>	440-480VAC											
SC-E4-500VAC	<>	500-550VAC	-										
SC-E4G-24VDC	<>	24VDC											
SC-E5-24V	<>	24VAC/VDC											
SC-E5-100V	<>	110VAC/VDC											
SC-E5-200V	<>	220VAC/VDC	30	30	60	75	7.5	15	105	150			88
SC-E5-400V	<>	380-450VAC									10		
SC-E5-500V	<>	460-575VAC									10		
SC-E6-24V	<>	24VAC/VDC											
SC-E6-100V	<>	110VAC/VDC	40	40	75	100	10	20	125	150			100
SC-E6-200V	<>	220VAC/VDC	1										
SC-E6-400V	<>		Discontinued item. Please consider the Fuji Electric SC-E series as comparable replacements										
SC-E6-500V	<>	460-575VAC	40	40	75	100	10	20	125	150			100
SC-E7-24V	<>	24VAC/VDC	1.0										
SC-E7-100V	<>	110VAC/VDC	-										
SC-E7-100V SC-E7-200V	<>	220VAC/VDC	50	50	100	125	15	25	450	200	10	690	115
				30	100	120	10	20	150	200			110
SC-E7-400V	<>	380-450VAC	-										
SC-E7-500V	<>	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.)



				SC-E	Series Co	ontactors	Specifica	tions - IE	C				
		Rated Cap	acity (kW)		Rat	ed Operat		5				
Contactor Type	3-Phase Motor AC-3 / AC-4				3-Phase Motor AC-3 / AC-4				Resistive Load AC-1		Rated Thermal Current	Internal Auxilliary Contact	
	200- 240V	380- 440V	500- 550V	600- 690V	200- 240V	380- 440V	500- 550V	600- 690V	200- 240V	380- 440V	(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	NEMA ICS 5-2000 Ratings (note 2)									
Frame Size	Insulation		AC Ratings		DC Ratings						
(1000 1)	Voltage (V)	Designation	Making VA	Breaking VA	Designation	Making/Breaking VA					
E5 to E7-xxx	690	A600	7200	720	Q300	69					

Notes:

	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	Making and Breaking Capacity (A)		R	Minimum Operating						
(note 1)	Insulation Voltage (V)	Thermal 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	5VDC. 3mA			
E5 to E7-xxx	690	10	220V	30	220V	3	48V	1.5				
EJ IU E7-XXX	090		440V	15	440V	1.5	110V	0.55	SVDG, SIIIA			
			600V	12	600V	1.2	220V	0.27				
Note 1: E02(G) to E	lote 1: E02(G) to E4(G) do not have internal auxiliary contact.											

^{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 MRC-tMRC-111.

Coil Characteristics

	AC Coil Characteristics												
	Power Consu	Power Loss (W)				Operating Time (ms)							
Frame Size	Inrush Sealed		5011-	COLL	Pick-Up Voltage (V)	Drop-Out Voltage (V)	Coil ON to	Coil OFF to					
	50/60Hz	50/60Hz	50Hz	60Hz			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					
Е5-ххх	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 Consump	otion (W)		2 2	Operating Time	e (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	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	Voltage Code Coil Operating Voltage							
24VDC	24VDC							

Performance Data

Frame size	Making cu	rrent (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



Standard operating conditions

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



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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						

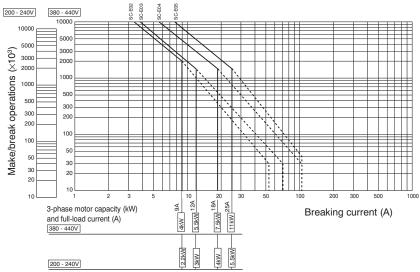
Wire Sizes, T	ightenin	g Torques - Control Circuit	
Calid or Ctronded Mire (name)	One	0.75 to 2.5 (1 to 1.6 mm diameter)	
Solid or Stranded Wire (mm²)	Two	0.75 to 2.5 (1 to 1.6 mm diameter)	
Stranded Wire	mm [in]	0.75 to 2.5 [0.03 to 0.10]	
Flexible Stranded Wire	AWG	18 to 14	
Ring Terminal [SC-E0x(P) only]	mm [in]	7.7 [0.30]	
AWG	One	18 to 14	
AVVG	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, Tightening Torques - Main Circuit							
Contactor Type		SC-E02-xxx	SC-E03-xxx	SC-E04-xxx	SC-E05-xxx		
Solid Miro (mm²)	One	0.75	0.75 to 4		to 6		
Solid Wire (mm²)	Two	1 t	to 4	1.5	to 6		
Stranded Wire (mm²)	mm [in]		0.75 to 10 [0.03 to 0.39]			
Flexible Stranded Wire	AWG		18 to 8				
Ring Terminal [SC-E0x(P) only]	Maximum 9.7 mm [0.38 in] wide						
AWG	One	12 ma	ıximum	10 ma	ximum		
AWG	Two	12 ma	ıximum	10 ma	ximum		
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			8764); D-VPH-2		
		Flat-blade screwdriver, 1 x 5.5 x L-type, B (ISO 2830); ADC part number TW-SD-VSL-4			ISO 2830);		
Tightening Torque (N·m)		1.2 to 1.5					

