Motor Contactor
J7KN

Main contactor

- AC & DC operated
- Integrated auxiliary contacts
- Screw fixing and snap fitting (35 mm DIN rail) up to 37 kW
- Range from 4 to 110 kW (AC 3, 380/415V)
- Finger proof (BGV A2)
- System contactors for Fuseless Load Feeders with integrated link module

Accessories

- front mounted single pole additional auxiliary contacts (1 NO or 1 NC)
- Side mounted additional auxiliary contacts (1 NO/1 NC)
- Mechanical interlock
- Suppressors (RC and varistor)
- Pneumatic timer modules
- Link modules MPCB - Motor contactor

Approved Standards

Standard	Guide No (US,C)
UL	NLDX, NLDX7
IEC 947-4-1	see page 95
VDE 0660	
EN 60947-4-1	

Ordering Information

■ Model Number Legend

1. Motor Contactors

J7KN□-□□□-□□-□□□□
1 2 3 4 5

1) Motor Contactor
2) G: DC solenoid motor contactor
3) Rated Motor Current (AC3 400V)
10: 10A
14: 14A
18: 18A
22: 22A
24: 24A
32: 32A
40: 40A
50: 50A
62: 62A
74: 74A
85: 85A
110: 110A
151: 150A
176: 175A
200: 200A
4) Integrated auxiliary contact
10: 1NO 0NC
01: 0NO 1NC
21: 2NO 1NC
22: 2NO 2NC
: 0NO 0NC
4: 4 main poles
5) Coil voltage (AC operated)
24: AC24V 50/60Hz
48: AC48V 50Hz
90: AC100V 50/60 Hz
110: AC110V 50Hz, AC110-120V 60Hz
180: AC180-210V 50Hz, AC200-240V 60Hz
230: AC220-240V 50Hz, AC240V 60Hz
400: AC380-415V 50Hz, AC415-440V 60Hz
500: AC500-550V 50Hz, AC550-600V 60Hz

Coil voltage(DC operated)
24D: DC24V
48D: DC48V
110D: DC110V
125D: DC125V

Coil voltage(DC solenoid operated - G-type)
24D: DC24V
48D: DC48V
60D: DC60V
110D: DC110V
125D: DC125V
220D: DC220V

Coil voltage(AC & DC operated) for J7KN 151 & J7KN 176 only
24: 24V 50/60Hz, 24VDC
48: 48V 50/60Hz, 48VDC
110: 110-120V 50/60Hz, 110VDC
230: 220-240V 50/60Hz, 220VDC
400: 380-415V 50/60Hz

2. Sytem Contactors for Fuseless Load Feeders with integrated Link Module

J7KN-□□□-□□-□□□-VK3
1 2 3 4 5

1) Additional reference for LVSG
2) Rated Motor Current (AC 3 400 V)
10: 10 A
14: 14 A
18: 18 A
22: 22 A
3) Integrated Auxiliary Contact
10: 1NO 0NC
01: 0NO 1NC
4) Coil voltage (AC operated)
24: AC24V 50/60Hz
48: AC48V 50Hz
110: AC110V 50Hz, AC110-120V 60Hz
180: AC180-210V 50Hz, AC200-240V 60Hz
230: AC220-240V 50Hz, AC240V 60Hz
400: AC380-415V 50Hz, AC415-440V 60Hz
500: AC500-550V 50Hz, AC550-600V 60Hz
5) Attached link module VK 3

3. Aux. Contact Modules for Motor Contactors

J73KN-□-□□-□
1 2 3 4

1) Auxiliary Contact Modules
2) B: for motor contactor (4-37kW)
C: for motor contactor (11-37kW)
D: for motor contactor (75-90kW)
E: for motor contactor (110kW)
3) Combination of NO/NC contacts
10: 1NO 0NC
01: 0NO 1NC
11: 1NO 1NC
22: 2NO 2NC
4) S: side mounting for motor contactor (11-37kW and 75-90 kW)
: front mounting for motor contactor (4-37kW)
A: 6A version
F: front mounting for motor contactor (75-90kW)
U: EM and LB version

4. Accessories for Motor Contactors (Pneumatic Timers)

J74KN-□-□□ □□□ □□
1 2 3 4 5

1) Accessories for Motor Contactors
2) B: Motor Contactor (4-18.5kW)
3) TP: Pneumatic Timer
4) 40: 40 sec
180: 180 sec
5) DA: ON-delayed
IA: OFF-delayed

5. Accessories for Motor Contactors (Mechanical Interlock)

J74KN-□-□□
1 2 3

1) Accessories for Motor Contactors
2) B: Motor Contactor (4-18.5kW)
C: Motor Contactor (11-37kW)
D: Motor Contactor (45-55kW)
E: Motor Contactor (75-90kW)
3) ML: Mechanical Interlock

6. Accessories for Motor Contactors (RC Suppressor units)

J74KN-□-□□ □□□
1 2 3 4

1) Accessories for Motor Contactors
2) A: for Mini Motor Contactor and Motor Contactor (4-18.5kW) (between DIN-rail and Contactor)
   B: for Mini Motor Contactor and Motor Contactor (4-55kW)
   C: for Motor Contactor (4-37kW) to snap on the contactor
   D: for Mini Motor Contactor (4-5.5kW)
3) RC: RC-surge suppressors
4) 48: 24 - 48 VAC/DC (A+B type)
   230: 110 - 230 VAC/DC (A+B type)
   400: 250 - 415 VAC/DC (A+B type)
   24: 12 - 48 VAC/DC (C+D type)
   110: 48 - 127 VAC/DC (C+D type)
   230: 110 - 250 VAC/DC (C+D type)

7. Accessories for Motor Contactors (4-37 kW) (Varistor units)

J74KN-□-□□ □□□
1 2 3 4

1) Accessories for Motor Contactors
2) A: for Motor Contactor (4-11kW) to snap on to coil terminals
   B: for Motor Contactor (4-37kW) to snap on to contactor
3) VG: Varistor Suppressors
4) 230: 110-230VAC/DC
   400: 250-415VAC/DC

8. Accessories for Motor Contactors (Additional Terminals and Terminal Covers)

J7KN-□□□□□□□
1 2

1) Accessories for Motor Contactors
2) LG-9030: for Motor Contactors (22-37 kW) Additional Terminal for Single Pole
   LG-11224: for Motor Contactors (75-90 kW) Additional Terminal for Single Pole
   LG-10404: for Motor Contactors (75-90 kW) Terminal Cover for 3 terminals
   Marking Systems for contactors J7KNA - J7KN 74 and aux. contact blocks J73KN-B
   P487-1: Marking plate, 2-section without marking, divisible
   P245-1: Marking plate, 4-section without marking, divisible

9. Insulated wiring systems for motor contactors

Parallel or reverse contactors

Star-Delta contactors

J75-WK-□□
1 2 3

1) Additional reference for LVSG
2) Wiring system
3) Combination of 2 contactors, type:
   21 = J7KN 10 - ..22
   41 = J7KN 24 - ..40

   Star - delta combination of 3 contactors, type:
   22 = J7KN 10 - ..22

■ List of Models

Contactors 3-pole

- Up to 210A AC3
- Up to 350A AC1
- DIN-rail mounting up to AC3 74A
- International Approvals
- Data according to IEC 947 / EN 60947



Ratings											
AC3	**400V Motor**	**10A**	**14A**	**18A**	**22A**	**24A**	**32A**	**40A**	**50A**	**62A**	**74A**
	380-400V	**4kW**	**5,5kW**	**7,5kW**	**11kW**	**11kW**	**15kW**	**18,5kW**	**22kW**	**30kW**	**37kW**
	660-690V	5,5kW	7,5kW	10kW	10kW	15kW	18,5kW	18,5kW	30kW	37kW	45kW
AC1	690V at 40°C	25A	25A	32A	32A	50A	65A	80A	110A	120A	130A
Type		**J7KN-10-10**	**J7KN-14-10**	**J7KN-18-10**	**J7KN-22-10**	**J7KN-24**	**J7KN-32**	**J7KN-40**	**J7KN-50**	**J7KN-62**	**J7KN-74**
Auxiliary contacts		1NO	1NO	1NO	1NO	-	-	-	-	-	-
Type		**J7KN-10-01**	**J7KN-14-01**	**J7KN-18-01**	**J7KN-22-01**	-	-	-	-	-	-
Auxiliary contacts		1NC	1NC	1NC	1NC	-	-	-	-	-	-
Cable cross-section											
Solid	mm^2	0,75 - 6				1,5 - 25			4 - 50		
Flexible	mm^2	1 - 4				2,5 - 16			10 - 35		
Cables per clamp		2				1 + 1			1 + 1		
Auxiliary contact											
I_{th}	40°C A	16				-			-		
AC15	230V A	12				-			-		
	400V A	4				-			-		
Power consumption of coils											
	Inrush VA	33 - 45				90 - 115			140 - 165		
	Hold VA	7 - 10				9 - 13			13 - 18		
	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											
Front mounting contact configuration		 1NO					 1NC				
		maximal 4 J73KN-B..									
Additional aux. contact blocks											
Side mounting contact configuration		-				 1NO+1NC					
Overload Relay (thermal)											
Single phase protection Temperature compensation Trip and alarm contacts											
	Type	J7TKN-B				J7TKN-C			J7TKN-D		
		Setting Ranges				Setting Ranges			Setting Ranges		
		0,12 - 0,18A	4 - 6A			28 - 42A			40 - 52A		
		0,18 - 0,27A	6 - 9A						52 - 65A		
		0,27 - 0,4A	8 - 11A						60 - 74A		
		0,4 - 0,6A	10 - 14A								
		0,6 - 0,9A	13 - 18A								
		0,8 - 1,2A	17 - 24A								
		1,2 - 1,8A	23 - 32A								
		1,8 - 2,7A									
		2,7 - 4A									



Ratings						
AC3	**400V Motor**	**85A**	**110A**	**150A**	**175A**	**210A**
	380-400V	**45kW**	**55kW**	**75kW**	**90kW**	**110kW**
	660-690V	55kW	55kW	75kW	110kW	132kW
AC1	690V at 40°C	150A	170A	230A	250A	350A
Type		**J7KN-85-22**	**J7KN-110-22**	**J7KN-151**	**J7KN-176**	**J7KN-200-21**
Auxiliary contacts		2NO+2NC	2NO+2NC	-	-	2NO+1NC
Type		-	-	-	-	-
Auxiliary contacts		-	-	-	-	-
Cable cross-section						
Solid	mm^2	10 - 70	10 - 70	busbar	busbar	busbar
Flexible	mm^2	16 - 50	16 - 50	18x4	18x4	22x4
Cables per clamp		1	1	1	1	1
Auxiliary contact						
I_{th}	40°C A	16		10		
AC15	230V A	12		3		
	400V A	6		2		
Power consumption of coils						
	Inrush VA	350 - 420		350	350	700
	hold VA	23 - 29		5	5	20
	Operation range of coils	0,85 - 1,1		0,85 - 1,1		
Mounting		base				
Additional aux. contact blocks						
Front mounting contact configuration		-		2NO + 2NC		
Additional aux. contact blocks						
Side mounting contact configuration		-		1NO + 1NC		-
Overload Relay (thermal)						
Single phase protection Temperature compensation Trip and alarm contacts						
	Type	J7TKN-E		J7TKN-F		
		Setting Ranges		Setting Ranges		
		60 - 90A		100 - 150A		
		80 - 120A		140 - 220A		
Busbar Sets						
				J74TK-SU-176		J74TK-SU-200

