

To All Customers

Rep No.C20001AP

July 23, 2020

Fuji Electric FA Components
& Systems Co., Ltd.

Notification regarding Discontinuation of Some SC-E Series small contactors

We would like to thank you for your continued patronage of Fuji products.
 We are writing to announce the production discontinuation of some of our products.
 Details are described below.
 Please review the following information and take appropriate actions.
 Please also inform all related sections of your company of this discontinuation.

Product name	Contactors													
Series name	SC-E series													
Types	Straight wiring connection types (non Ring terminal connection types): SC-E02, SC-E03, SC-E04, SC-E05 Products starting with above types (DC coil) are included. ※Ring terminal connection types (Types followed by "P") are not included.													
Reason for termination	Consolidation of type numbers which have the same wiring specifications as Ring terminal connection types.													
Replacement model	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;">Current product (Straight wiring connection type)</td><td style="padding: 5px;">SC-E02□</td><td style="padding: 5px;">SC-E03□</td><td style="padding: 5px;">SC-E04□</td><td style="padding: 5px;">SC-E05□</td></tr> <tr> <td style="padding: 5px;">Replacement product (Ring terminal connection)</td><td style="padding: 5px;">SC-E02P□</td><td style="padding: 5px;">SC-E03P□</td><td style="padding: 5px;">SC-E04P□</td><td style="padding: 5px;">SC-E05P□</td></tr> </table> <p>□: may be followed by "/G"(DC coil types)</p>				Current product (Straight wiring connection type)	SC-E02□	SC-E03□	SC-E04□	SC-E05□	Replacement product (Ring terminal connection)	SC-E02P□	SC-E03P□	SC-E04P□	SC-E05P□
Current product (Straight wiring connection type)	SC-E02□	SC-E03□	SC-E04□	SC-E05□										
Replacement product (Ring terminal connection)	SC-E02P□	SC-E03P□	SC-E04P□	SC-E05P□										
Attachments	①Connectable wire sizes, tightening tools, tightening torques ②Removal and installation of arc cover													
Last order date	9/30/2020													
Others	The wiring specifications (wire size, number of wire, screw type/size and tightening torque) of the replacement products (Ring terminal connection types) are the same as Straight wiring connection types. Removal and installation of arc cover are different from current products. Please see the attachment for details													

Attachment①

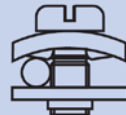
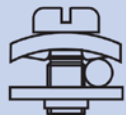
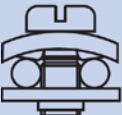






Connectable wire sizes, tightening tools, tightening torques

Identical specification with Both types

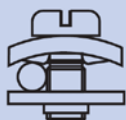
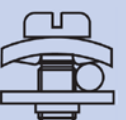
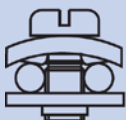
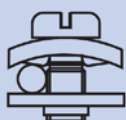
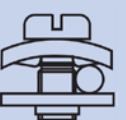
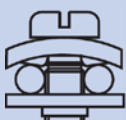
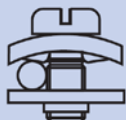
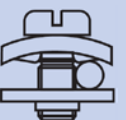
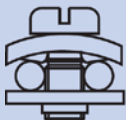
Additional specification for Ring terminal connection types

●Straight wiring connection types(SC-E02,E03,E04,E05)

•Main circuit

Contactor type(SC-□)					E02	E03	E04	E05
Solid wire					[mm ²]	1× (φ 1.2~3.2)		
Number	One(1×)		Two(2×)			2× (φ 1.2~2.0)		
Drawings						AWG	1× (16~8)	
Place	Left	Right	Both				2× (16~10)	
Stranded wire②					[mm ²]	1× (0.75~6)		
Number	One(1×)		Two(2×)			2× (1~4)		
Drawings						AWG	2× (1.5~6)	
Place	Left	Right	Both				1× (18~10)	
Stripping length (for solid / stranded wire)					[mm]	11		
Flexible stranded wire (with sleeve) (Note 1)					[mm ²]	1× (0.75~6)		
Number	One(1×)		Two(2×)			2× (1~4)		
Drawings						AWG	2× (1.5~6)	
Place	Left	Right	Both				1× (18~10)	
Sleeve length ③④ (for flexible wire)					[mm]	12		
Terminal screw size					M4			
Tool①					⊕ ⊖			
Tightening torque					[N·m]	1.2~1.5		