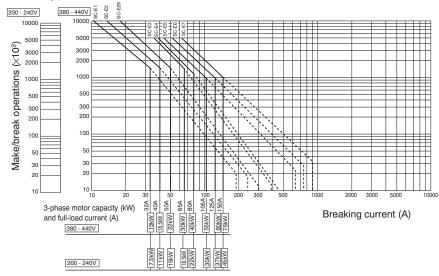
	Wir	e Sizes, Ti	ghtening Torques - Main	Circuit		
Contactor Type)		SC-E1, E2, E2S-xxx	SC-E3, E4-xxx	SC-E5, E6-xxx	SC-E7-xxx
	Solid or stranded wire (mm ²)	1	0.75 to 35	1.5 to 70	4 to 70	4 to 120
Top-Only Connection	Flexible stranded wire with sleeve (mm ²) ¹			1.5 to 50	2.5 to 50	2.5 to 95
	Flexible stranded wire without sleeve (mm ²)		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 (mm ²) 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 (mm ²)		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 (mm ²) ¹	Top/ bottom	0.75 to 25	1.5 to 50	4 to 70	4 to 120
Top/Bottom	Flexible stranded wire with sleeve (mm ²) 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 (mm ²)	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		Hex. wrench 4 (ISO 2936)		
		Flat-blade screwdriver, 1 x 5, 5xL- type, B (ISO 2830); ADC part number DN-SS5				
Tightening Torque (Nm)		2.5		8	10	
Self-locking Torque (Nm) 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 I loosening the bolt when top edge of the terminal state, the retaining brac	the anti-drop attachi . If a torque exceedi	nent on the bottom of	the bolt reaches the

Electrical durability

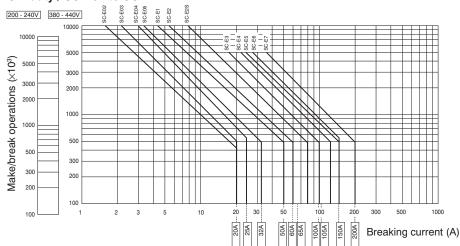
AC-3 duty / SC-E02 to SC-E05-xxx



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

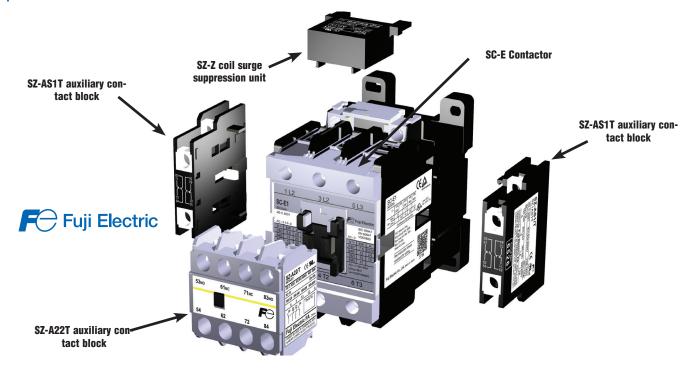


AC-1 duty / SC-E02 to SC-E7-xxx



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.

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.









SZ-A22T

SZ-A11T

SZ-AS1T SZ-AS2T

Auxiliary Contact Blocks with Terminal Covers								
Part Number	Price	Applicable Contactor	Mounting	Number of Contacts	Contact Arrangement			
SZ-A22T	<>			4	2NO + 2NC			
SZ-A20T	<>	SC-E02(G)-xxx to E4(G)-xxx	Front mounting	2	2NO			
SZ-A11T	<>				1NO + 1NC			
SZ-AS1T	<>	SC-E02(G)-xxx to E4(G)-xxx		2	1NO + 1NC			
SZ-AS2T	<>	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 DC Ratings							
Designation	Making VA	Breaking VA	Designation	Making/Breaking VA			
A600	A600 7200 720 Q300 69						
For more information, refer to Control Circuit Contact Electrical Ratings, page MRC-tMRC-111							

