

Rep No. C15002a

October 5, 2015

To All Customers

Fuji Electric FA Components & Systems Co., Ltd.

[Prior Notice of Discontinuation] Notice of Discontinuation of High Sensitivity Contactor SJ-1SG Type

Thank you for your continued patronage of Fuji products.

We would like to notify discontinuation of some of the Fuji Electric's products as described below.

Please review the following information and take appropriate actions.

Please inform all related sections of your company.

Product name	Magnetic contactor and magnetic starter		
Series and series name	High sensitivity contactor SJ Series		
Types	Magnetic contactor: SJ-1SG□, SJ-1SGRM□		
	Magnetic starter: SJ-1SWG□, SJ-1SWGRM□		
	All types which begin with the letters and numbers above will be discontinued.		
Reason for discontinuation of production	Because the production facility has become too old to continuously manufacture the SJ-1SG type.		
Replacement models	Magnetic contactor: SK18G□, SK22G□, SK32G□		
	Magnetic starter: SK18GW□, SK22GW□, SK32GW□		
	* Since some product specifications differ, refer to the new and old comparison document for confirmation.		
Production discontinuation schedule	The production will be discontinued at the end of December 2015		
Attachments	- New and old comparison document: FIN 0291180a		
Last order date	We will stop accepting orders at the end of November 2015.		
Maintenance parts	There are no maintenance parts.		
Others	N/A		

Comparison of Magnetic Starter Specifications SK Series – SJ Series



1. New & Old Types

SK Series (new)		SJ Series (old)
Main unit	Option	
SK18G	SZ-A 🗆 (2 poles)	SJ-1SG
	SZ-AS □ □ (2 poles)	

2. Comparison of Magnetic Contactor Specifications

			SK Series (new)	SJ Series (old)	
Туре			SK18G	SJ-1SG	
	ational ambient ten	perature	-10°C to +55°C	-10°C to +50°C	
	nounting		OK	OK	
	insulation voltage		690V	500V	
Rated impulse withstand voltage			6kV	4kV	
	Conventional free current (rated the		32A	25A	
	Three-phase	200-240V	3.7kW 18A	3.7kW 18A	
-	squirrel-cage mot	or 380-440V	7.5kW 18A	3.7kW 9A	
cui	capacity (AC-3)	500-550V	7kW 13A	-	
Cir	Resistive load	200-240V	32A	25A	
Main circuit	capacity (AC-1)	380-440V	32A	25A	
Σ	Making current	220V	216A	180A	
	capacity	440V	180A	90A	
	Breaking current	220V	180A	144A	
	capacity	440V	144A	72A	
Durability Electrical (AC-3)		lechanical	5 million times	10 million times	
		lectrical (AC-3)	1 million times (220V) / 0.7 million times (440V)	2 million times (220V,440V	
t	Contact arrange	ement	1NO, 1NC	2NO, 1NO+1NC	
	Conventional fro	ee air thermal	10A	10A	
rcu		100-120V	6A	6A	
V CI	Coil load rated	200-240V	3A	3A	
lian	operational current (AC-15)	380-440V	1.5A	1.5A	
Auxiliary circuit		500-600V	1.2A		
AI	Minimum opera voltage/current	tional	5V DC 3mA	5V DC 3mA	
	Mirror contact		OK	OK	
	Manufacturable	voltage range	12-220V DC	12, 24V DC	
	Polarity		Yes	Yes	
Coil	Coil (magnet)	Upon inrush	2.4W	2.4W	
-	power consumption	When sealed	2.4W	2.4W	
	Reversing type		Assembled / sold separately	Assembled	
duc	Reversing type		Assembled / sold separately	Assembled	
Applied	Auxiliary contac	t block	2 poles	No	
AId	Terminal cover		Included as standard	Sold separately	

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- A large inrush current may be applied to the driving equipment, such as an inverter and servo amplifier, during power-up.
- When replacing a model, check it in an actual load circuit in advance.

When electrical durability is insufficient, it is better to switch to SK22 or 32 types. (see below)
SK22: 1.5 million times (220 V, 18 A), SK32: 2.3 million times (220 V, 18 A)
(The outline dimensions of SK32 are different from those in this document. Please contact us for details.)