Contactors 3-pole

	Ratings			Rated Current	AC Operated Aux. Contacts			Type	Pack	Weight
	AC2, AC3			AC1	Built-in		Additional			
	380V **400V** **415V**	500V	660V 690V	690V			see *page 33*	Coil Voltage[*1] **24** 24V 50/60Hz **110** 110V 50Hz		
	kW	kW	kW	A	NO	NC	Type	**230** 220-240V 50Hz	pcs.	kg/pc.
	**4**	5.5	5.5	25	1	-	max. 4 J73KN-B	**J7KN-10-10**□□□	1	0.23
	4	5.5	5.5	25	-	1		**J7KN-10-01**□□□	1	0.23
	5.5	7.5	7.5	25	1	-		**J7KN-14-10**□□□	1	0.23
	5.5	7.5	7.5	25	-	1		**J7KN-14-01**□□□	1	0.23
	7.5	10	10	32	1	-		**J7KN-18-10**□□□	1	0.23
	7.5	10	10	32	-	1		**J7KN-18-01**□□□	1	0.23
	11	10	10	32	1	-		**J7KN-22-10**□□□	1	0.23
	11	10	10	32	-	1		**J7KN-22-01**□□□	1	0.23
	**4**	5.5	5.5	25	-	-	-	**-**	-	-
	4	5.5	5.5	25						
	5.5	7.5	7.5	25						
	5.5	7.5	7.5	25						
	7.5	10	10	32						
	7.5	10	10	32						
	11	10	10	32						
	11	10	10	32						
	**11**	15	15	50	-	-	max. 4 J73KN-B + 2 J73KN-C-11S	**J7KN-24**□□□	1	0.48
	15	18.5	18.5	65	-	-		**J7KN-32**□□□	1	0.48
	18.5	18.5	18.5	80	.	-		**J7KN-40**□□□	1	0.48
	**22**	30	30	110	-	-	max. 4 J73KN-B + 2 J73KN-C11S	**J7KN-50**□□□	1	0.85
	30	37	37	120	-	-		**J7KN-62**□□□	1	0.85
	37	45	45	130	-	-		**J7KN-74**□□□	1	0.85
	Ratings			Rated Current	Aux. Contacts			**Type**	Pack	Weight
	AC2, AC3			AC1	Built-in					
	380V **415V**	500V	660V 690V	690V				Coil Voltage[*1] **230** 220-230V 50Hz		
	kW	kW	kW	A	NO	NC		**400** 380-400V 50Hz	pcs.	kg/pc.
	**45**	55	55	150	2	2		**J7KN-85-22**□□□	1	1.8
	55	75	55	170	2	2		**J7KN-110-22**□□□	1	1.9
	**75**	75	75	230	-	-	max. 3 1 x J73KN-D22F or 1 x J73KN-D11F and 2 x J73KN-D11S	**J7KN-151**□□□[*2]	1	4
	90	90	90	250	-	-		**J7KN-176**□□□[*2]	1	4
	**110**	132	132	350	2	1	J73KN-E-22	**J7KN-200-21**□□□[*2]	1	7.3

[*1] Coil voltage range and other coil voltages see *page 36*
[*2] AC and DC in one coil

DC Operated

Aux. Contacts see *page 33*			**Type**	Coil voltage	Pack	Weight	Accept Overload Relay	Busbar Set for Overload Relay	Wiring Diagram
Built-in		Additional		**24** 24V DC **48** 48V DC **60** 60V DC **110** 110V DC **125** 125V DC			*page 56*	*page 57*	Coil Circuits see *page 35*
NO	NC	Type		**220** 220V DC	pcs	kg/pc.	Type	Type	Terminal Markings
1	-	max. 3 J73KN-B[*1]	**J7KN-10-10□□□D**		1	0.25	J7TKN-B	-	-10
-	1		**J7KN-10-01□□□D**		1	0.25		-	
1	-		**J7KN-14-10□□□D**		1	0.25		-	
-	1		**J7KN-14-01□□□D**		1	0.25		-	
1	-		**J7KN-18-10□□□D**		1	0.25		-	-01
-	1		**J7KN-18-01□□□D**		1	0.25		-	
1	-		**J7KN-22-10□□□D**		1	0.25		-	
-	1		**J7KN-22-01□□□D**		1	0.25		-	
1	-	max. 4 J73KN-B	**J7KNG-10-10□□□D**		1	0.53	J7TKN-B	-	-10
-	1		**J7KNG-10-01□□□D**		1	0.53		-	
1	-		**J7KNG-14-10□□□D**		1	0.53		-	
-	1		**J7KNG-14-01□□□D**		1	0.53		-	
1	-		**J7KNG-18-10□□□D**		1	0.53		-	-01
-	1		**J7KNG-18-01□□□D**		1	0.53		-	
1	-		**J7KNG-22-10□□□D**		1	0.53		-	
-	1		**J7KNG-22-01□□□D**		1	0.53		-	
-	-	max. 3 J73KN-B[*1] + 2 J73KN-C-11S	**J7KN-24□□□D**		1	0.55	J7TKN-B J7TKN-C	-	
-	-		**J7KNG-24□□□D**		1	0.57		-	
-	-		**J7KN-32□□□D**		1	0.55		-	
-	-		**J7KNG-32□□□D**		1	0.57		-	
-	-		**J7KN-40□□□D**		1	0.55		-	
-	-		**J7KNG-40□□□D**		1	0.57		-	
-	-	max. 3 J73KN-B[*1] + 2 J73KN-C-11S	**J7KN-50□□□D**		1	0.9	J7TKN-D		
-	-		**J7KN-62□□□D**		1	0.9			
-	-		**J7KN-74□□□D**		1	0.9			

Aux. Contacts			**Type**	Coil voltage		Weight	Accept Overload Relay	Busbar Set for Overload Relay	
Built-in							*page 56*	*page 57*	
NO	NC			**110** 110V DC **220** 220V DC		kg/pc.	Type	Type	
2	1	-	**J7KN-85-21□□□D**		1	1.8	J7TKN-E		-21/-22
2	1	-	**J7KN-110-21□□□D**		1	1.9			
-	-	max. 3 1 x J73KN-D22 or 1 x J73KN-D11 and 2 x J73KN-D11S	**J7KN-151-□□□**[*2]		1	4	J7TKN-F	J73TK-SU-176	
			J7KN-176-□□□[*2]		1	4	J7TKN-F		
2	1		**J7KN-200-21□□□**[*2]		1	7.3	J7TKN-F	J73TK-SU-200	-21

[*1] Only 3 additional Aux. Contacts are possible! (See also the wiring diagrammms coil circuit DC operated *page 35*)
[*2] AC and DC in one coil

System Contactors for Fuseless Load Feeders with integrated Link Module (see *page 72*)

AC Operated

	Ratings			Rated Current	Aux. Contacts			Type		Pack	Weight
	AC2, AC3			AC1	Built-in		Additional				
	380V **400V** **415V**	500V	660V 690V	690V			see *page 33*		Coil Voltage[*1]		
	kW	kW	kW	A	NO	NC	Type			pcs.	kg/pc.
	**4**	5.5	5.5	25	1	-	max. 4 J73KN-B	**J7KN-10-10 □□□-VK3**	**24** 24V 50/60Hz	1	0.25
	5.5	7.5	7.5	25	1	-		**J7KN-14-10 □□□-VK3**	**110** 110V 50Hz	1	0.25
	7.5	10	10	32	1	-		**J7KN-18-10 □□□-VK3**	**230** 220-240V 50Hz	1	0.25
	11	10	10	32	1	-		**J7KN-22-10 □□□-VK3**		1	0.25

[*1] Coil voltage range and other coil voltages see *page 36*

Contactors 4-pole

AC Operated

	Ratings		Rated Current	Aux. Contacts see *page 33*			Type		Pack	Weight
	AC2, AC3	AC1	AC1	Built-in		Additional				
	380V **400V** **415V**	400V	690V			see below		Coil Voltage[*1]		
	kW	kW	A	NO	NC	Type			pcs.	kg/pc.
	**4**	17.5	25	-	-	max. 4 J73KN-B	**J7KN-10-4 □□□**	**24** 24V 50/60Hz	1	0.22
	5.5	17.5	25	-	-		**J7KN-14-4 □□□**	**110** 110V 50Hz	1	0.22
	7.5	22	32	-	-		**J7KN-18-4 □□□**	**230** 220-240V 50Hz	1	0.22
	11	22	32	-	-		**J7KN-22-4 □□□**		1	0.22
	**75**	159	230	-	-	max. 3 J73KN-D-11F J73KN-D-22F J73KN-D-11S	**J7KN-151-4 □□□**		1	4.7
	90	173	250	-	-		**J7KN-176-4 □□□**		1	4.7

[*1] Coil voltage range and other coil voltages see *page 36*

DC Operated

	Ratings		Rated Current	Aux. Contacts see *page 33*			Type		Pack	Weight
	AC2, AC3	AC1	AC1	Built-in		Additional				
	380V **400V** **415V**	400V	690V			see below		Coil Voltage[*1]		
	kW	kW	A	NO	NC	Type			pcs.	kg/pc.
	**4**	17.5	25	-	-	max. 4 J73KN-B	**J7KNG-10-4 □□□D**	**24** 24V 50/60Hz	1	0.53
	5.5	17.5	25	-	-		**J7KNG-14-4 □□□D**	**110** 110V 50Hz	1	0.53
	7.5	22	32	-	-		**J7KNG-18-4 □□□D**	**230** 220-240V 50Hz	1	0.53
	11	22	32	-	-		**J7KNG-22-4 □□□D**		1	0.53

[*1] Coil voltage range and other coil voltages see *page 36*

Auxiliary Contact Blocks for contactors J7KN-10... to -74... type J73KN for low level switching[*1]

Front mounting	Rated Operational Current AC15 230V A	AC15 400V A	AC1 690V A	Contacts NO	NC	EM	LB	Type	Pack pcs.	Weight kg/pc.
	3	2	10	1	-	-	-	**J73KN-B-10**	10	0.02
	3	2	10	-	1	-	-	**J73KN-B-01**	10	0.02
	3	2	10	-	-	1	-	**J73KN-B-10U**	10	0.02
	3	2	10	-	-	-	1	**J73KN-B-01U**	10	0.02
	6	4	25	1	-	-	-	**J73KN-B-10A**	10	0.02
	6	4	25	-	1	-	-	**J73KN-B-01A**	10	0.02

Auxiliary Contact Blocks for contactors J7KN-151... to 176... type J73KN for low level switching

	Rated Operational Current AC15 230V A	AC15 400V A	AC1 690V A	Mounting	Contacts NO	NC	Type	Pack pcs.	Weight kg/pc.
	3	2	10	front	1	1	**J73KN-D-11F**	1	0.08
	3	2	10		2	2	**J73KN-D-22F**	1	0.08
	3	2	10	side	1	1	**J73KN-D-11S**	1	0.12

Auxiliary Contact Blocks
for contactors J7KN-24... to KN-74 and J7KN-200... type J73KN for low level switching

	Rated Operational Current AC15 230V A	AC15 400V A	AC1 690V A	Mounting	Contacts NO	NC	Type	Pack pcs.	Weight kg/pc.
	3	2	10	max. 2 side mounting (J7KN-24-74)	1	1	**J73KN-C-11S**	10	0.02
	3	2	10	max. 2 front mounting (J7KN-200)	2	2	**J73KN-E-22**	1	0.12

Pneumatic Timer for contactors J7KN-10... to -40...

