

To All Customers

Rep No. C21011

November 11, 2021

Fuji Electric FA Components
& Systems Co., Ltd.

BM3 Series Manual Motor Starter Optional Products Notification regarding Production Discontinuation of Some Models

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.

We apologize for any inconvenience this discontinuance may cause.

Product name	Manual motor starter optional products
Series name	BM3 Series
Type	Base plate: BZ0BPVE65A Enclosure: All models Busbar: Some models For details, see Attachment (1).
Reason for termination	It has become difficult to continue production due to our contractor withdrawing from this line of business. We deeply apologize for any inconvenience this might cause.
Replacement models	For details, see Attachment (1).
Date of production termination	Immediately
Attachments	Attachment (1): List of Discontinued and Out-of-supply MMS Optional Products Attachment (2): Base Plate Alternatives Attachment (3): Enclosure Alternatives
Last order date	End of January 2022 We are unable to accept last orders for some models due to procurement difficulties. When last orders are possible, please be aware that supplies may be limited. Please refer to Attachment (1) for details on the availability of last orders.
Maintenance parts	There are no maintenance parts.
Others	

■(For Distributors and Customers) List of Discontinued and Out-of-supply MMS Optional Products

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Fuji Electric FA Components & Systems Co., Ltd.

Gr	Type	Product specifications	Alternatives *1	Availability of last orders
Production discontinuation types	BZ0BPVE65A	Base plate	Please consider separate or baseless installation.	No
	BZ0CCA	Conversion kit (for IP55)	No alternatives available.	Yes (supplies are limited)
	BZ0CFLA	Flush mounting enclosure (IP41)	No alternatives available.	Yes (supplies are limited)
	BZ0CFLB	Flush mounting enclosure (IP55) Conversion kit: With BZ0CCA	No alternatives available.	Yes (supplies are limited)
	BZ0CKA	Padlocking device	No alternatives available.	Yes (supplies are limited)
	BZ0CLCA	pilot light (opaque white, 100 to 120 V AC)	No alternatives available.	Yes (supplies are limited)
	BZ0CLCB	pilot light (opaque white, 200 to 240 V AC)	No alternatives available.	Yes (supplies are limited)
	BZ0CLCC	pilot light (opaque white, 380 to 440 V AC)	No alternatives available.	Yes (supplies are limited)
	BZ0CLCD	pilot light (opaque white, 480 to 500 V AC)	No alternatives available.	Yes (supplies are limited)
	BZ0CLCE	pilot light (opaque white, 500 to 600 V AC)	No alternatives available.	Yes (supplies are limited)
	BZ0CLGA	pilot light (green, 100 to 120 V AC)	No alternatives available.	Yes (supplies are limited)
	BZ0CLGB	pilot light (green, 200 to 240 V AC)	No alternatives available.	Yes (supplies are limited)
	BZ0CLGC	pilot light (green, 380 to 440 V AC)	No alternatives available.	Yes (supplies are limited)
	BZ0CLGD	pilot light (green, 480 to 500 V AC)	No alternatives available.	Yes (supplies are limited)
	BZ0CLGE	pilot light (green, 500 to 600 V AC)	No alternatives available.	Yes (supplies are limited)
	BZ0CLRA	pilot light (red, 100 to 120 V AC)	No alternatives available.	Yes (supplies are limited)
	BZ0CLRB	pilot light (red, 200 to 240 V AC)	No alternatives available.	Yes (supplies are limited)
	BZ0CLRC	pilot light (red, 380 to 440 V AC)	No alternatives available.	Yes (supplies are limited)
	BZ0CLRD	pilot light (red, 480 to 500 V AC)	No alternatives available.	Yes (supplies are limited)
	BZ0CLRE	pilot light (red, 500 to 600 V AC)	No alternatives available.	Yes (supplies are limited)
	BZ0CNA	Neutral connector	No alternatives available.	Yes (supplies are limited)
	BZ0CPK	Emergency stop push button (key type)	No alternatives available.	Yes (supplies are limited)
	BZ0CPL	Emergency stop push button (push-lock turn-reset type)	No alternatives available.	Yes (supplies are limited)
	BZ0CPM	Emergency stop push button (momentary action type)	No alternatives available.	Yes (supplies are limited)
	BZ0CSLA	Front mounting type enclosure (IP41)	No alternatives available.	No
	BZ0CSLB	Front mounting type enclosure (IP55) Conversion kit: With BZ0CCA	No alternatives available.	No
	BZ0CUA	Re adapter set (BM3RS + adapter for auxiliary under voltage tripping)	No alternatives available.	Yes (supplies are limited)
	BZ0BCVA	Busbar cover (for pin connection)	No alternatives available.	Yes (supplies are limited)
	BZ0BR22A	Busbar (forks; for two units; 63 mm pitch)	No alternatives available.	Yes (supplies are limited)
	BZ0BR24A	Busbar (forks; for four units; 63 mm pitch)	No alternatives available.	Yes (supplies are limited)
	BZ0BV03A	Busbar (pins; for three units; 55 mm pitch)	No alternatives available.	Yes (supplies are limited)
	BZ0BV12A	Busbar (pins; for two units; 64 mm pitch)	No alternatives available.	Yes (supplies are limited)
	BZ0BV13A	Busbar (pins; for three units; 64 mm pitch)	No alternatives available.	Yes (supplies are limited)
	BZ0BV14A	Busbar (pins; for three units; 64 mm pitch)	No alternatives available.	Yes (supplies are limited)
BZ0BV22A	Busbar (pins; for two units; 73 mm pitch)	No alternatives available.	Yes (supplies are limited)	
BZ0BV24A	Busbar (pins; for three units; 73 mm pitch)	No alternatives available.	Yes (supplies are limited)	
BZ0LRC09AA	Connecting module (contactor AC or DC coil)	No alternatives available.	Yes (supplies are limited)	
Out-of-supply types	BZ0BPVE22A	Base plate	Until availability changes, please consider using the SK Series for replacement, separate installation, or baseless installation. (For details, see Attachment (2).)	Not applicable
	BZ0BPVE51A	Base plate	Until availability changes, please consider using the SK Series for replacement, separate installation, or baseless installation. (For details, see Attachment (2).)	Not applicable
	BZ0BPVE32A	Base plate	Until availability changes, please consider using the SK Series for replacement, separate installation, or baseless installation. (For details, see Attachment (2).)	Not applicable
	BZ0BPCA	Base plate coupling kit	No alternatives available.	Not applicable