		DATE	NAME	APPROVED	Fuji Electric FA Components & Systems Co., Ltd.	1/
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			SK Series (new)	SJ Series (old)	
Туре			TK25	TR-5-1N	
	er consumption		1.4 VA/pole	1.9 VA/pole	
Trip class		10A	5 (quick operating type), 1 A, 30 (long-time operating type)		
	Contact arranger	nent	1NO+1NC	1NO+1NC	
Auxiliary circuit	Conventional free air thermal current (rated thermal current)		5A	5A	
V ci	Coil load rated	24V	1.1A	1.1A	
iar	operational curre	nt 100-120V	0.28A	0.28A	
lixn	(DC-13)	200-240V	0.14A	0.14A	
AI	Minimum operation voltage/current	onal	5V DC 3mA	5V DC 3mA	
noi	Overload detection	on (2 poles)	*1	Standard	
Protection	Overcurrent dete	ction (3 poles)	Standard	Applied product	
Pro	Open phase dete	ction	Standard	Applied product	
Amb	ient temperature co	mpensation	Yes	Yes	
Rese	et method		Manual/auto	Manual/auto	
Char	nging reset method	after shipping	OK	OK	
Trip i	ndicator		Yes	Yes	
Appli	ed product	ial cover	Standard	Sold separately	
Abbi	T T	erminal cover	Standard	Sold separately	

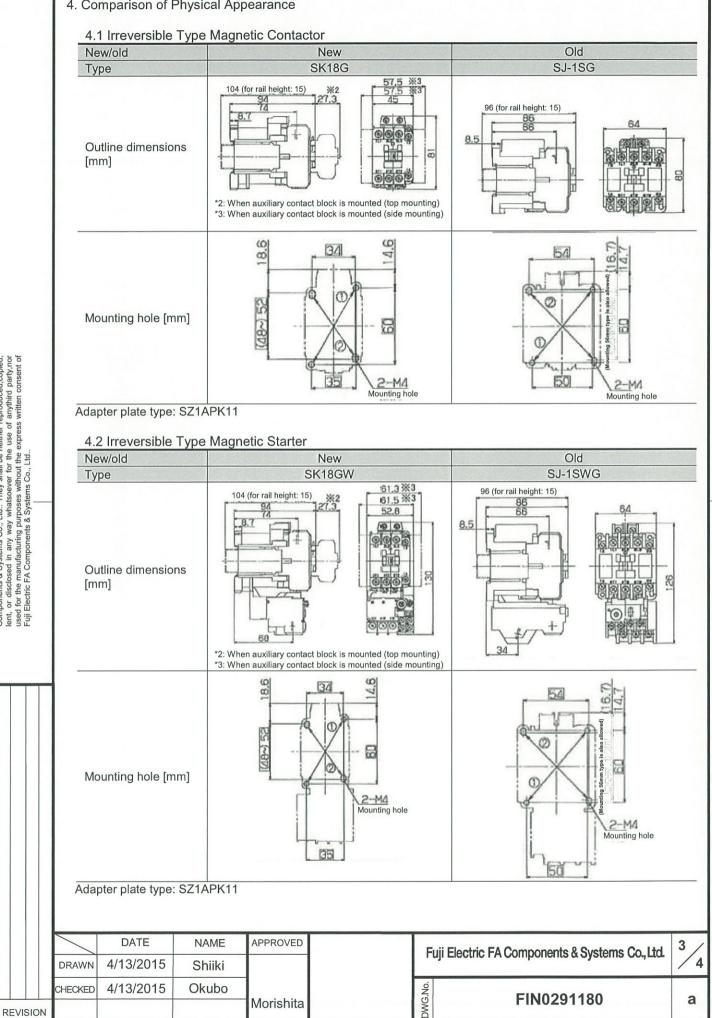
*1: For the SK series, a heater element is individually installed in each of three phases as standard. Wire the thermal overload relay so that the current is applied to every phase even in a single-phase circuit or DC circuit.