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							
Datad	0/1-1			Rated operation	nal current (A)			
Thermal	Rated Making and Thermal Breaking Capacity Current (A) at AC (A)			AC		DC .	Minimum Operating Voltage and Current	
Current (A)	at Ā	C (Å)	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	5VDC, 3mA	
10	440V	15	440V	1.5	110V	0.55	SVDG, SITIA	
	600V	12	600V	1.2	220V	0.27		

Coil surge suppression units





SZ-Z1

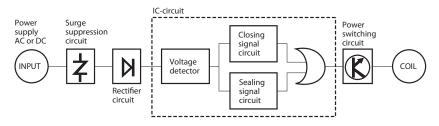
SZ-Z37

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.

	Coil Surge Suppression Units								
Dout Number	Drice	Applicable Contactor	•	Operating Coil	Dovino				
Part Number	Price	AC Operated	DC Operated	Voltage "	Device				
SZ-Z1	<>	SC-E02-xxx to E05-xxx	SC-E02G-xxx to	24-48V AC/DC					
SZ-Z2	<>	50-E02-XXX 10 E05-XXX	E05G-xxx	100-250V AC/DC					
SZ-Z31	<>	SC-E1-xxx to -E4xxx	SC-E1G-xxx to	24-48V AC/DC	varistor				
SZ-Z32	<>	36-E1-XXX 10 -E4XXX	XX to -E4XXX E4G-XXX						
SZ-Z4	<>	CC FOO you to FOE you	SC-E02G-xxx to	24-48V AC/DC					
SZ-Z5	<>	SC-E02-xxx to E05-xxx	E05G-xxx	100-250V AC/DC					
SZ-Z34	<>	SC-E1-xxx to E4-xxx		24-48V AC/DC	capacitor /				
SZ-Z35	<>	36-E1-XXX (0 E4-XXX	-	100-250V AC/DC	resistor				
SZ-Z36	<>		SC-E1G-xxx to	24-48V AC/DC					
SZ-Z37	<>	_	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.



Replacement contactor coils

	SC-E Series Replacement Contactor Coils							
Part Number	Price	Applicable Contactor	Coil Voltage					
SZ-GSN6-100	<>							
SZ-GSN5-200	<>	Discontinued item. No replacement available.						
SZ-GSN6-200	<>							
SZ-GSN5-24	<>							
SZ-GSN6-24	<>							

Fuji Duo Series SC-E Accessories

Connection kits for reversing SC-E contactors



	Connection Kits						
Part Number	Price	Description	Use with Contactors				
SZ-ERW1A	<>	Line side reversing connection kit.					
SZ-ERW1B*	<>	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	<>	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.					
SZ-ERW2B*	<>	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	<>	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.					
SZ-ERW3B*	<>	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	<>	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	<>	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.

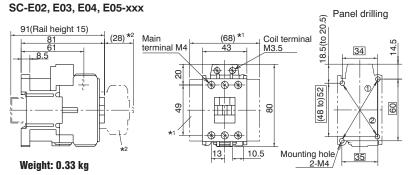
Parts for reversing Fuji SC-E contactors

- 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)



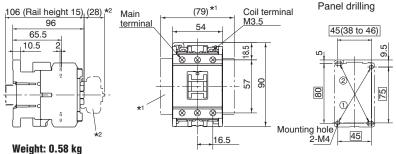
Dimensions (mm)

Contactors



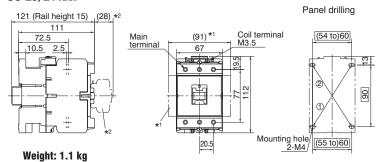
Use the two mounting holes on a diagonal line 1 or 2 to mount contactor 1: 35×60 2: $35 \times (48 \text{ to})$ 52

SC-E1, E2, E2S-xxx



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-E3, E4-xxx

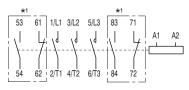


Use the two mounting holes on a diagonal line 1 or 2 to mount contactor 1: (55 to) 60×90 2: (54 to) 60×90

Wiring diagrams

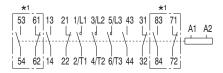
Contactors

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



*1 In case of aux. contact 2NO+2NC

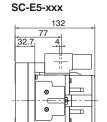
SC-E5, E6, E7-xxx

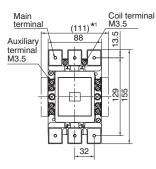


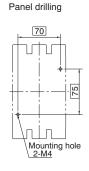
*1 In case of aux. contact 4NO+4NC

Dimensions (mm)

