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Product Discontinuation Notices



Contactors

March 1, 2012

No. 2012076E

Discontinuation Notice of Contactors J7A(R)N series, J73 series, J7T series

Product Discontinuation Contactors

Model J7A(R)N series Model J73 series Model J7T series



OMRON have no recommended replacement Mitsubishi Electric Corp. Contactor

> SD-Q series UQ-AX2 series TH-N12 series

Discontinuation date : The end of March, 2013

Caution on recommended replacement

OMRON have no recommended replacement. Please ask Mitsubishi Electric about the details of recommended replacement.

Difference from discontinued product

Model	Body Color	Dimen sions	Wire connection	Mounting Dimensions	Charact eristics	Operation ratings	Operation methods
SD-Q series	*	*	*				*
UQ-AX2 series	*		*	-			*
TH-N12 series				-			

** : Fully compatible

* : The change is a little/Almost compatible

-- : Not compatible

- : No corresponding specification

OMRON Corporation Industrial Automation Company

Product Discontinuation and recommended replacement

Product discontinuation	Recommended replacement		
J7AN-E3 12VDC	SD-Q11 DC12V 1a		
J7AN-E3 24VDC	SD-Q11 DC24V 1a		
J7AN-E9 12VDC	SD-Q11 DC12V 1b		
J7AN-E9 24VDC	SD-Q11 DC24V 1b		
J7ARN-E9 12VDC	SD-QR11 DC12V 1b		
J7ARN-E9 24VDC	SD-QR11 DC24V 1b		
J73-11	UQ-AX2		
J73-20	No recommended replacement		
J7T-E170 12/24VDC	TH-N12 0.5 to TH-N12 1.7		
J7T-E170-1 12/24VDC	*Model is decided by a current setting range.		
J7T-E350 12/24VDC	TH-N12 0.9 to TH-N12 3.6		
J7T-E350-1 12/24VDC	*Model is decided by a current setting range.		
J7T-E700 12/24VDC	TH-N12 2.5 to TH-N12 6.6		
J7T-E700-1 12/24VDC	*Model is decided by a current setting range.		
J7T-E141 12/24VDC	TH-N12 5 to TH-N12 11		
J7T-E141-1 12/24VDC	*Model is decided by a current setting range.		

Body color

Recommended replacement			
SD-Q series: White (Surface) Black (Attachment part)			
UQ-AX2 series: White TH-N12 series: Black			

Wire connection





Mounting dimensions



Dimensions



Characteristics

Product discontinuation Model J7A(R)N series.					Rec			ole replace series	ement
ist A	norato	voltage							
		% of rated voltag	e)	8	5% max	(% of r	ate	d voltage)	
ıst re	elease	voltage							
		% of rated voltage	e)	10)% min	(% of r	ateo	l voltage)	
		mption							
0.8	W			1.	3W				
ntaa	t Datin	ac							
	t Ratin	ys		м	lain con	tact			
		carry current (1th)	15A		nventiona		r the	ermal	00.0
	AC3	Rated load	1.5kW		rent				20A
	class	3-phase 220V			3-phas			200 to 240V	12A
		1-phase	0.2kW		squirre	l-cage	Ľ	380 to 440V	9A
0		100 to 110V	0.41111	Rated	motor (AC3 c	lass)	!	500 to 550V	7A
ont		1-phase	0.4kW	ltec		e motor	+	100 to 110V	8A
Contact ratings	AC4	200 to 220V 3-phase	0.4kW	- op	(AC3 c			200 to 220V	6A
rat	class	200 to 220V	0.4KVV	Dera	Resisti	ve load	- ·	100 to 220V	10A
ting	AC1	Resistive load	15A	atic	(AC1 c	lass)		380 to 440V	10A
S	class	Resistive load	IJA	ona	DC	2 pole		24V	12A
		current		motor	series		18V	6A	
		ng current		(DC2			100 to 110V	1.2A	
		200 to 220V		Pht	class,	3 pole		24V	12A
	Minimu	m applicable		DC4 ser class)	series		18V	10A	
	load	24VAC		-	,			100 to 110V	2.5A
	Switchi	ng frequency	1800	Rated	3-phas squirre			200 to 240V 380 to 440V	2.5kW 4kW
			operations/h	ed	motor	i-caye	H	560 10 440 0	
	Electric	al durability	1,000,000	capacity	(AC3 c	lass)	!!	500 to 550V	4kW
Mag	honical	durability	operations 10,000,000	Dac		e motor		100 to 110V	0.2kW
		frequency	operations	ity	(AC3 c	lass)		200 to 220V	0.4kW
		ations/h)	operations		aking cu	rrent		220V	120A
		tion voltage	600V	· · ·	acity			140V	90A
					king current			220V	120A
					acity	0.0000000		140V	90A
				SW	itching fr	equency			1800 operations/h
				Sw	itching	1	Ele	ctrical	1,000,000
					ability				operations
					· - ,		Me	chanical	10,000,000
				Dot	od incula	ation vel	lace		operations 690V
				Rai	ted insula		laye	1	0907
				Auxi	liary cont	act			
						AC15	,	220VAC	3A
				Rat	erational	class		440VAC	1A
					rent	DC12 class		24VDC	10A
					nventiona rent			ermal	10A
				Ele	ctrical du	ırability			500,000 operations