*2 Assembled products and special products that utilize the above types are also subject to the content of this attachment.

Attachment (2)-1 MMS Base Plate Alternatives

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[Base plate alternatives due to procurement difficulties]

- (1) Use a type that does not need a base plate. Applicable contactor types are SC-E02P to SC-E05P.
- (2) If a SC-E02 to SC-E1 contactor is used, change the contactor to a SK Series product and use it without a base plate.
The performance and specifications are partially different, so please refer to Attachment (2) for details.
- (3) Install the MMS and contactor separately and connect them with wires (do not use a connecting module or base plate).

Table 1: Alternative applicability

No.	Base plate type	Applicable MMS and contactors		Alternatives			
		MMS type	Contactor type (AC coil or DC coil)	(1) Use without a base plate See this attachment for details.	(2) Change contactor to SK Series and use without a base plate See Attachment (2)-2 for details.	(3) Install the MMS and contactor separately and connect them with wires -	
1	BZ0BPVE22A	32AF	BM3RHB	SC-E02 to SC-E05	Needs to be changed to SC-E□P	✓ (SK12, SK18, SK22)	✓
2				BM3RHR	SC-E02P to SC-E05P	✓	(SK12, SK18, SK22)
3	BZ0BPVE32A			SC-E1	Needs to be changed to SC-E□P	✓ (SK32)	✓
4				SC-E1P	✓	✓ (SK32)	✓
5	BZ0BPVE51A	63AF	BM3VR5B	SC-E1 to SC-E2S	-	-	✓
6				BM3VRHB	SC-E1P to SC-E2SP	-	-
7	BZ0BPVE65A			SC-E3	-	-	✓
8				SC-E3P	-	-	✓

[Alternative (1): Details of use without base plate]

As shown in Table 2, use two rails to mount the MMS and contactor. Also, mount the rail according to the following instructions.

* Please note that applicable contactors are P-types SC-E02P to SC-E05P.