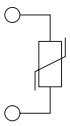
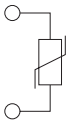
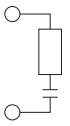
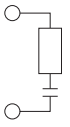
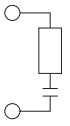
	Function	Time range s	Contacts NO	NC	NO	NC	Type	Pack pcs.	Weight kg/pc.
	On-delay	0.1 - 40	1	1	-	-	**J74KN-B-TP40DA**	1	0.09
	On-delay	10 - 180	1	1	-	-	**J74KN-B-TP180DA**	1	0.09
	Off-delay	0.1 - 40	-	-	1	1	**J74KN-B-TP40IA**	1	0.09
	Off-delay	10 - 180	-	-	1	1	**J74KN-B-TP180IA**	1	0.09

Mechanical Interlocks

	Interlocks contactor with contactor Type	+	Type	Mounting	Type	Pack pcs.	Weight kg/pc.
	J7KN10 - J7KN40	+	J7KN10 - J7KN40	horizontal	**J74KN-B-ML**	1	0.006
	J7KN24 - J7KN74	+	J7KN24 - J7KN74	horizontal	**J74KN-C-ML**	1	0.010
	J7KN85 - J7KN110	+	J7KN85 - J7KN110	horizontal	**J74KN-D-ML**	1	0.076
	J7KN151 - J7KN176	+	J7KN151 - J7KN176	horizontal	**J74KN-E-ML**	1	0.076

1. suitable according to DIN 19240 (test ratings 17V DC, 5mA) Technical data see *page 49*

Suppressor Units

		Suitable for Contactors	Suitable for Coil Voltages	Type	Pack pcs.	Weight kg/pc.
 	Varistor snap on coil terminals	J7KNA J7KN10-J7KN22	110 - 230 V AC/DC 250 - 415 V AC/DC	**J74KN-A-VG230** **J74KN-A-VG400**	10 10	0.01 0.01
 	Varistor snap on top of contactor	J7KN10-J7KN74	110 - 230 V AC/DC 250 - 415 V AC/DC	**J74KN-B-VG230** **J74KN-B-VG400**	10 10	0.02 0.02
 	RC-Unit snap on contactor	J7KNA	12 - 48 V AC/DC 48 - 127 V AC/DC 110 - 230 V AC/DC	**J74KN-D-RC24** **J74KN-D-RC110** **J74KN-D-RC230**	10 10 10	0.02 0.036 0.036
 	RC-Unit snap on contactor	J7KN10-J7KN74	12 - 48 V AC/DC 48 - 127 V AC/DC 110 - 230 V AC/DC	**J74KN-C-RC24** **J74KN-C-RC110** **J74KN-C-RC230**	10 10 10	0.02 0.036 0.036
 	RC-Unit to fix via fixing band or adhesive strip with contactor	J7KN85-J7KN110	24 - 48 V AC/DC 110- 250 V AC/DC 250 - 415 V AC/DC	**J74KN-B-RC48** **J74KN-B-RC230** **J74KN-B-RC400**	5 5 5	0.04 0.04 0.04

Additional Terminals Single Pole

	For Contactors	Cable Cross-sections to clamp mm²			Type	Pack pcs.	Weight kg/pc.
		solid or stranded	flexible	flex. with multi-core cable end			
	J7KN50 - KN74	4 - 35	6 - 25	4 - 25	**J74KN-LG-9030**	1	0.052
	J7KN151 - KN176	16 - 120	---	16 - 95	**J74KN-LG-11224**		

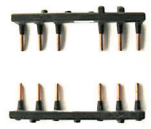
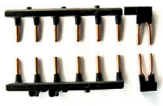
Terminal Covers for terminal protection according DIN 57106, BVG-A2

	For Contactors	Specification	Type	Pack pcs.	Weight kg/pc.
	J7KN151 - KN176	one unit	**J74KN-LG-10404**	1	0.12

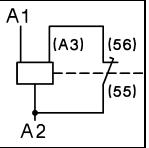
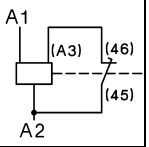
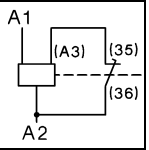
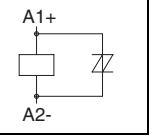
Marking Systems for contactors J7KNA to J7KN74 and aux. contact blocks J73KN-B

	Description	Specification	Type	Pack pcs.	Weight kg/pc.
	Marking Plate	2-section without marking, divisible	**J74KN-P487-1**	100	0.025
	Marking Plate	4-section without marking, divisible	**J74KN-P245-1**	100	0.050

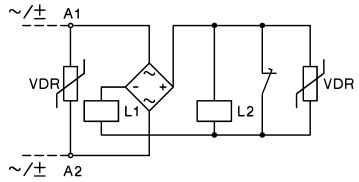
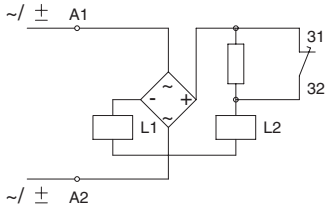
Insulated wiring systems for motor contactors

	Description	Version (A)	For contactors	Type	Pack pcs
	For reversing or parallel contactors (2 parts)	25	J7KN 10 - 22	**J75-WK-21**	1
		40	J7KN 24 - 40	**J75-WK-41**	1
	For star-delta combination (3 parts)	25	J7KN 10 - 22	**J75-WK-22**	1

■ Wiring Diagrams Coil Circuit

AC operated	DC operated with double winding coil*1
J7KN-10... to J7KN-110... 	J7KN-10...D to J7KN-22...D 
	J7KN-24...D to J7KN-74...D 
	J7KN-110...D 
	J7KNG 

*1) 3 Additional Aux. Contacts are possible with the J7KN-.....D types! (See also *page 31*)

AC and DC operated	
J7KN-151... to J7KN-176...	
J7KN-200-21	

Specifications

■ Coil Voltages

Type-suffix for contactor types J7KN-10... to J7KN-74...

Suffix to contactor type e.g.	Voltage Marking at the coil		Rated Control Voltage U_s range for 50Hz		60Hz	
J7KN-10-10-24	for 50Hz V	for 60Hz V	min V	max V	min V	max V
24	**24**	**24**	**22**	**24**	**24**	**27**
48	48	48	44	48	48	52
110	**110**	**110-120**	**100**	**110**	**110**	**122**
180	180-210	200-240	180	210	200	240
230	**220-240**	**240**	**220**	**240**	**240**	**264**
400	**380-415**	**415-440**	**380**	**415**	**415**	**460**
500	500-550	550-600	500	550	550	600

Standard voltages in bold type letter

Type-suffix for contactor types J7KN-85... to J7KN-110...

Suffix to contactor type e.g.	Voltage Marking at the coil		Rated Control Voltage U_s range for 50Hz		60Hz	
J7KN-85-22-24	for 50Hz V	for 60Hz V	min V	max V	min V	max V
20	**20**	**24**	**20**	**22**	**24**	**26**
24	**24**		**24**	**27**	**29**	**32**
48	48	60	47	52	56	62
90	90	110-120	90	100	108	120
110	**110-120**		**110**	**122**	**132**	**146**
180	180-200	208-240	180	200	208	240
230	**220-240**	**277**	**220**	**240**	**264**	**288**
400	**380-415**	**460-480**	**380**	**415**	**455**	**498**
500	500-550	600-660	500	550	600	660

Standard voltages in bold type letter

Type-suffix for contactor types J7KN-151... to J7KN-200...

Suffix to contactor type e.g.	Voltage Marking at the coil		Rated Control Voltage U_s range for 50Hz		60Hz		DC
J7KN-151-230	for 50 Hz V	for 60 Hz V	min V	max V	min V	max V	max V
24	24	24	24	24	24	24	24
48	48	48	48	48	48	48	48
110	110	120	110	120	110	120	110
230	**220-240**	**220-240**	**220**	**240**	**220**	**240**	**220**
400	**380-415**	**380-415**	**380**	**415**	**380**	**415**	-

Standard voltages in bold type letter

■ Engineering data and characteristics

Approximate Values for three-phase Motors

Motor Full Load Currents

Approximate values of motor F.L.C. and minimum „slow blow“ respectively „gL“ short-circuit fuse