Comparison of heater element ratings of thermal overload relays

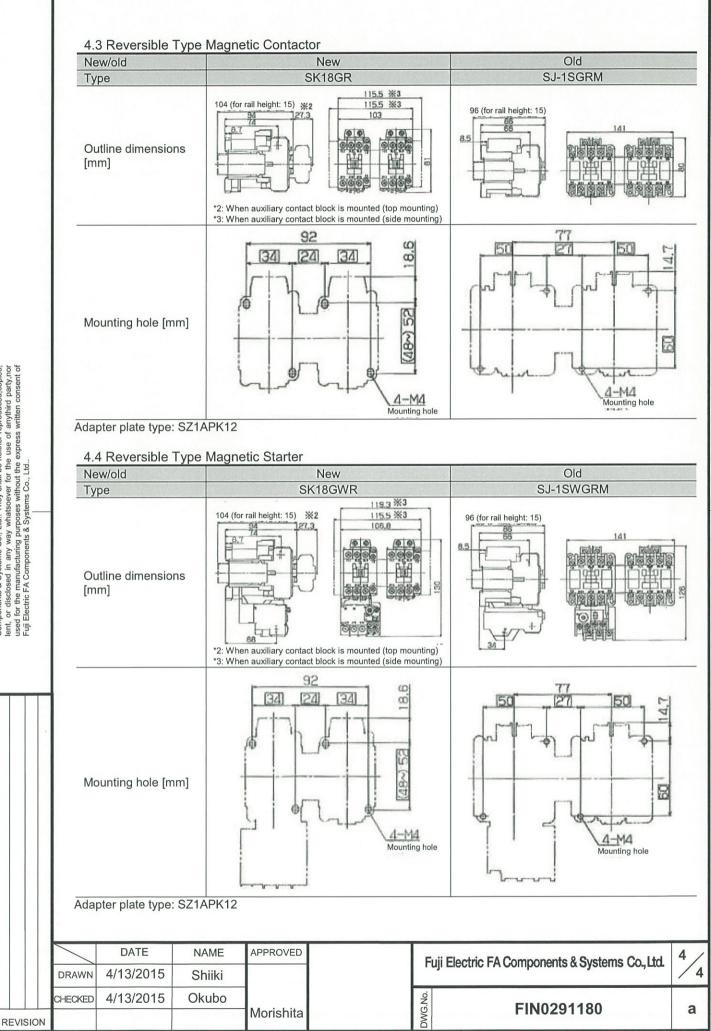
Applicable capacity of three-phase squirrel-cage induction motor		Magnetic starter type and accompanying thermal overload relay type		
		New	Old	
		SK18GW	SJ-1SWG	
4P 400V	4P 200V	TK25	TR-5-1N	
		0.1 to 0.15 A	0.1 to 0.15A	
		0.13 to 0.2 A	0.15 to 0.24A	
		0.18 to 0.27 A	-	
0.1 kW		0.24 to 0.36 A	0.24 to 0.36A	
		0.34 to 0.52 A	0.36 to 0.54A	
0.2 kW	0.1 kW	0.48 to 0.72 A	0.48 to 0.72A	
		0.64 to 0.96 A	0.64 to 0.96A	
0.4 kW		0.8 to 1.2 A	0.8 to 1.2A	
	0.2 kW	0.95 to 1.45 A	0.95 to 1.45A	
0.75 kW		1.4 to 2.1 A	1.4 to 2.2A	
	0.4 kW	1.7 to 2.6 A	1.7 to 2.6A	
		2.2 to 3.4 A	2.2 to 3.4A	
1.5 kW	0.75 kW	2.8 to 4.2 A	2.8 to 4.2A	
2.2 kW		4 to 6A	4 to 6A	
	1.5 kW	5 to 7.5 A	5 to 8A	
3.7 kW		6 to 9A	6 to 9A	
	2.2 kW	7 to 10.5 A	7 to 11A	
5.5 kW		9 to 13 A	9 to 13A	
7.5 kW	3.7 kW	12 to 18 A	12 to 18 A	
		16 to 22A	-	

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