Standard MMS: Comparison table when BM3RS□ is used.

	With base plate (current): SC-E02 to SC-E05	Without base plate (Alternative 1): SC-E02P to SC-E05P	
AC coil contactor	<p>Rail mounting: (1) 35 mm rail (15 mm height) x 2</p>	<p>Rail mounting: (1) 35 mm rail (15 mm height) x 2</p>	<p>Installation procedure</p> <p>1) Mount two rails at a pitch of 102.5 mm. Remove the line side terminal cover and terminal screws of the magnetic contactor, and mount it on the rail with the coil terminal on the bottom.</p> <p>2) After installing the connecting module on the MMS, mount it to the rail.</p> <p>3) Tighten the main terminal screw, and then mount the terminal cover.</p> <p>4) To remove it, follow the above procedures in reverse.</p> <p>* The photos are for reference only.</p>
DC coil contactor	<p>Rail mounting: (1) 35 mm rail (15 mm height) x 2</p>	<p>Rail mounting: (1) 35 mm rail (15 mm height) x 2</p>	

* The photos are for reference only.

Attachment (2)-2 MMS Base Plate Alternatives

Alternative (2): Comparison when changing the contactor from SC-E to the SK Series

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Item		Current		Alternative*	
Combination	MMS type	BM3RS□	BM3RS□	BM3RS□	BM3RS□
	Contactor type	BM3RH□	BM3RH□	BM3RH□	BM3RH□
	Link module type	SC-E02	SC-E03	SK12	SK18
	Contactor AC coil	BZ0LRE22AA	BZ0LRE22AA	BZ0LRK12AA	BZ0LRK22AA + BZ0LRKACA
	Contactor DC coil	BZ0LRE22GA	BZ0LRE22GA	BZ0LRK12AA	BZ0LRK22AA
	Base plate type	BZ0BPRE22A	BZ0BPRE22A	No	No

Specification				SC-E02, E02P	SC-E03, E03P	SK12	SK18	
Contactor specification	Rated insulation voltage			600 V	600 V	690 V	690 V	
	Main circuit rating	Motor load (AC-3) (AC-3/JIS rating)	200 to 240 V	2.2kW 11A	2.7kW 13A	2.2kW 12A	3.7kW 18A	
			380 to 440 V	2.7kW 7A	4.4kW 9A	5.5kW 12A	7.5kW 18A	
		Motor load (AC-3) (AC-3/IEC rating)	200 to 240 V	2.2kW 9A	3.3kW 12A	3.3kW 12A	4.5kW 18A	
			380 to 440 V	4.4kW 9A	5.5kW 12A	5.5kW 12A	7.5kW 18A	
	Resistive load (AC-1)	200 to 240 V	20A	20A	20A	32A		
		380 to 440 V	20A	20A	20A	32A		
	Durability	Mechanical	(millions of times)	1000	1000	1000	500	
		Electrical (AC-3/IEC rating)	(millions of times)	200 (400 V AC)	150 (400 V AC)	100 (200 V AC)	100 (200 V AC)	
	Operating cycle	AC-3	(Times/hour)	1800	1800	1800	1800	
	Terminal screw	Main circuit		M4	M4	M3.5	M4	
		Control circuit		M3.5	M3.5	M3.5	M3.5	
	Auxiliary contact			None	None	1NO or 1NC	1NO or 1NC	
	Wire size			See Attachment (2)-3	See Attachment (2)-3	See Attachment (2)-3	See Attachment (2)-3	
	AC coil	Coil character	Inrush VA (at 200 V/50 Hz)	(VA)	90	90	22	90
Inrush VA (at 220 V/60 Hz)			(VA)	95	95	25	95	
Holding VA (at 200 V/50 Hz)			(VA)	9	9	4.5	9	
Holding VA (at 220 V/60 Hz)			(VA)	9	9	4.5	9	
Operating time		(ms)	9 to 20	9 to 20	17 to 26	9 to 20		
Release time		(ms)	5 to 16	5 to 16	8 to 11	5 to 16		
Dimensions	Width (W) x Height (H) x Depth (D)		(mm)	43*81*81	43*81*81	45*48*49	45*81*81	
DC coil	Coil character	Inrush VA (at 24 V DC)	(VA)	7	7	2.4	2.4	
		Holding VA (at 24 V DC)	(VA)	7	7	2.4	2.4	
		Operating time	(ms)	45 to 49	45 to 49	22 to 24	65 to 72	
	Release time	(ms)	10 to 26	10 to 26	5 to 6	18 to 23		
		Dimensions		Width (W) x Height (H) x Depth (D)	(mm)	43*81*108	43*81*108	45*48*49
Combination characteristic BM3RS□ (standard) combination	UL508, Type F SCCR value		MMS rating: SCCR value (480VY/277V)	0.25-1.6 A: 65 kA 1.6-6.3 A : 50 kA 6.3-10 A : 25 kA	6.3-13 A: 25 kA	0.25-1.6 A: 65 kA 1.6-6.3 A : 50 kA 6.3-10 A : 25 kA 9-13 A : 10 kA	0.25-1.6 A: 65 kA 1.6-6.3 A : 50 kA 6.3-20 A : 25 kA	
	Check the catalog for the BM3RH□ (high breaking) combination.	Dimensions	BM3RS□ + AC coil contactor (mm)	45*205*102.3	45*154.9*74.7	45*185*94		
BM3RS□ + DC coil contactor (mm)			45*205*129.3	45*154.9*74.7	45*185*94			
Remarks			With base plate	Without base plate	Without base plate			
Others								