Motor rating					220-230V Motor			240V Motor			**380-400V Motor**			415V Motor			500V Motor			660-690V Motor		
Range according to BS for 415V					Value of fusing at motor start			Value of fusing at motor start			Value of fusing at motor start			Value of fusing at motor start			Value of fusing at motor start			Value of fusing at motor start		
kW	PS~hp	hp	cos	%	F.L.C. A	D.O.L. A	YD A	F.L.C. A	D.O.L. A	YD A	F.L.C. A	D.O.L. A	YD A	F.L.C. A	D.O.L. A	YD A	F.L.C. A	D.O.L. A	YD A	F.L.C. A	D.O.L. A	YD A
0.06	0.08	-	0.7	59	0.38	1	1	0.35	1	1	**0.22**	1	1	-	-	-	0.16	1	1	-	-	-
0.09	0.12	-	0.7	60	0.55	2	2	0.5	2	2	**0.33**	1	1	-	-	-	0.24	1	1	-	-	-
0.12	0.16	-	0.7	61	0.76	2	2	0.68	2	2	**0.42**	2	2	-	-	-	0.33	1	1	-	-	-
0.18	0.24	-	0.7	61	1.1	2	2	1	2	2	**0.64**	2	2	-	-	-	0.46	1	1	-	-	-
0.25	0.34	-	0.7	62	1.4	4	2	1.38	4	2	**0.88**	2	2	-	-	-	0.59	2	2	-	-	-
0.37	0.5	-	0.72	64	2.1	4	4	1.93	4	4	**1.22**	4	2	-	-	-	0.85	2	2	0.7	2	2
0.55	0.75	-	0.75	69	2.7	4	4	2.3	4	4	**1.5**	4	2	-	-	-	1.2	4	2	0.9	2	2
0.75	1	1	0.8	74	3.3	6	4	3.1	6	4	**2**	4	4	2	4	4	1.48	4	2	1.1	2	2
1.1	1.5	1.5	0.83	77	4.9	10	6	4.1	6	6	**2.6**	4	4	2.5	4	4	2.1	4	4	1.5	4	2
1.5	2	2	0.83	78	6.2	10	10	5.6	10	10	**3.5**	6	4	3.5	6	4	2.6	4	4	2	4	4
2.2	3	3	0.83	81	8.7	16	10	7.9	16	10	**5**	10	6	5	10	6	3.8	6	6	2.9	6	4
2.5	3.4	-	0.83	81	9.8	16	16	8.9	16	10	**5.7**	10	10	-	-	-	4.3	6	6	-	-	-
3	4	4	0.84	81	11.6	20	16	10.6	20	16	**6.6**	16	10	6.5	16	10	5.1	10	10	3.5	6	4
3.7	5	5	0.84	82	14.2	25	20	13	25	16	**8.2**	16	10	7.5	16	10	6.2	16	10	-	-	-
4	5.5	-	0.84	82	15.3	25	20	14	25	20	**8.5**	16	10	-	-	-	6.5	16	10	4.9	10	6
5.5	7.5	7.5	0.85	83	20.6	35	25	18.9	35	25	**11.5**	20	16	11	20	16	8.9	16	10	6.7	16	10
7.5	10	10	0.86	85	27.4	35	35	24.8	35	35	**15.5**	25	20	14	25	16	11.9	20	16	9	16	10
8	11	-	0.86	85	28.8	50	35	26.4	35	35	**16.7**	25	20	-	-	-	12.7	20	16	-	-	-
11	15	15	0.86	87	39.2	63	50	35.3	50	50	**22**	35	25	21	35	25	16.7	25	20	13	25	16
12.5	17	-	0.86	87	43.8	63	50	40.2	63	50	**25**	35	35	-	-	-	19	35	25	-	-	-
15	20	20	0.86	87	52.6	80	63	48.2	80	63	**30**	50	35	28	35	35	22.5	35	25	17.5	25	20
18.5	25	25	0.86	88	64.9	100	80	58.7	80	63	**37**	63	50	35	50	50	28.5	50	35	21	35	25
20	27	-	0.86	88	69.3	100	80	63.4	80	80	**40**	63	50	-	-	-	30.6	50	35	-	-	-
22	30	30	0.87	89	75.2	100	80	68	100	80	**44**	63	50	40	63	50	33	50	50	25	35	35
25	34	-	0.87	89	84.4	125	100	77.2	100	100	**50**	80	63	-	-	-	38	63	50	-	-	-
30	40	40	0.87	90	101	125	125	92.7	125	100	**60**	80	63	55	80	63	44	63	50	33	50	35
37	50	50	0.87	90	124	160	160	114	160	125	**72**	100	80	66	100	80	54	80	63	42	63	50
40	54	-	0.87	90	134	160	160	123	160	160	**79**	100	100	-	-	-	60	80	63	-	-	-
45	60	60	0.88	91	150	200	160	136	200	160	**85**	125	100	80	100	100	64.5	100	80	49	63	63
51	70	-	0.88	91	168	200	200	154	200	200	**97**	125	100	-	-	-	73.7	100	80	-	-	-
55	75	-	0.88	91	181	250	200	166	200	200	**105**	160	125	-	-	-	79	125	100	60	80	63
59	80	80	0.88	91	194	250	250	178	250	200	**112**	160	125	105	160	125	85.3	125	100	-	-	-
75	100	100	0.88	91	245	315	250	226	315	250	**140**	200	160	135	200	160	106	160	125	82	125	100
90	125	125	0.88	92	292	400	315	268	315	315	**170**	250	200	165	200	200	128	160	160	98	125	125
110	150	150	0.88	92	358	500	400	327	400	400	**205**	250	250	200	250	250	156	200	200	118	160	125
129	175	175	0.88	92	420	500	500	384	500	400	**242**	315	250	230	315	250	184	250	200	-	-	-
132	180	-	0.88	92	425	500	500	393	500	500	**245**	315	250	-	-	-	186	250	200	140	200	160
147	200	200	0.88	93	472	630	630	432	630	500	**273**	315	315	260	315	315	207	250	250	-	-	-
160	220	-	0.88	93	502	630	630	471	630	630	**295**	400	315	-	-	-	220	315	250	170	200	200
184	250	250	0.88	93	590	800	630	541	630	630	**340**	400	400	325	400	400	259	315	315	-	-	-
200	270	-	0.88	93	626	800	800	589	800	630	**370**	500	400	-	-	-	278	315	315	215	250	250
220	300	300	0.88	93	700	1000	800	647	800	800	**408**	500	500	385	500	400	310	400	400	-	-	-
250	340	-	0.88	93	803	1000	1000	736	1000	800	**460**	630	500	-	-	-	353	500	400	268	315	315
257	350	350	0.88	93	826	1000	1000	756	1000	800	**475**	630	630	450	630	500	363	500	400	-	-	-
295	400	400	0.88	93	948	1250	1000	868	1000	1000	**546**	800	630	500	630	630	416	500	500	-	-	-
315	430	-	0.88	93	990	1250	1250	927	1250	1000	**580**	800	630	-	-	-	445	630	500	337	400	400
355	483	-	0.89	95	-	-	-	-	-	-	**636**	800	800	-	-	-	483	630	630	366	500	400
400	545	-	0.89	96	-	-	-	-	-	-	**710**	1000	800	-	-	-	538	630	630	410	500	500

The motor F.L.C. be valid for standard internal and surface cooled three-pole motors with 1500 min^{-1}. The fuses values be valid for the motor F.L.C. shown in the table and D.O.L.-start: starting current max. 6x motor F.L.C., starting time max. 5s; star-delta-start: starting current max. 2x motor F.L.C., starting time max. 15s. For motors with higher F.L.C., higher starting current and / or longer starting time, larger short-circuit fuses are required.

The maximum admissible value is dependent on the switchgear respectively thermal overload relay.

Approximate values of motor F.L.C. according to CSA and UL

Motor rating	Motor F.L.C. at 110-120V			Motor F.L.C. at 220-240V[*1]			Motor F.L.C. at 440-480V			Motor F.L.C. at 550-600V		
	1-phase	2-phase	3-phase	1-phase	2-phase	3-phase	1-phase	2-phase	3-phase	1-phase	2-phase	3-phase
hp	A	A	A	A	A	A	A	A	A	A	A	A
½	9.8	4.0	4.4	4.9	2.0	2.2	2.5	1.0	1.1	2.0	0.8	0.9
¾	13.8	4.8	6.4	6.9	2.4	3.2	3.5	1.2	1.6	2.8	1.0	1.3
1	16.0	6.4	8.4	8.0	3.2	4.2	4.0	1.6	2.1	3.2	1.3	1.7
1½	20.0	9.0	12.0	10.0	4.5	6.0	5.0	2.3	3.0	4.0	1.8	2.4
2	24.0	11.8	13.6	12.0	5.9	6.8	6.0	3.0	3.4	4.8	2.4	2.7
3	34.0	16.6	19.2	17.0	8.3	9.6	8.5	4.2	4.8	6.8	3.3	3.9
5	56.0	26.4	30.4	28.0	13.2	15.2	14.0	6.6	7.6	11.2	5.3	6.1
7½	80.0	38.0	44.0	40.0	19.0	22.0	21.0	9.0	11.0	16.0	8.0	9.0
10	100.0	48.0	56.0	50.0	24.0	28.0	26.0	12.0	14.0	20.0	10.0	11.0
15	135.0	72.0	84.0	68.0	36.0	42.0	34.0	18.0	21.0	27.0	14.0	17.0
20	-	94.0	108.0	88.0	47.0	54.0	44.0	23.0	27.0	35.0	19.0	22.0
25	-	118.0	136.0	110.0	59.0	68.0	55.0	29.0	34.0	44.0	24.0	27.0
30	-	138.0	160.0	136.0	69.0	80.0	68.0	35.0	40.0	54.0	28.0	32.0
40	-	180.0	208.0	176.0	90.0	104.0	88.0	45.0	52.0	70.0	36.0	41.0
50	-	226.0	260.0	216.0	113.0	130.0	108.0	56.0	65.0	86.0	45.0	52.0
60	-	-	-	-	133.0	145.0	-	67.0	77.0	-	53.0	62.0
75	-	-	-	-	166.0	192.0	-	83.0	96.0	-	66.0	77.0
100	-	-	-	-	218.0	248.0	-	109.0	124.0	-	87.0	99.0
125	-	-	-	-	-	312.0	-	135.0	156.0	-	108.0	125.0
150	-	-	-	-	-	360.0	-	156.0	180.0	-	125.0	144.0
200	-	-	-	-	-	480.0	-	208.0	240.0	-	167.0	192.0
250	-	-	-	-	-	602.0	-	-	302.0	-	-	242.0
300	-	-	-	-	-	-	-	-	361.0	-	-	289.0
350	-	-	-	-	-	-	-	-	414.0	-	-	336.0
400	-	-	-	-	-	-	-	-	477.0	-	-	382.0
500	-	-	-	-	-	-	-	-	590.0	-	-	472.0

[*1] Determine the motor current for 200V and 208V by increasing the values for 220-240V at 200V about 15% and for 208V about 10%.

