

Low Voltage Switch Gear

SELECTION GUIDE



Advanced Industrial Automation

OMRON

Mini-Contactors

Contactors



Ratings

AC1 up to 690V at 40°C	A	10	10	10	20	20	25	25	32	32
Motor AC3										
up to 400 V	A	-	-	-	9	12	10	14	18	22
380-415V	kW	-	-	-	4	5,5	4	5,5	7,5	11
660-690V	kW	-	-	-	4	5,5	5,5	7,5	10	10

Type		J7KNA-AR-40*	J7KNA-AR-31*	J7KNA-AR-22*	J7KNA-09-10*	J7KNA-12-10*	J7KN-10-10*	J7KN-14-10*	J7KN-18-10*	J7KN-22-10*
integrated aux. contacts		4NO	3NO + 1NC	2NO + 2NC	1NO	1NO	1NO	1NO	1NO	1NO

Type		J7KNA-09-01*				J7KNA-12-01*	J7KN-10-01*	J7KN-14-01*	J7KN-18-01*	J7KN-22-01*
integrated aux. contacts		1NC				1NC	1NC	1NC	1NC	1NC

AC operated

* Coil code
other voltages available

* Coil voltage:	code
24V 50/60Hz	24
200-230V 50Hz, 240V 60Hz	230
380-400V 50Hz, 440V 60Hz	400

* Coil voltage:	code
24V 50/60Hz	24
110V 50Hz, 110-120V 60Hz	110
200-240V 50Hz, 240V 60Hz	230
380-415V 50Hz, 415-440V 60Hz	400

DC operated

* Coil code
other voltages available

* Coil voltage:	code
24V DC	24D
48 V DC	48D
110 V DC	110D

Cable cross-section

Solid or stranded	mm ²	0,5 - 2,5	0,5 - 2,5	0,75 - 6
Flexible	mm ²	0,5 - 2,5	0,5 - 2,5	1 - 4
Cables par clamp		2	2	2

Auxiliaire contact I _{th}	A	10	10	16
AC15 at 230V	A	3	3	12

Power consumption of coils

AC-operated	Inrush VA	25	25	33 - 45
	sealed VA	4 - 5	4 - 5	7 - 10
DC-operated	Inrush W	2,5	2,5	75
	sealed W	2,5	2,5	2
Operation range of coils		0,85 - 1,1	0,85 - 1,1	0,85 - 1,1

Mounting

35mm DIN-rail or base

Additional aux. contact blocks

Type
contacts:

for J7KNA-AR_ , J7KNA-_01		for J7KNA-_10	
J73KN-A-11	J73KN-A-02	J73KN-AM-11	J73KN-AM-02
1NO + 1NC	2NC	1NO + 1NC	2NC
J73KN-A-40	J73KN-A-22	J73KN-AM-22	
4NO	2NO + 2NC	2NO + 2NC	
10A I _{th}	max. 1 J73KN-_		



J73KN-B-10
1NO
low level
switching



J73KN-B-01
1NC
low level
switching

10A I_{th} max. 4 J73KN-B

Overload Relay

Single phanse protection
Temperature compensation
Trip and alarm contacts
Hand + Auto Reset



Type	-	J7TKN-A-	J7TKN-B-
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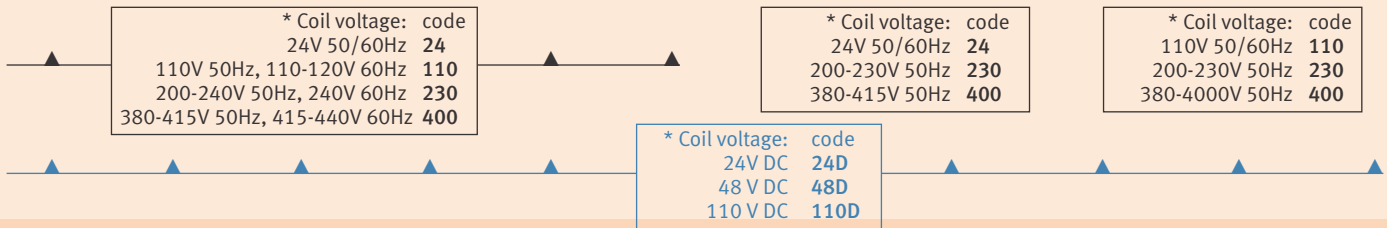
Setting Ranges

Setting Ranges

0,12 - 0,18A	2,7 - 4A	0,12 - 0,18A	2,7 - 4A
0,18 - 0,27A	4 - 6A	0,18 - 0,27A	4 - 6A
0,27 - 0,40A	6 - 9A	0,27 - 0,4A	6 - 9A
0,4 - 0,60A	8 - 11A	0,4 - 0,6A	8 - 11A
0,6 - 0,90A	10 - 14A	0,6 - 0,9A	10 - 14A
0,8 - 1,20A	13 - 18A	0,8 - 1,2A	13 - 18A
1,2 - 1,80A		1,2 - 1,8A	17 - 24A
1,8 - 2,70A		1,8 - 2,7A	23 - 32A