* Select SK12 or SK18 depending on the number opening and closing operations.



Attachment (2)-2 MMS Base Plate Alternatives

Alternative (2): Comparison when changing the contactor from SC-E to the SK Series

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Item			Current		Alternative*	
Combination	MMS type		BM3RS□ BM3RH□	BM3RS□ BM3RH□	BM3RS□ BM3RH□	BM3RS□ BM3RH□
	Contactor type		SC-E04	SC-E05	SK18	SK22
	Link module type	Contactor AC coil	BZ0LRE22AA	BZ0LRE22AA	BZ0LRK22AA + BZ0LRKACA	BZ0LRK22AA + BZ0LRKACA
		Contactor DC coil	BZ0LRE22GA	BZ0LRE22GA	BZ0LRK22AA	BZ0LRK22AA
Base plate type		BZ0BPRE22A	BZ0BPRE22A	No	No	

Specification			SC-E04, E04P	SC-E05, E05P	SK18	SK22		
Contactor specification	Rated insulation voltage		600 V	600 V	690 V	690 V		
	Main circuit rating	Motor load (AC-3) (AC-3/JIS rating)	200 to 240 V	3.7kW 18A	4.4kW 19A	3.7kW 18A	4.5kW 22A	
			380 to 440 V	5.5kW 13A	7.5kW 17A	7.5kW 18A	10.0kW 22A	
		Motor load (AC-3) (AC-3/IEC rating)	200 to 240 V	4.4kW 18A	5.5kW 25A	4.5kW 18A	6.5kW 22A	
			380 to 440 V	7.6kW 18A	11.0kW 25A	7.5kW 18A	11.0kW 22A	
		Resistive load (AC-1)	200 to 240 V	25A	32A	32A	32A	
			380 to 440 V	25A	32A	32A	32A	
	Durability	Mechanical	(millions of times)	1000	1000	500	500	
		Electrical (AC-3/IEC rating)	(millions of times)	150 (400 V AC)	150 (400 V AC)	100 (200 V AC)	100 (200 V AC)	
	Operating cycle	AC-3	(Times/hour)	1800	1200	1800	1800	
	Terminal screw	Main circuit		M4	M4	M4	M4	
		Control circuit		M3.5	M3.5	M3.5	M3.5	
	Auxiliary contact			None	None	1NO or 1NC	1NO or 1NC	
	Wire size			See Attachment (2)-3	See Attachment (2)-3	See Attachment (2)-3	See Attachment (2)-3	
	AC coil	Coil character	Inrush VA (at 200 V/50 Hz)	(VA)	90	90	90	90
Inrush VA (at 220 V/60 Hz)			(VA)	95	95	95	95	
Holding VA (at 200 V/50 Hz)			(VA)	9	9	9	9	
Holding VA (at 220 V/60 Hz)			(VA)	9	9	9	9	
Operating time		(ms)	9 to 20	9 to 20	9 to 20	9 to 20		
Release time		(ms)	5 to 16	5 to 16	5 to 16	5 to 16		
Dimensions		Width (W) x Height (H) x Depth (D)	(mm)	43*81*81	43*81*81	45*81*81	45*81*81	
DC coil		Coil character	Inrush VA (at 24 V DC)	(VA)	7	7	2.4	2.4
			Holding VA (at 24 V DC)	(VA)	7	7	2.4	2.4
	Operating time	(ms)	45 to 49	45 to 49	65 to 72	65 to 72		
	Release time	(ms)	10 to 26	10 to 26	18 to 23	18 to 23		
Dimensions	Width (W) x Height (H) x Depth (D)	(mm)	43*81*108	43*81*108	45*81*94	45*81*94		
Combination characteristic BM3RS□ (standard) combination	UL508, Type F SCCR value	MMS rating; SCCR value (480VY/277V)		11-20 A: 25 kA	19-25 A: 25 kA	0.25-1.6 A: 65 kA 1.6-6.3 A : 50 kA 6.3-20 A : 25 kA	0.25-1.6 A: 65 kA 1.6-6.3 A : 50 kA 6.3-25 A : 25 kA	
Check the catalog for the BM3RH□ (high breaking) combination.	Dimensions	BM3RS□ + AC coil contactor	(mm)	45*205*102.3		45*185*94		
				45*205*129.3		45*185*94		
		BM3RS□ + DC coil contactor	(mm)					
Others	Remarks		With base plate		Without base plate			