Contactors

Data according to IEC 947-4-1, EN 60947-4-1, VDE 0660

Main Contacts		Type	J7KN-10	J7KN-14	J7KN-18	J7KN-22	J7KN-24	J7KN-32	J7KN-40	J7KN-50	J7KN-62	J7KN-74
Rated insulation voltage U_i[*1]		V AC	690	690	690	690	690	690	690	690	690	690
Making capacity I_{cm}	at U_e = 690V AC	A	200	200	200	200	400	500	500	700	900	900
Breaking capacity I_{cm}	400V AC	A	180	180	200	200	380	400	400	600	800	800
J7KN-10 to J7KN-22 cosφ = 0,65	500V AC	A	150	150	180	180	300	370	370	500	700	700
J7KN-24 to J7KN-72 cosφ = 0,35	690V AC	A	100	100	150	150	260	340	340	400	500	500
	1000V AC	A	-	-	-	-	-	-	-	-	-	
Utilization category AC1 Switching of resistive load												
Rated operational current I_e ($=I_{th}$) at 40°C, open		**A**	**25**	**25**	**32**	**32**	**50**	**65**	**80**	**110**	**120**	**130**
Rated operational power of three-phase resistive loads 50-60Hz, cosφ = 1	220V	kW	9,5	9,5	12,2	12,2	19,0	24,7	30,4	41,9	45,7	49,5
	230V	kW	9,9	9,9	12,7	12,7	19,9	25,9	31,8	43,8	47,7	51,7
	240V	kW	10,4	10,4	13,3	13,3	20,8	27,0	33,2	45,7	49,8	54,0
	380V	kW	16,4	16,4	21,0	21,0	32,9	42,7	52,6	72,3	78,9	85,5
	400V	kW	17,3	17,3	22,1	22,1	34,6	45,0	55,4	76,1	83,0	90,0
	415V	kW	17,9	17,9	23,0	23,0	35,9	46,7	57,4	79,0	86,2	93,3
	440V	kW	19,0	19,0	24,4	24,4	38,1	49,5	60,9	83,7	91,3	99,0
	500V	kW	21,6	21,6	27,7	27,7	43,3	56,2	69,2	95,2	103,8	112,5
	660V	kW	28,5	28,5	36,5	36,5	57,1	74,2	91,3	125,6	137,0	148,4
	690V	kW	29,8	29,8	38,2	38,2	59,7	77,6	95,5	131,3	143,2	155,2
	1000V	kW	-	-	-	-	-	-	-	-	-	-
Rated operational current I_e ($=I_{the}$) at 60°C, enclosed		A	25	25	32	32	40	55	65	90	100	110
Rated operational power of three-phase resistive loads 50-60Hz, cosφ = 1	220V	kW	9,5	9,5	12,2	12,2	15,2	20,9	24,7	34,3	38,1	41,9
	230V	kW	9,9	9,9	12,7	12,7	15,9	21,9	25,9	35,8	39,8	43,8
	240V	kW	10,4	10,4	13,3	13,3	16,6	22,8	27,0	37,4	41,5	45,7
	380V	kW	16,4	16,4	21,0	21,0	26,3	36,2	42,7	59,2	65,7	72,3
	400V	kW	17,3	17,3	22,1	22,1	27,7	38,1	45,0	62,3	69,2	76,1
	415V	kW	17,9	17,9	23,0	23,0	28,7	39,5	46,7	64,6	71,8	79,0
	440V	kW	19,0	19,0	24,4	24,4	30,4	41,9	49,5	68,5	76,1	83,7
	500V	kW	21,6	21,6	27,7	27,7	34,6	47,6	56,2	77,9	86,5	95,2
	660V	kW	28,5	28,5	36,5	36,5	45,7	62,8	74,2	102,8	114,2	125,6
	690V	kW	29,8	29,8	38,2	38,2	47,7	65,7	77,6	107,4	119,4	131,3
	1000V	kW	-	-	-	-	-	-	-	-	-	-
Minimum cross-section of conductor at load with I_e ($=I_{th}$)		mm^2	4	4	6	6	10	16	25	35	50	50
Utilization category AC2 and AC3 Switching of three-phase motors												
Rated operational current I_e open and enclosed	220V	A	12	15	18	22	24	30	40	50	63	74
	230V	A	11,5	14,5	18	22	24	30	40	50	62	74
	240V	A	11	14	18	22	24	32	40	50	62	74
	380-400V	**A**	**10**	**14**	**18**	**22**	**24**	**32**	**40**	**50**	**62**	**74**
	415V	A	9	14	18	22	23	30	40	50	62	74
	440V	A	9	14	18	22	23	30	40	50	62	74
	500V	A	7	9	9	9	17,5	21	21	33	42	42
	660-690V	A	6,5	8,5	8,5	8,5	17	20	20	31	40	40
	1000V	A	-	-	-		-	-	-	-	-	-
Rated operational power of three-phase motors 50-60Hz	220-230V	kW	3	4	5	6	6	8,5	11	12,5	18,5	22
	240V	kW	3	4	5	7	7	9	11,5	13,5	19	23
	380-400V	**kW**	**4**	**5,5**	**7,5**	**11**	**11**	**15**	**18,5**	**22**	**30**	**37**
	415V	kW	4,5	6	8,5	12	12	16	20	24	33	40
	440V	kW	4,5	6	8,5	12	12	16	20	24	33	40
	500V	kW	5,5	7,5	10	10	15	18,5	18,5	30	37	45
	660-690V	kW	5,5	7,5	10	10	15	18,5	18,5	30	37	45
	1000V	kW	-	-	-		-	-	-	-	-	-
Utilization category AC4 Switching of squirrel cage motors, inching												
Rated operational current I_e ($=I_{th}$) open and enclosed	220V	A	12	15	18	18	24	30	40	50	63	63
	230V	A	11,5	14,5	18	18	24	30	40	50	62	62
	240V	A	11	14	18	18	24	32	40	50	62	62
	380-400V	**A**	**10**	**14**	**18**	**18**	**24**	**32**	**40**	**50**	**62**	**62**
	415V	A	9	14	18	18	23	30	37	45	60	60
	440V	A	9	14	18	18	23	30	37	45	55	55
	500V	A	9	12	16	16	17,5	21	21	33	42	42
	660V	A	7	9	9	9	17	20	20	31	40	40
	690V	A	6,5	8,5	8,5	8,5	17	20	20	31	40	40
	1000V	A	-	-	-		-	-	-	-	-	-

Main Contacts		Type	J7KN-10	J7KN-14	J7KN-18	J7KN-22	J7KN-24	J7KN-32	J7KN-40	J7KN-50	J7KN-62	J7KN-74
Utilization category AC4 Switching of squirrel cage motors, inching												
Rated operational power of three-phase motors 50-60Hz	220-230V	kW	3	4	5	5	6	8,5	11	12,5	18,5	18,5
	240V	kW	3	4	5	5	7	9	11,5	13,5	19	19
	380-400V	**kW**	**4**	**5,5**	**7,5**	**7,5**	**11**	**15**	**18,5**	**22**	**30**	**30**
	415V	kW	4,5	6	8,5	8,5	12	16	20	24	33	33
	440V	kW	4,5	6	8,5	8,5	12	16	20	24	33	33
	500V	kW	5,5	7,5	10	10	15	18,5	18,5	30	37	37
	660-690V	kW	5,5	7,5	10	10	15	18,5	18,5	30	37	37
	1000V	kW	-	-	-		-	-	-	-	-	-
Utilization category AC 5a Switching of gas discharge lamps												
Rated operational current I_e per pole at 220/230V												
Fluorescent lamps,												
uncompensated and serial compensated		A	20	20	25	25	40	52	64	88	96	104
parallel compensated		A	7	9	9	9	18	22	22	30	40	45
dual-connection		A	22,5	22,5	28	28	45	58	72	98	108	117
Metal halide lamps*2,												
uncompensated		A	12	15	19	19	30	39	48	66	72	78
parallel compensated		A	7	9	9	9	18	22	22	30	40	45
Mercury-vapour lamps*3,												
uncompensated		A	22,5	25	28	28	45	58	72	99	108	117
parallel compensated		A	7	9	9	9	18	22	22	30	40	45
Mixed light lamps*4		A	20	20	25	25	40	52	64	88	96	104
Utilization category AC 5b Switching of incandescent lamps*5												
Rated operational current I_e per pole at 220/230V		A	12,5	12,5	12,5	12,5	25	31	31	43	56	56
Utilization category AC 6a Transformer primary switching												
at inrush		n	30	30	30	30	30	30	30	30	30	30
Rated operational current I_e	400V	A	4,5	5,5	7,5	7,5	10,5	13,5	13,5	20	27	33
Rated operational power dependent on inrush n	220-230V	kVA	1,8	2,2	3	3	4,2	5,4	5,4	8	10,7	13
	240V	kVA	1,9	2,3	3,1	3,1	4,3	5,6	5,6	8,3	11,2	13,5
	380-400V	kVA	3,1	3,8	5,2	5,2	7,3	9,3	9,3	13,5	18,5	22,5
For different inrush-factors x use the following formula: Px=Pn*(n/x)	415-440V	kVA	3,4	4,2	5,7	5,7	8	10,2	10,2	15	20,5	25
	500V	kVA	3,9	4,8	6,5	6,5	9	11,5	11,5	17	23	28
	660-690V	kVA	5,4	6,5	9	9	12,5	16	16	24	32	39
Utilization category AC 6b Switching of three-phase capacitor banks												
Maximum inrush current (peak value) as multiple k of the capacitor rated current		k	35	25	20	20	25	25	25	25	25	20
Rated operational current I_e	500V	A	8	12	15,5	15,5	23	32	32	45	60	70
Rated operational power (sin 1)	220-230V	kVAr	3	4,5	6	6	8,5	12	12	17	24	28
	240V	kVAr	3,5	5	6,5	6,5	9,5	13	13	18,5	25	29
	380-400V	kVAr	5	7,5	10	10	15	20	20	29	39	46
For different multiples x use the following formula: Px=Pk*(k/x)	415-440V	kVAr	5,5	8	11	11	16	22	22	32	43	50
	500V	kVAr	7	10	13	13	20	26	26	39	50	58
	660-690V	kVAr	7	10	13	13	20	26	26	40	50	58
Switching of detuned capacitors												
Rated operational current I_e	690V	A	8	13	18	20	28	36	42	48	72	105 1)
Rated operational power	220-230V	kVAr	2,9	5	7	7,5	11	14	16	20	28	33
	240V	kVAr	3,1	5,4	7	8	11	14	17	20	28	36
	380-400V	kVAr	5	9	12,5	13	20	25	27,5	33,3	50	75 1)
	415-440V	kVAr	5,5	9,5	13	14	22	27	30	36	53	75 1)
	500V	kVAr	6	11	15	17	25	30	36	40	60	75
	660-690V	kVAr	8	15	20	22	33	41	48	55	82	100
Utilization category DC1 Switching of resistive load												
Time constant L/R 1ms												
Rated operational current I_e	1 pole24V	A	20	25	32	32	50	65	80	110	120	130
	60V	A	20	25	32	32	50	65	80	110	120	130
	110V	A	6	6	6	6	10	10	10	12	12	12
	220V	A	0,8	0,8	0,8	0,8	1,4	1,4	1,4	1,4	1,4	1,4
	3 poles in series 24V	A	20	25	32	32	50	65	80	110	120	130
	60V	A	20	25	32	32	50	65	80	110	120	130
	110V	A	20	25	32	32	50	65	80	110	120	130
	220V	A	16	20	20	20	30	35	35	63	80	80