•Control circuit

Contactor type(SC-□)					E02	E03	E04	E05
Solid wire (Note 3)					[mm ²]	φ 1.2~2		
Number	One(1×)		Two(2×)					
Drawings								
Place	Left	Right	Both					
					AWG (Note 2)	16~12		
Stranded wire②					[mm ²]	1× (0.75~2.5) 2× (0.75~1.5) 2× (1.5~2.5)		
Number	One(1×)		Two(2×)					
Drawings								
Place	Left	Right	Both					
					AWG (Note 2)	1× (18~14) 2× (18~16) 2× (16~14)		
Stripping length (for solid / stranded wire)					[mm]	10		
Flexible stranded wire (with sleeve) (Note 1)					[mm ²]	1× (0.75~2.5) 2× (0.75~1.5) 2× (1.5~2.5)		
Number	One(1×)		Two(2×)					
Drawings								
Place	Left	Right	Both					
Sleeve length ③⑤ (for flexible wire)					[mm]	10		
Fork terminal					Max. 7.7mm wide (F2-3.5)			
Terminal screw size					M3.5			
Tool①					⊕ ⊖			
Tightening torque					[N·m]	0.8~1		

(Note 1) Flexible stranded wire without end sleeve is not applicable.

Use flexible stranded wire with end sleeve.

(Note 2) 14AWG and larger wire is available for UL and CSA. 16AWG and smaller wire cannot be used.

(Note 3) Each terminal can connect two ring terminals.

Use the same size wire for the two solid wires.

- ① ⊕:Phillips PH2 (JIS B 4633)
⊖:Slotted-head screw I-1×5.5×L Type B (JIS B 4609)

- ② Stranded wire 0.75~35mm²:Number of solids≤7
Flexible stranded wire:Number of solids is more than the above-mentioned value.

- ③ Use the sleeves (ferrules) according to DIN46228.

Depending on the crimping tool, the sleeves may not be inserted into the terminals.
The below or equivalent crimping tool for sleeves is recommended.

Follow sleeve manufacturer's instruction for stripping length of wire.

Recommended crimping tool

Phoenix Contact, CRIMPFOX 6 (0.75~6mm²)

- ④ Use the sleeves without plastic insulating cover for 6mm²(10AWG).

- ⑤ Use the sleeves without plastic insulating cover for 1.5~2.5mm²(16~14AWG).

●Ring terminal connection types(SC-E02P,E03P,E04P,E05P)

•Main circuit

Contactor type(SC-□)					E02P	E03P	E04P	E05P
Straight wiring connection	Solid wire				[mm ²]	1 × (φ 1.2~3.2)		
	Number	One(1 ×)		Two(2 ×)		2 × (φ 1.2~2.0)		
	Drawings					1 × (16~8)		
	Place	Left	Right	Both		2 × (16~10)		
	Stranded wire②				[mm ²]	1 × (0.75~6)		
	Number	One(1 ×)		Two(2 ×)		2 × (0.75~1.5)		
	Drawings					2 × (1~4)		
	Place	Left	Right	Both		2 × (1.5~6)		
	Stripping length (for solid / stranded wire)				[mm]	11		
	Flexible stranded wire (with sleeve) (Note 1)				[mm ²]	1 × (0.75~6)		
	Number	One(1 ×)		Two(2 ×)		2 × (1~4)		
	Drawings					2 × (1.5~6)		
	Place	Left	Right	Both		1 × (18~10)		
	Sleeve length ③④ (for flexible wire)				[mm]	12		
Ring terminal connection	Stranded wire				[mm]	0.75~10		
	Flexible stranded wire				AWG	18~8		
	Righ terminal ⑥				[mm]	Max. 9.7mm wide		
	Terminal screw size				M4			
	Tool①				⊕ ⊖			
Tightening torque				[N·m]	1.2~1.5			