Attachment (2)-2 MMS Base Plate Alternatives

Alternative (2): Comparison when changing the contactor from SC-E to the SK Series

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Item			Current	Alternative*
Combination	MMS type		BM3RS□ BM3RH□	BM3RS□ BM3RH□
	Contactor type		SC-E1	SK32
	Link module type	Contactor AC coil	BZ0LRE32AA	BZ0LRK32AA + BZ0LRKACA
		Contactor DC coil	BZ0LRE32GA	BZ0LRK32AA
Base plate type		BZ0BPPE32A	No	

Specification			SC-E1, E1P	SK32		
Contactor specification	Rated insulation voltage		600 V	600 V		
	Main circuit rating	Motor load (AC-3) (AC-3/JIS rating)	200 to 240 V	5.5kW 26A	6.5kW 32A	
			380 to 440 V	11.1kW 25A	15.1kW 32A	
		Motor load (AC-3) (AC-3/IEC rating)	200 to 240 V	7.5kW 32A	7.5kW 32A	
			380 to 440 V	15.1kW 32A	15.1kW 32A	
	Resistive load (AC-1)	200 to 240 V	50A	40A		
		380 to 440 V	50A	40A		
	Durability	Mechanical	(millions of times)	1000	500	
		Electrical (AC-3/IEC rating)	(millions of times)	150 (400 V AC)	100 (200 V AC)	
	Operating cycle	AC-3	(Times/hour)	1200 M5	1200	
	Terminal screw	Main circuit		Box terminal for direct-wired products	M4	
		Control circuit		M3.5	M3.5	
	Auxiliary contact			None	1NO or 1NC	
	Wire size			See Attachment (2)-3	See Attachment (2)-3	
	AC coil	Coil character	Inrush VA (at 200 V/50 Hz)	(VA)	120	
Inrush VA (at 220 V/60 Hz)			(VA)	135		
Holding VA (at 200 V/50 Hz)			(VA)	12.7		
Holding VA (at 220 V/60 Hz)			(VA)	12.4		
Operating time		(ms)	10 to 17	9 to 20		
Release time		(ms)	6 to 13	5 to 16		
Dimensions	Width (W) x Height (H) x Depth (D) (mm)		54*90*96	53*81*81		
	DC coil	Coil character	Inrush VA (at 24 V DC)	(VA)	9	
Holding VA (at 24 V DC)			(VA)	9		
Operating time		(ms)	40 to 50	65 to 72		
Release time		(ms)	8 to 17	18 to 23		
Dimensions	Width (W) x Height (H) x Depth (D) (mm)		54*90*121.5	53*81*94		
	Combination characteristic BM3RS□ (standard) combination	UL508, Type F SCCR value	MMS rating: SCCR value (480VY/277V)	24-32 A: 25 kA	0.25-1.6 A: 65 kA 1.6-6.3 A : 50 kA 6.3-32 A : 25 kA	
Check the catalog for the BM3RH□ (high breaking) combination.			Dimensions	BM3RS□ + AC coil contactor (mm)	55*247*121	53*185*94
					55*247*146.5	53*185*94
Others	Remarks	BM3RS□ + DC coil contactor (mm)	With base plate	Without base plate		
			45 mm busbar not available	45 mm busbar not available		