Main Contacts	Type	J7KN-10	J7KN-14	J7KN-18	J7KN-22	J7KN-24	J7KN-32	J7KN-40	J7KN-50	J7KN-62	J7KN-74
Utilization category DC3 and DC5 Switching of shunt motors and series motors											
Time constant L/R 15ms											
Rated operational current I_e	1 pole24V A	20	25	32	32	50	65	80	110	120	130
	60V A	6	6	6	6	30	30	30	60	60	60
	110V A	1,2	1,2	1,2	1,2	1,8	1,8	1,8	1,8	1,8	1,8
	220V A	0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,25	0,25	0,25
	3 poles in series 24V A	20	25	32	32	50	65	80	110	120	130
	60V A	20	25	32	32	40	40	40	80	80	80
	110V A	20	20	20	20	40	40	40	80	80	80
	220V A	2,5	2,5	2,5	2,5	4	4	4	5	5	5
Maximum ambient temperature											
Operation	open °C	-40 to +60 (+90)*6									
	enclosed °C	-40 to +40									
with thermal overload relay	open °C	-25 to +60									
enclosed	°C	-25 to +40									
Storage	°C	-50 to +90									
Short circuit protection for contactors without thermal overload relay											
Coordination-type "1" according to IEC 947-4-1 Contact welding without hazard of persons											
max. fuse size	gL (gG) A	63	63	63	63	80	80	80	160	160	160
Coordination-type “2” according to IEC 947-4-1 Light contact welding accepted											
max. fuse size	gL (gG) A	25	35	35	35	50	50	50	100	125	125
Contact welding not accepted											
max. fuse size	gL (gG) A	16	16	16	16	25	35	35	50	63	63
For contactors with thermal overload relay the device with the smaller admissible backup fuse (contactor or thermal overload relay) determines the fuse size.											
Cable cross-sections for contactors without thermal overload relay											
main connector	solid or stranded mm²	0,75 - 6				1,5 - 25			4 - 50		
	flexible mm²	1 - 4				2,5 - 16			10 - 35		
	flexible with multicore cable end mm²	0,75 - 4				1,5 - 16			6 - 35		
Cables per clamp		2				1			1		
	solid or stranded mm²	6+(1-6) / 4+(0,75-4)				16+(2,5-6) / 10+(4-10)			50+4 / 35+6 / 25+(6-16)		
		2,5+(0,75-2,5) / 1,5+(0,75-1,5)				6+(4-6) / 4+(2,5-4)			16+(6-16) / 10+(6-16)		
	flexible mm²	6+(1,5-6) / 4+(1-4)				16+(2,5-6) / 10+(4-10)			50+(4-10) / 35+(4-16)		
		2,5+(0,75-2,5) / 1,5+(0,75-1,5)				6+(4-6) / 4+(2,5-4)			25+(4-25) / 16+(4-16)		
Cables per clamp		2				2			2		
main connector	solid AWG	18 - 10				16 - 10			12 - 10		
	flexible AWG	18 - 10				14 - 4			10 - 0		
Cables per clamp		2				1			1		
	solid AWG	10+(16-10) / 12+(18-12)				10+(16-10) / 12+(18-12)			10+(12-10) / 12+12		
		14+(18-14) / 16+(18-16)				14+(18-14) / 16+(18-16)					
	flexible AWG	10+(14-10) / 12+(18-12)				4+(18-12) / 6+(18-8)			1+(12-10) / 2+(8-12)		
		14+(18-14) / 16+(18-16)				8+(18-8) / 10+(18-12)			3+(12-8) / 4+(10-6)		
Cables per clamp		2				2			2		
Frequency of operations z Contactors without thermal overload relay											
	without load 1/h	10000	10000	10000	10000	7000	7000	7000	7000	7000	7000
	AC3, I_e 1/h	600	600	600	600	600	600	600	400	400	400
	AC4, I_e 1/h	120	120	120	120	120	120	120	120	120	120
	DC3, I_e 1/h	600	600	600	600	600	600	600	400	400	400
Mechanical life											
AC operated	S x 10^6	10	10	10	10	10	10	10	10	10	10
DC operated	S x 10^6	10	10	10	10	10	10	10	10	10	10
DC solenoid operated	S x 10^6	50	50	50	50	50	50	50	-	-	-
Short time current	10s-current A	96	120	144	176	184	240	296	360	504	592
Power loss per pole	at I_e/AC3 400V W	0,21	0,35	0,5	0,75	0,7	1,3	2	2,2	3,9	5,5
Resistance to shock acc. to IEC 68-2-27											
Shock time 20ms sine-wave	NO g	10	10	10	10	8	8	8	8	8	8
	NC g	6	6	6	6	-	-	-	-	-	-

*1 Suitable at 690V for: earthed-neutral systems, overvoltage I to IV, pollution degree 3 (standard-industry): U_{imp} = 8kV. Data for other conditions on request.

*2 Metal halide lamps and sodium-vapour lamps (high- and low-pressure lamps)

*3 High-pressure lamps

*4 Blended lamps, containing a mercury high-pressure unit and a tungsten helix in a flourescent glass bulb (daylight lamps)

*5 Current inrush approx. 16 x I_e

*6 With reduced control voltage range 0,9 up to 1,0 x U_s and with reduced rated current I_e/AC1 according to I_e/AC3

Main Contacts		Type	J7KN-85	J7KN-110	J7KN-151	J7KN-176	J7KN-200
Rated insulation voltage U_i *1		V AC	750	750	690	690	690
Making capacity I_{cl}	at U_e = 690V AC	A	1100	1200	1500	1800	1700
Breaking capacity I_{cl}	400V AC	A	950	1100	1200	1400	1600
J7KN-10 to J7KN-22 cosφ = 0,65	500V AC	A	850	1000	1200	1400	1600
J7KN-24 to J7KN-72 cosφ = 0,35	690V AC	A	600	600	700	800	1200
	1000V AC	A	-	-	-	-	-
Utilization category AC1 Switching of resistive load							
Rated operational current I_e ($=I_{th}$) at 40°C, open		A	150	170	230	250	350
Rated operational power of three-phase resistive loads 50-60Hz, cosφ = 1	220V	kW	57	64	87	95	133
	230V	kW	59	67	91	99	139
	240V	kW	62	70	95	103	145
	380V	kW	98	111	151	164	230
	400V	kW	103	117	159	173	242
	415V	kW	107	122	165	179	251
	440V	kW	114	129	175	190	266
	500V	kW	130	147	199	216	303
	660V	kW	171	194	262	285	400
	690V	kW	179	203	274	298	418
	1000V	kW	-	-	398	433	-
Rated operational current I_e ($=I_{the}$) at 60°C, enclosed		A	100	125	180	200	280
Rated operational power of three-phase resistive loads 50-60Hz, cosφ = 1	220V	kW	38	47	68	76	106
	230V	kW	40	49	71	79	111
	240V	kW	41	52	74	83	116
	380V	kW	65	82	118	131	184
	400V	kW	69	86	124	138	193
	415V	kW	71	89	129	143	201
	440V	kW	71	95	137	152	213
	500V	kW	86	108	155	173	242
	660V	kW	114	142	205	228	320
	690V	kW	119	149	215	239	334
	1000V	kW	-	-	-	-	-
Minimum cross-section of conductor at load with I_e ($=I_{th}$)		mm^2	50	70	95	120	185
Utilization category AC2 and AC3 Switching of three-phase motors							
Rated operational current I_e open and enclosed	220V	A	85	110	150	175	210
	230V	A	85	110	150	175	210
	240V	A	85	110	150	175	210
	380-400V	A	85	110	150	175	210
	415V	A	85	110	150	175	210
	440V	A	85	110	150	175	210
	500V	A	60	60	150	175	210
	660-690V	A	57,5	57,5	120	140	150
	1000V	A	-	-	60	70	-
Rated operational power of three-phase motors 50-60Hz	220-230V	kW	25	33	40	50	60
	240V	kW	27	35	45	55	65
	380-400V	kW	45	55	75	90	110
	415V	kW	49	63	80	95	115
	440V	kW	49	63	85	100	125
	500V	kW	55	75	90	100	132
	660-690V	kW	55	55	110	132	132
	1000V	kW	-	-	75	90	-
Utilization category AC4 Switching of squirrel cage motors, inching							
Rated operational current I_e ($=I_{th}$) open and enclosed	220V	A	85	98	55	63	85
	230V	A	85	98	55	63	85
	240V	A	85	98	55	63	85
	380-400V	A	85	85	55	63	85
	415V	A	85	85	55	63	85
	440V	A	85	85	55	63	85
	500V	A	85	85	-	-	-
	660V	A	60	60	-	-	-
	690V	A	57,5	57,5	-	-	-
	1000V	A	-	-	-	-	-

Main Contacts		Type	J7KN-85	J7KN-110	J7KN-151	J7KN-176	J7KN-200
Rated operational power of three-phase motors 50-60Hz	220-230V	kW	25	30	15	18,5	25
	240V	kW	27	32	15,5	19	26
	380-400V	kW	45	45	25	30	45
	415V	kW	49	49	25	33	45
	440V	kW	49	49	30	34	48
	500V	kW	55	55	25	30	55
	660-690V	kW	55	55	25	30	55
	1000V	kW	-	-	-	-	-
Utilization category AC 5a Switching of gas discharge lamps							
Rated operational current I_e per pole at 220/230V							
Fluorescent lamps,							
uncompensated and serial compensated		A	100	120	120	140	180
parallel compensated		A	55	70	85	100	120
dual-connection		A	112	144	120	140	180
Metal halide lamps*2,							
uncompensated		A	85	90	95	110	140
parallel compensated		A	55	70	75	85	110
Mercury-vapour lamps*3,							
uncompensated		A	112	144	120	140	180
parallel compensated		A	55	70	75	85	110
Mixed light lamps*4		A	100	120	100	120	160
Utilization category AC5b Switching of incandescent lamps*5							
Rated operational current I_e per pole at 220/230V		A	69	75	100	120	160
Utilization category AC6a Transformer primary switching							
at inrush		n	30	30	30	30	30
Rated operational current I_e	400V	A	38	50	65	80	90
Rated operational power dependent on inrush n	220-230V	kVA	15	20	25	30	34
	240V	kVA	15,5	20,5	27	33	37
	380-400V	kVA	26	34	45	55	60
For different inrush-factors x use the following formula: Px=Pn*(n/x)	415-440V	kVA	29	38	46	57	63
	500V	kVA	33	43	55	69	75
	660-690V		45	60	56	69	100
Utilization category AC6b Switching of three-phase capacitor banks							
Maximum inrush current (peak value) as multiple k of the capacitor rated current		k	20	20	20	20	15
Rated operational current I_e	500V	A	87	100	120	155	195
Rated operational power (sin 1)	220-230V	kVAr	33	38	45	60	75
	240V	kVAr	36	42	52	62	78
	380-400V	kVAr	57	65	80	100	130
For different multiples x use the following formula: Px=Pk*(k/x)	415-440V	kVAr	60	70	95	110	135
	500V	kVAr	70	80	100	130	170
	660-690V	kVAr	70	80	100	130	170
Switching of detuned capacitors							
Rated operational current I_e	690V	A	98	105	115	140	200
Rated operational power	220-230V	kVAr	35	40	43	53	76
	240V	kVAr	39	43	45	55	80
	380-400V	kVAr	68	75	75	90	130
	415-440V	kVAr	71	77	80	100	140
	500V	kVAr	85	90	95	120	170
	660-690V	kVAr	110	120	125	150	200
Utilization category DC1 Switching of resistive load							
Time constant L/R 1ms							
Rated operational current I_e	1 pole24V	A	150	170	-	-	-
	60V	A	150	170	-	-	-
	110V	A	20	25	-	-	-
	220V	A	2	2,5	-	-	-
	3 poles in series 24V	A	150	170	-	-	-
	60V	A	150	170	-	-	-
	110V	A	150	170	-	-	-
	220V	A	100	160	-	-	-