•Control circuit

形式(SC-□)					E02P	E03P	E04P	E05P				
Straight wiring connection	Solid wire (Note 3)				[mm ²]	φ 1.2~2						
	Number	One(1×)		Two(2×)								
	Drawings											
	Place	Left	Right	Both	AWG (Note 2)	16~12						
	Stranded wire②								[mm ²]			
	Number	One(1×)		Two(2×)								
	Drawings											
	Place	Left	Right	Both	AWG (Note 2)	1× (0.75~2.5) 2× (0.75~1.5) 2× (1.5~2.5) 1× (18~14) 2× (18~16) 2× (16~14)						
	Stripping length (for solid / stranded wire)								[mm]	10		
	Flexible stranded wire (with sleeve) (Note 1)											
Number	One(1×)		Two(2×)									
Drawings				AWG (Note 2)	1× (0.75~2.5) 2× (0.75~1.5) 2× (1.5~2.5) 1× (18~14) 2× (18~16) 2× (16~14)							
Place	Left	Right	Both									
Sleeve length ③⑤ (for flexible wire)								[mm]	10			
Ring terminal connection	Stranded wire				[mm]	0.75~2.5						
	Flexible stranded wire				AWG	18~14						
	Righ terminal ⑥				[mm]	7.7						
Fork terminal					Max. 7.7mm wide (F2-3.5)							
Terminal screw size					M3.5							
Tool①					⊕ ⊖							
Tightening torque					[N·m]	0.8~1						

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- ⑥ JIS C 2805 (Crimp-type terminal lugs for copper conductors)

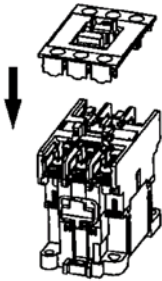
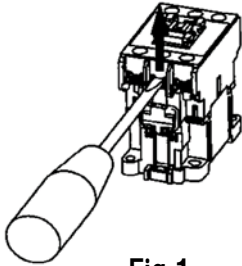
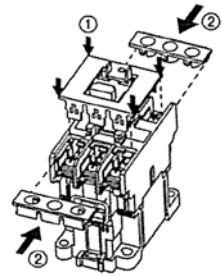
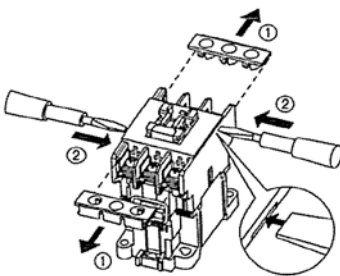
Attachment②

Removal and installation of arc cover

Rep No.C20001AP

July 23, 2020

Fuji Electric FA Components
& Systems Co., Ltd.

Straight wiring connection types SC-E02, SC-E03, SC-E04, SC-E05	Ring terminal connection types SC-E02P, SC-E03P, SC-E04P, SC-E05P
<p>After fastening terminal screw of middle phase, insert flat-bladed screwdriver between arc cover and washer of terminal screw and lift the arc cover, so arc cover will be removed (Fig.1). See Fig.2 for attachment of arc cover.</p> <div data-bbox="244 847 734 1234"><p>Fig.1</p><p>Fig.2</p></div>	<p>After removing the terminal covers to slide in the direction of wiring. A flat-bladed screwdriver is inserted straight from the direction of the side in the corner hole in the arc cover side, so arc cover will be removed. Be careful not to add superfluous power to the arc cover, or the arc is broken (Fig.3). For attaching the arc chamber, push four corners at the same time so as not to get on washer (Fig.4).</p> <div data-bbox="888 873 1494 1234"><p>Fig.3</p><p>Fig.4</p></div>