Characteristics

Pi	roduct dis Model .	scontinu J73 serie		Rec		ble replace (2 series	ement
ontact Rati	ngs						
Contact				Contact			
Rated carry			3A	Rated	AC15	220VAC	3A
Rated opera		110V	2A	operational	class	440VAC	1A
current (AC1	class)	220V	1.5A	current	DC12	24VDC	10A
Min. load sw	ritching		5mW	current	class		
capacity				Convention	al free air th	ermal	10A
Switching fre	equency		1800	current			
	-		operations/h	Electrical du	urability		500,000
Electrical du	rability		1,000,000				operations
			operations				
Mechanical	durability		10,000,000				
	-		operations				
Min. operatir	ng current	NO	1mA 5VDC				
and voltage	-	NC	1mA 5VDC				
Pi	roduct dis Model J	scontinu J7T serie		Rec		ble replace 2 series	ement
a tings Ratings				Spec of o	perating c	ircuit (cont	act)
Rated	motor cir	cuit	660VAC	Contact for	<u> </u>		1a+1b
insulation	control c		30VAC/DC	Convention		ermal	2A
voltage		oun		current 1th			
Rated opera	te voltage		12/24VDC		AC15 class	24VAC	2A/2A
			(common)		NO/NC	110VAC	2A/2A
	10		$\overline{\mathbf{z}} = \mathbf{z} + \mathbf{z}$	1 1 1		0001/40	

1A/1A

0.5A/0.5A

0.5A 0.2A

0.1A

5mA 20V

220VAC

550VAC

24VDC 110VDC

220VDC

Rati	ngs			Spec of	operating ci	rcuit (c
Rated	Rated motor circuit		660VAC	Contact for	orm	
	insulation control circuit voltage		30VAC/DC	Conventional free air thermal current 1th		ermal
Rated	Rated operate voltage		12/24VDC (common)		AC15 class NO/NC	24VAC 110VA
Opera curren	ting circuit t	12VDC 24VDC	7.5mA(TYP.)	Rated		220VA
	Output contact circuit Rated load <u>contact form</u> NC + transfer contact		0.5A 24VDC, resistive load 0.1A 24VDC,	opera- tional current	DC13 class	24VDC 110VD 220VD
			0.1A 24VDC, L/R = 7ms 0.2A 24VAC, resistive load 0.05A 24VAC, cosφ = 0.4		Minimum apı load	-

Operation ratings

Product discontinuation

Model J7A(R)N series

Contact re	sistance	50mΩ max.		
Operate time		100ms max.		
Release time		30ms max. (NO contact)		
		60ms max. (NC contact)		
Bounce tin	ne	5ms max.		
Insulation	resistance	100MΩ min. (at 500VDC)		
Impulse w	ithstand voltage	6000V for 1.2×50µs		
Dielectric s	strength	2500VAC, 50/60Hz for 1min		
Vibration	Mechanical	10 to 55Hz		
	durability	1.5mm double amplitude		
	Malfunction	10 to 55Hz		
	durability	1.5mm double amplitude		
		(when excited and non-excited)		
Shock	Mechanical	1000m/s ²		
	durability	200m/s ²		
		(when attached to DIN rail)		
	Malfunction	100m/s ²		
	durability	(when excited and non-excited)		
Ambient te	emperature	-10°C to +55°C		
Humidity		35% to 85%RH		
Weight		Approx. 200g		
		: Model J7AN series		
		Approx. 400g		
		: Model J7ARN series		