Main Contacts	Type	J7KN-85	J7KN-110	J7KN-151	J7KN-176	J7KN-200
Utilization category DC3 and DC5 **Switching of shunt motors and series motors**						
Time constant L/R 15ms						
Rated operational current I_e	1 pole24V A	150	170	-	-	-
	60V A	85	110	-	-	-
	110V A	2	2,5	-	-	-
	220V A	0,5	0,5	-	-	-
	3 poles in series 24V A	150	170	-	-	-
	60V A	100	110	-	-	-
	110V A	100	110	-	-	-
	220V A	7	8	-	-	-
Maximum ambient temperature						
Operation	open °C	-40 to +60 (+90)*6		-25 to +55 (+70)*7		
	enclosed °C	-40 to +40		-25 to +40		
with thermal overload relay	open °C	-25 to +60		-25 to +55		
enclosed	°C	-25 to +40		-25 to +40		
Storage	°C	-50 to +90		-55 to +80		
Short circuit protection for contactors without thermal overload relay						
Coordination-type "1" according to IEC 947-4-1 Contact welding without hazard of persons						
max. fuse size	gL (gG) A	250	250	250	315	400
Coordination-type “2” according to IEC 947-4-1 Light contact welding accepted						
max. fuse size	gL (gG) A	160	200	200	250	315
Contact welding not accepted						
max. fuse size	gL (gG) A	100	125	160	200	250
For contactors with thermal overload relay the device with the smaller admissible backup fuse (contactor or thermal overload relay) determines the fuse size.						
Cable cross-sections for contactors without thermal overload relay						
main connector	solid or stranded mm²	10 - 70*8	10 - 70*8	95	120	185
	flexible mm²	6 - 50*8	16 - 50*8	screw	screw	screw
	flexible with multicore cable end mm²	10 - 35	10 - 35	M8	M8	M8
Cables per clamp						
	solid or stranded mm²					
	flexible mm²					
Cables per clamp						
main connector	solid AWG	10	10			
	flexible AWG	6 - 0	6 - 0			
Cables per clamp		1	1			
	solid AWG					
	flexible AWG					
Cables per clamp						
Frequency of operations z Contactors without thermal overload relay						
	without load 1/h	3000	3000	1200	1200	1200
	AC3, I_e 1/h	300	300	-	-	-
	AC4, I_e 1/h	120	120	-	-	-
	DC3, I_e 1/h	300	300	-	-	-
Mechanical life						
AC operated	S x 10^6	5	5	10	10	8
DC operated	S x 10^6	5	5	10	10	8
Short time current	10s-current A	680	880	1200	1400	1800
Power loss per pole	at I_e/AC3 400V W	4,3	6,0	8	11	8
Resistance to shock acc. to IEC 68-2-27						
Shock time 20ms sine-wave	NO g	7	7	-	-	-
	NC g	5	5	-	-	-

*1 Suitable at 690V for: earthed-neutral systems, overvoltage I to IV, pollution degree 3 (standard-industry): U_{imp} = 8kV. Data for other conditions on request.
*2 Metal halide lamps and sodium-vapour lamps (high- and low-pressure lamps)
*3 High-pressure lamps
*4 Blended lamps, containing a mercury high-pressure unit and a tungsten helix in a flourescent glass bulb (daylight lamps)
*5 Current inrush approx. 16 x I_e
*6 With reduced control voltage range 0,9 up to 1,0 x U_s and with reduced rated current I_e/AC1 according to I_e/AC3
*7 With reduced control voltage range 1,0 x U_s and with reduced rated current I_e/AC1 according to I_e/AC3
*8 Maximum cable cross-section with prepared conductor

Contactors

Data according to IEC 947-4-1, EN 60947-4-1, VDE 0660

Auxiliary Contacts		Type	J7KN-10	J7KN-14	J7KN-18	J7KN-22	J7KN-24	J7KN-32	J7KN-40	J7KN-50	J7KN-62	J7KN-74
Rated insulation voltage U_i[*1]		V~	690	690	690	690	-	-	-	-	-	-
Thermal rated current I_{th} to 690V												
Ambient temperature	40°C	A	16	16	16	16	-	-	-	-	-	-
	60°C	A	12	12	12	12	-	-	-	-	-	-
Utilization category AC15												
Rated operational current I_e	220-240V	A	12	12	12	12	-	-	-	-	-	-
	380-415V	A	4	4	4	4	-	-	-	-	-	-
	440V	A	4	4	4	4	-	-	-	-	-	-
	500V	A	3	3	3	3	-	-	-	-	-	-
	660-690V	A	1	1	1	1	-	-	-	-	-	-
Utilization category DC13												
Rated operational current I_e	60V	A	8	8	8	8	-	-	-	-	-	-
	110V	A	1	1	1	1	-	-	-	-	-	-
	220V	A	0,1	0,1	0,1	0,1	-	-	-	-	-	-
Short circuit protection												
short-circuit current 1kA, contact welding not accepted												
max. fuse size	gL (gG)	A	25	25	25	25	-	-	-	-	-	-
For contactors with thermal overload relay the device with the smaller admissible control fuse (contactor or thermal overload relay) determines the fuse.												
Control Circuit Power consumption of coils												
AC operated	inrush	VA	33-45				90-115			140-165		
	sealed	VA	7-10				9-13			13-18		
		W	2,6-3				2,7-4			5,4-7		
DC operated	inrush	W	75				140			200		
	sealed	W	2				2			6		
DC solenoid operated	inrush	W	3				4			-		
(J7KNG-types)	sealed	W	3				4			-		
Operation range of coils												
in multiples of control voltage U_s	AC operated		0,85-1,1				0,85-1,1			0,85-1,1		
	DC operated		0,8-1,1				0,8-1,1			0,8-1,1		
Switching time at control voltage U_s ±10%[*2,*3]												
AC operated	make time	ms	8-16				10-25			12-28		
	release time	ms	5-13				8-15			8-15		
	arc duration	ms	10-15				10-15			10-15		
DC operated	make time	ms	8-12				10-20			12-23		
	release time	ms	8-13				10-15			10-18		
	arc duration	ms	10-15				10-15			10-15		
DC solenoid operated	make time	ms	65-85				65-85			-		
	release time	ms	20-30[*4]				20-30[*4]			-		
	arc duration	ms	10-15				10-15			-		
Cable cross-section												
Auxiliary connector	solid	mm²	0,75-6				-			-		
	flexible	mm²	1-4				-			-		
flexible with multicore cable end		mm²	0,75-4				-			-		
Magnet coil	solid	mm²	0,75-2,5				0,75-2,5			0,75-2,5		
	flexible	mm²	0,5-2,5				0,5-2,5			0,5-2,5		
flexible with multicore cable end		mm²	0,5-1,5				0,5-1,5			0,5-1,5		
Clamps per pole			2				2			2		
Auxiliary connector	solid	AWG	18 - 10				-			-		
	flexible	AWG	18 - 10				-			-		
Magnet coil	solid	AWG	14 - 12				14 - 12			14 - 12		
	flexible	AWG	18 - 12				18 - 12			18 - 12		
Clamps per pole			2				2			2		

[*1] Suitable for: earthed-neutral systems, overvoltage category I to IV, pollution degree 3 (standard-industry): U_{imp} = 8kV. Data for other conditions on request

[*2] Total breaking time = release time + arc duration

[*3] Values for delay of the release time of the making contact and the make time of the break contact will be increased, if magnet coils are protected against voltage peaks (varistor, RC-unit, diode-unit)

[*4] with integrated suppressor

Auxiliary Contacts		Type	J7KN-85	J7KN-110	J7KN-151	J7KN-176	J7KN-200
Rated insulation voltage U_i[*1]		V~	690	690	690	690	690
Thermal rated current I_{th} to 690V							
Ambient temperature	40°C	A	16	16	10	10	10
	60°C	A	12	12	-	-	-
Utilization category AC15							
Rated operational current I_e	220-240V	A	12	12	3	3	3
	380-415V	A	6	6	2	2	2
	440V	A	6	6	1,5	1,5	1,5
	500V	A	4	4	1,5	1,5	1,5
	660-690V	A	2	2	1	1	1
Utilization category DC13							
Rated operational current I_e	60V	A	8	8	-	-	-
	110V	A	1	1	0,5	0,5	1
	220V	A	0,1	0,1	0,2	0,2	0,5
Short circuit protection							
short-circuit current 1kA, contact welding not accepted							
max. fuse size	gL (gG)	A	25	25	10	10	10
For contactors with thermal overload relay the device with the smaller admissible control fuse (contactor or thermal overload relay) determines the fuse.							
Control Circuit **Power consumption of coils**							
AC operated	inrush	VA	280-350	350-420	350	350	700
	sealed	VA	16 -23	23 -29	5	5	20
		W	4-6	6-7,3	-	-	-
DC operated	inrush	W	170	320	350	350	700
	sealed	W	2	4	5	5	20
Operation range of coils							
in multiples of control voltage U_c	AC operated		0,85-1,1		0,85-1,1	0,85-1,1	0,85-1,1
	DC operated		0,8-1,1		0,85-1,1	0,85-1,1	0,85-1,1
Switching time at control voltage U_c ±10%[*2],[*3]							
AC operated	make time	ms	13-30		30-60	30-60	40-60
	release time	ms	8-15		30-80	30-80	15-45
	arc duration	ms	10-15			-	-
DC operated	make time	ms	20-30		-	-	-
	release time	ms	10-18		-	-	-
	arc duration	ms	10-15		-	-	-
Cable cross-section							
Auxiliary connector	solid	mm²	0,75-2,5		-		0,75-2,5
	flexible	mm²	0,75-2,5		-		0,75-2,5
flexible with multicore cable end		mm²	0,5-1,5		-		
Magnet coil	solid	mm²	0,75-2,5		1-2,5		
	flexible	mm²	0,5-2,5		1-2,5		
flexible with multicore cable end		mm²	0,5-1,5		-		
Clamps per pole			14 - 12		16 - 12		
Auxiliary connector	solid	AWG	18 - 12		-		16 - 12
	flexible	AWG	14 - 12		-		16 - 12
Magnet coil	solid	AWG	18 - 12		16 - 12		
	flexible	AWG	2		2		
Clamps per pole			0,75-2,5		0,75-2,5		