Terminal location	Specification	Current				Alternative					
		SC-E02 to SC-E05	SC-E02P to SC-E05P	SK09 to SK12	SK18 to SK32	SC-E1	SC-E1P	SK52	SK52		
Main terminals	Screw size	M4				M4					
		1 x (Φ1.2 to 3.2)				1 x (Φ1.2 to 3.2)					
	Direct connection	Solid wire	(mm)	1 x (Φ1.2 to 2.6)				1 x (Φ1.2 to 2.6)			
				2 x (Φ1.2 to 2.6)				2 x (Φ1.2 to 2.6)			
	Wire size	Solid wire	(mm)	1 x (Φ1.2 to 1.6)				1 x (Φ1.2 to 1.6)			
				2 x (Φ1.6 to 2.0)				2 x (Φ1.6 to 2.0)			
	Wire size	Solid wire	(mm)	1 x (16 to 8)				1 x (16 to 8)			
				2 x (16 to 10)				2 x (16 to 10)			
	Wire size	Twisted wire	(mm ²)	1 x (0.75 to 6)				1 x (0.75 to 5.5)			
				2 x (1 to 4)				2 x (0.75 to 1.5)			
	Wire size	Twisted wire	(mm ²)	2 x (1.5 to 6)				2 x (1.5 to 2.5)			
				2 x (1.5 to 6)				2 x (1.5 to 2.5)			
	Wire size	Twisted wire	(mm ²)	1 x (18 to 10)				1 x (18 to 10)			
				2 x (18 to 12)				2 x (18 to 14)			
	Wire size	Twisted wire	(mm ²)	2 x (16 to 10)				2 x (16 to 14)			
2 x (16 to 10)				2 x (16 to 14)							
Crimp terminal connection	Twisted wire	(mm ²)	7 or less				7 or less				
			Not applicable				2 x (0.75 to 10)				
Wire size	Crimp terminal size	(mm)	Not applicable				9.7				
			Not applicable				7.7				
Control circuit	Screw size	M3.5				M3.5					
		1 x (Φ1.2 to 2.0)				1 x (Φ1.2 to 2.0)					
	Direct connection	Solid wire	(mm)	1 x (Φ1.2 to 1.6)				1 x (Φ1.2 to 1.6)			
				2 x (Φ1.6 to 2.0)				2 x (Φ1.6 to 2.0)			
	Wire size	Solid wire	(mm)	1 x (16 to 12)				1 x (16 to 12)			
				2 x (16 to 14)				2 x (16 to 14)			
	Wire size	Solid wire	(mm)	2 x (14 to 12)				2 x (14 to 12)			
				2 x (14 to 12)				2 x (14 to 12)			
	Wire size	Twisted wire	(mm ²)	1 x (0.75 to 2.5)				1 x (0.75 to 2.5)			
				2 x (0.75 to 1.5)				2 x (0.75 to 1.5)			
	Wire size	Twisted wire	(mm ²)	2 x (1.5 to 2.5)				2 x (1.5 to 2.5)			
				2 x (1.5 to 2.5)				2 x (1.5 to 2.5)			
	Wire size	Twisted wire	(mm ²)	1 x (18 to 14)				1 x (18 to 14)			
				2 x (18 to 16)				2 x (18 to 16)			
	Wire size	Twisted wire	(mm ²)	2 x (16 to 14)				2 x (16 to 14)			
2 x (16 to 14)				2 x (16 to 14)							
Crimp terminal connection	Solid wire	(mm ²)	7 or less				7 or less				
			2 x (0.75 to 2.5)				2 x (0.75 to 2.5)				
Wire size	Crimp terminal size	(mm)	7.7				7.7				
			7.7				7.7				