Contactors





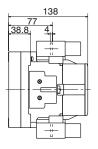


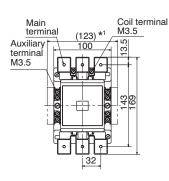


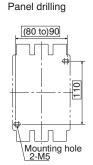
- *1 Side mounting aux. contact block
- *2 Front mounting aux. contact block

Weight: 2.0 kg

SC-E6-xxx



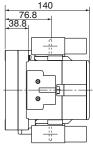




Panel drilling

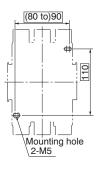
Weight: 2.6 kg

SC-E7-xxx

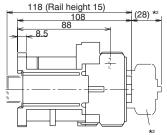




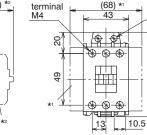
Coil terminal Main M3.5 (138) *Auxiliary terminal M3.5 35

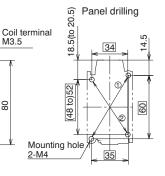


SC-E02G, E03G, E04G, E05G-xxx



Weight: 0.59 kg





Use the two mounting holes on a diagonal line + or 2 to mount contactor + 35 \times 60 2: 35 \times (48 to) 52

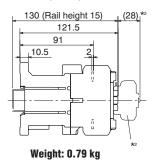
8

(68) *1

Dimensions [mm]

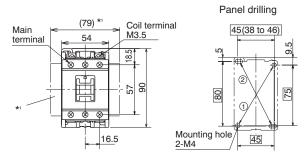
Contactors

SC-E1G, E2G, E2SG-xxx



*1 Side mounting aux. contact block

*2 Front mounting aux. contact block



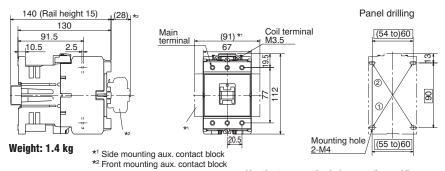
Use the two mounting holes on a diagonal line

① or ② to mount contactor

①: 45×75 ②: 45 (38 to 46)×80



SC-E3G, E4G-xxx



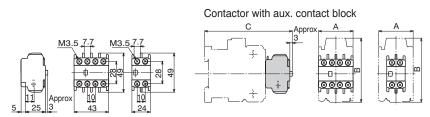
Use the two mounting holes on a diagonal line 1 or 2 to mount contactor

①: (55 to) 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



Weight: 36 g SZ-A20T, A11T Weight: 20 g

Туре	Α	В	С
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

Dimensions (mm)

Auxiliary contact blocks - side mounting

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

SC-E1G, E2G, E2SG-xxx

SC-E3G, E4G-xxx

Contactor with aux. contact block С D M3.5 Weight: 28 g В D SC-E02, E03, E04, E05-xxx 67 80 81 43 SC-E1, E2, E2S-xxx 78 90 54 SC-E3, E4-xxx 91 112 67 SC-E02G, E03G, E04G, E05(G)-xxx 67 80 43

Wiring diagrams

1 N.O. + 1 N.C.

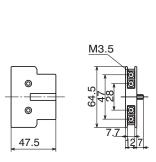
Mounted on right side



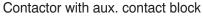
Mounted on left side



SZ-AS2T for SC-E5 to E7-xxx



Weight: 40 g



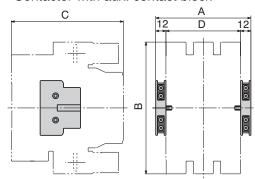
78

91

90

112

121.5 54



Туре	Α	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 side

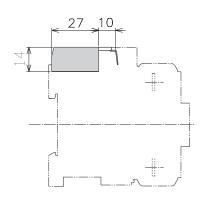


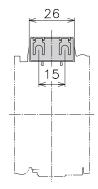
Mounted on left side

Dimensions (mm)

Coil surge suppression units

SZ-Z1, Z2, Z4, Z5





Wiring diagrams

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

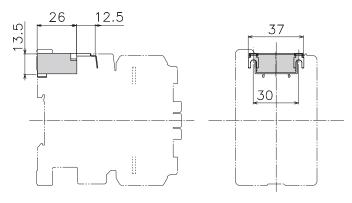


SC-E02 to E05-xxx + SZ-Z4, Z5 (Built-in capacitor/resistor)



Weight: 14 g

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



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)



Weight: 15 g