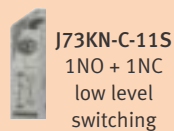
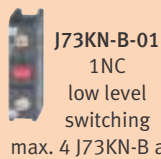
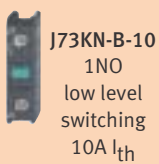
50A	65A	80A	110A	120A	130A	150A	170A	200A	250A	350A
24	32	40	50	62	74	85	110	150	175	210
11	15	18,5	22	30	37	45	55	75	90	110
15	18,5	18,5	30	37	45	55	55	75	110	132
J7KN-24*	J7KN-32*	J7KN-40*	J7KN-50*	J7KN-62*	J7KN-74*	J7KN-85-22*	J7KN-110-22*	J7KN-150-11*	J7KN-175-11*	J7KN-200-22*
-	-	-	-	-	-	2NO+2NC	2NO+2NC	1NO+1NC	1NO+1NC	2NO+2NC



1,5 - 25	4 - 50	10-70	10-70	busbar	busbar	busbar
2,5 - 16	10 -35	6 - 50	6 - 50	18x5	18x5	22x4
1 + 1	1 + 1	1	1	1	1	1
-	-	16	16	10	10	16
-	-	12	12	3	3	3
90 - 115	140 - 165	280-350	350 - 420	550	550	1100
9 - 13	13 - 18	16-23	23 - 29	130	130	66
140	200	170	320	160	160	530
2	6	2	4	5	5	21
0,85 - 1,1	0,85 - 1,1	0,85 - 1,1	0,85 - 1,1	0,85 - 1,1	0,85 - 1,1	0,85 - 1,1

35mm DIN-rail or base

Base



J7TKN-C_
Setting Ranges

28 - 42A



J7TKN-D_
Setting Ranges

40 - 52A
52 - 65A
60 - 74A



J7TKN-E_
Setting Ranges

60 - 90A
80 - 120A



J7TKN-F_
Setting Ranges

100 - 150A
140 - 220A

Busbar sets

J73TK-SU-175 J73TK-SU-175 J73TK-SU-200

Motor Protection Circuit Breaker



Setting range		for Motor 3x400V kW	12A	25A	50A	100A
A	A					
0,11 – 0,16		-	J7MN-12-E16	J7MN-25-E16		
0,14 – 0,2		-	J7MN-12-E2	J7MN-25-E2		
0,18 – 0,25		0,06	J7MN-12-E25	J7MN-25-E25		
0,22 – 0,32		0,09	J7MN-12-E32	J7MN-25-E32		
-						
0,28 – 0,4		-	J7MN-12-E4	J7MN-25-E4		
0,35 – 0,5		0,12	J7MN-12-E5	J7MN-25-E5		
0,45 – 0,63		0,18	J7MN-12-E63	J7MN-25-E63		
0,55 – 0,8		-	J7MN-12-E8	J7MN-25-E8		
-						
0,70 – 1		0,25	J7MN-12-1	J7MN-25-1		
0,90 – 1,25		0,37	J7MN-12-1E25	J7MN-25-1E25		
1,10 – 1,6		0,55	J7MN-12-1E6	J7MN-25-1E6		
1,40 – 2		0,75	J7MN-12-2	J7MN-25-2		
-						
1,80 – 2,5		-	J7MN-12-2E5	J7MN-25-2E5		
2,20 – 3,2		1,1	J7MN-12-3E2	J7MN-25-3E2		
2,80 – 4		1,5	J7MN-12-4	J7MN-25-4		
3,50 – 5		-	J7MN-12-5	J7MN-25-5		
-						
4,50 – 6,3		2,2	J7MN-12-6E3	J7MN-25-6E3		
5,50 – 8		3	J7MN-12-8	J7MN-25-8		
7,00 – 10		4	J7MN-12-10	J7MN-25-10		
9,00 – 12(,5)		5,5	J7MN-12-12	J7MN-25-12E5		
-						
11 – 16		7,5		J7MN-25-16		
14 – 20		-		J7MN-25-20		
17 – 22		-		J7MN-25-22		
18 (20) – 25		11		J7MN-25-25	J7MN-50-25	
-						
22 – 32		15			J7MN-50-32	
28 – 40		18,5			J7MN-50-40	
36 – 45		-			J7MN-50-45	
40 – 50		22			J7MN-50-50	
-						
45 – 63		30				J7MN-100-63
57 – 75		37				J7MN-100-75
70 – 90		-				J7MN-100-90
80 – 100		45				J7MN-100-100

Add. Aux Contact
Front mounting
max. 1pc per circuit breaker

Type
contacts



J73MN-11F
1NO+1NC
I_{th} 10A

Signaling Switch
Left hand side mounting
max. 1pc per circuit breaker

Type
contacts



J73MN-T-11S
1NO+1NC

Add. Aux Contact
Left hand side mounting
max. 1pc per circuit breaker

Type
contacts



J73MN-11S
1NO+1NC
I_{th} 10A

Undervoltage Release
Right hand side mounting
max. 1pc per circuit breaker

Type
voltage



J74MN-U-N1
230V 50Hz
240V 60Hz

Shunt Release
Right hand side mounting
max. 1pc per circuit breaker

Type
voltage



J74MN-S-N2
210-240V 50/60Hz

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