Model J73 series

Contact resistance	30mΩ max.
Operate time	(100ms max.)
Bounce time	3ms max.
Insulation resistance	100MΩ min. (at 500VDC)
Impulse withstand voltage	1500V for 1.2×50µs
Dielectric strength	1500VAC, 50/60Hz for 1min
Ambient temperature	-10°C to +55°C
Humidity	35% to 85%RH
Weight	Approx. 20g
Note. The data shown above are initial value	es.

Recommendable replacement

SD-Q series

Operate time	50ms max.	
Release time	20ms max.	
vibration	10 to 55Hz, 19.6m/s ² max.	
Shock	49m/s ² max.	
Ambient	Standard 20°C, -10°C to +40°C	
temperature	(The average value of 24 hours per	
	day is not exceeding 35°C)	
Max. temperature	+55°C	
in control panel		
relative humidity	45% to 85%RH	
Weight	Approx. 190g : SD-Q11 series	
	Approx. 420g : SD-QR11 series	

UQ-AX2 series

Weight

Approx. 20g

Operation ratings

Product discontinuation

Model J7T series

	When operating	110% ±5%		
	105%	Non-operating		
		within 2 hours		
	120%	Hot start		
overload		Operating within 1 hour		
element	200%	Hot start		
		Operating within 2 minutes		
	600%	Cold start		
		Operating within 6 to 11		
		seconds.		
open	2-phase 100%	Non-operating		
phase	1-phase 90%	within 2 hours		
element	2-phase 115%	Operating within 1 hour		
	1-phase 0%			
	of temperature	operating value ±10%		
(-10°C to	+55°C)			
Influence	of operating	operating value ±3%		
voltage				
(10.2 to 2	6.4V)			
Influence	of Switching	operating value ±3%		
frequency	,			
(95 to 100) to 105%)			
Operate v	oltage	DC10.2 to 26.4V		
Dielectric		2500VAC for 1min		
vibration	Mechanical	10 to 55Hz		
	durability	1.5mm double amplitude		
	Malfunction	10 to 55Hz		
	durability	1.5mm double amplitude		
shock	Mechanical	200m/s ²		
	durability			
	Malfunction	100m/s ²		
	durability			
Ambient t	emperature	-10°C to +55°C		
Humidity		35% to 85%RH		
Weight		Approx. 80g		

Recommendable replacement

TH-N12 series

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Operating characteristic according to JIS C8201-4-1

Со	Condition		Operate time	
Marginal operation	A (Cold start)	1.05	Non-operating (2 hours)	
	B (follow A)	1.2	Within 2 hours	
Operation of overload	C (Hot start)	1.5	 (5) less than 2 minutes (10A) less than 2 minutes (10) less than 4 minutes (20) less than 8 minutes (30) less than 12 minutes 	
Operation of restraint	D (Cold start)	7.2	(5) Tp ≤ 5 seconds (10A) 2 < Tp ≤ 10 seconds (10) 4 < TP ≤ 10 seconds (20) 6 < TP ≤ 20 seconds (30) 9< TP ≤ 30 seconds	
Non-	A	2-pole 1.0	Non-operating	
operating	(Cold start)	1-pole 0.9	(2 hours) Within 2 hours	
Operation	B (follow A)	2-pole 1.15 1-pole 0	within 2 nours	
Ambient ter			D°C (Standard	
		20°C, Max. temperature in control panel + 55°C)		
Weight		Approx. 110	/	

Operation methods

Product discontinuation	Recommendable replacement
Model J7A(R)N series	SD-Q series
Input the rated voltage to coil.	Input the rated voltage to coil.
Model J73 series	UQ-AX2 series
Attached to Model J7AN series or J7ARN series.	Attached to SD-Q series or SD-QR series.
	TH-N12 series
Model J7T series Attached to Model J7AN series or J7ARN series. Input the rated voltage to coil.	Attached to SD-Q series or SD-QR series.