[*1] Suitable for: earthed-neutral systems, overvoltage category I to IV, pollution degree 3 (standard-industry): U_{imp} = 8kV. Data for other conditions on request

[*2] Total breaking time = release time + arc duration

[*3] Values for delay of the release time of the making contact and the make time of the break contact will be increased, if magnet coils are protected against voltage peaks (varistor, RC-unit, diode-unit)

Contactors for North America

Data according to UL508

Main Contacts (cULus)		Type	J7KN-10	J7KN-14	J7KN-18	J7KN-22	J7KN-24	J7KN-32	J7KN-40	J7KN-50	J7KN-62	J7KN-74
Rated operational current "General Use"		A	25	25	30	30	50	65	80	110	120	130
Rated operational power	110-120V	hp	1½	2	2	3	5	5	7½	10	10	10
of three-phase motors	200V	hp	3	3	5	5	7½	10	10	15	20	25
at 60Hz (3ph)	220-240V	hp	3	3	7½	7½	10	10	15	20	25	30
	277V	hp	3	5	7½	7½	7½	10	15	20	25	30
	380-415V	hp	5	5	10	10	10	15	20	25	30	40
	440-480V	hp	5	7½	10	15	15	20	25	30	40	50
	550-600V	hp	7½	10	15	20	20	25	30	40	50	50
Rated operational power	110-120V	hp	½	¾	1	1½	1½	2	3	3	5	7½
of AC motors	200V	hp	1	1,5	2	3	3	5	7½	7½	10	15
at 60Hz (1ph)	220-240V	hp	1½	2	3	3	5	5	7½	10	15	15
	277V	hp	2	3	3	5	5	7½	10	10	15	15
	380-415V	hp	3	3	5	5	5	7½	10	15	20	20
	440-480V	hp	3	5	5	7½	7½	10	15	20	25	25
	550-600V	hp	3	5	7½	10	10	15	20	25	30	30
Rated operational power of	110-120V	hp	-	-	-	-	2	3	-	3	5	-
three-phase motors at 60Hz (3ph)	200V	hp	-	-	-	-	3	5	-	7½	10	-
for elevators	220-240V	hp	-	-	-	-	5	7½	-	7½	10	-
Demands according to ANSI A17.5												
(500.000 operations)	440-480V	hp	-	-	-	-	10	15	-	20	25	-
	550-600V	hp	-	-	-	-	10	20	-	25	30	-
Rated operationalcurrent	600V	A	-	-	-	-	15	22	-	27	37	-
Fuses		A	30	40	50	50	90	125	175	175	225	250
Suitable for use on a capability												
of delivering not more than	rms	A	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000
(SCCR)		V	600	600	600	600	600	600	600	600	600	600
Auxiliary Contacts (cULus)			A600	A600	A600	A600	-	-	-	-	-	-

Main Contacts (cULus)		Type	J7KN-85	J7KN-110	J7KN-151	J7KN-176	J7KN-200
Rated operational current "General Use"		A	125	125	180	220	-
Rated operational power	110-120V	hp	15	-	-	-	-
of three-phase motors	200V	hp	-	30	40	50	-
at 60Hz (3ph)	220-240V	hp	35	40	50	60	-
	277V	hp	-	-	-	-	-
	380-415V	hp	-	-	-	-	-
	440-480V	hp	65	75	100	125	-
	550-600V	hp	85	100	125	150	-
Rated operational power	110-120V	hp	8	10	15	25	-
of AC motors	200V	hp	-	20	-	-	-
at 60Hz (1ph)	220-240V	hp	20	20	25	30	-
	277V	hp	-	-	-	-	-
	380-415V	hp	-	-	-	-	-
	440-480V	hp	-	50	-	-	-
	550-600V	hp	-	60	-	-	-
Rated operational power of	110-120V	hp	-	-	-	-	-
three-phase motors at 60Hz (3ph)	200V	hp	-	-	-	-	-
for elevators	220-240V	hp	-	-	-	-	-
Demands according to ANSI A17.5							
(500.000 operations)	440-480V	hp	-	-	-	-	-
	550-600V	hp	-	-	-	-	-
Rated operationalcurrent	600V	A	-	62	-	-	-
Fuses		A	-	300	300	500	-
Suitable for use on a capability							
of delivering not more than	rms	A	10000	10000	10000	10000	-
(SCCR)		V	600	600	600	600	-
Auxiliary Contacts (cULus)			A600	A600	-	-	-

Contactors

Data according to IEC 947-4-1, EN 60947-4-1, VDE 0660

Contact Life

For selection of the suitable contactor-type according to supply voltage, power rating and application (utilization category AC1, AC3 or AC4) use contact life characteristic diagram.

For the most common supply voltages four scales of power ratings P_n are provided for each utilization category.

Select contactor-type according to utilization category **AC3** (breaking current $I_a = I_e$) using the **motor rating** scales to the right, according to utilization category **AC4** (breaking current $I_a = 6 \times I_e$) using the **motor rating** scales to the left.[*1]

Select contactor-type according to utilization category **AC1** (breaking current $I_a = I_e/AC1$) using the **breaking current** scale.[*1]

1. Pay attention to the approved rated values of the selected contactor according to the national approvals

For contactors frequently used under AC3/AC4-mixed service conditions calculate contact life with the formula:

$$M = \frac{AC3}{1 + \frac{\%AC4}{100} \times \left(\frac{AC3}{AC4} - 1\right)}$$

M = Contact life (switching cycles) for AC3/AC4-mixed operations

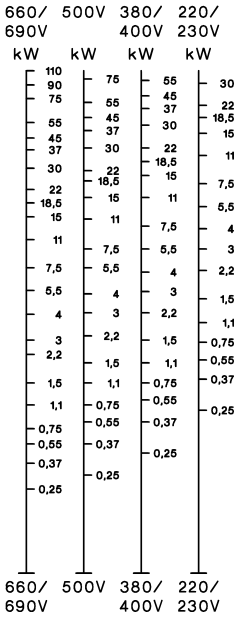
AC3 = Contact life (switching cycles) for AC3 operations (normal switching conditions). Breaking current I_a = rated motor current I_n.

AC4 = Contact life (switching cycles) for AC4 operations (inching).

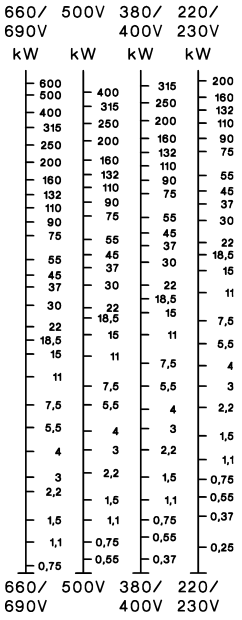
Breaking current I_a= multiples of rated motor current I_n.

%AC4 = Percents of AC4-operations related to the total cycles.

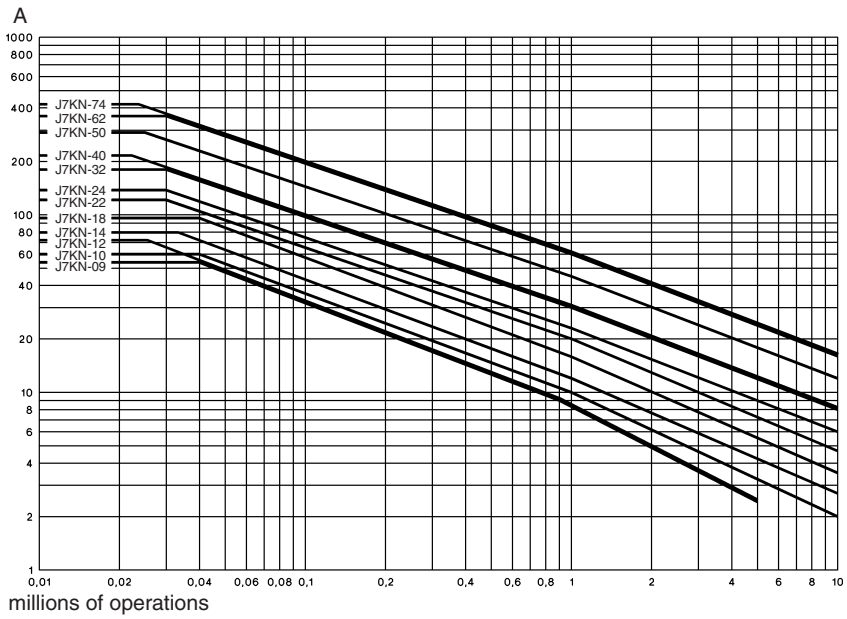
Motor Rating
P_n/AC4



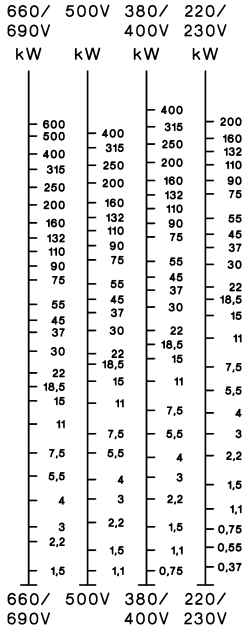
Motor Rating
P_n/AC3



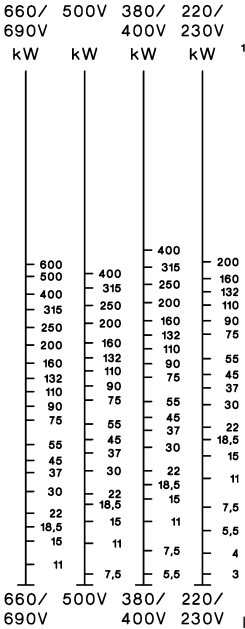
Breaking Current
I_a (=I_e/AC1)



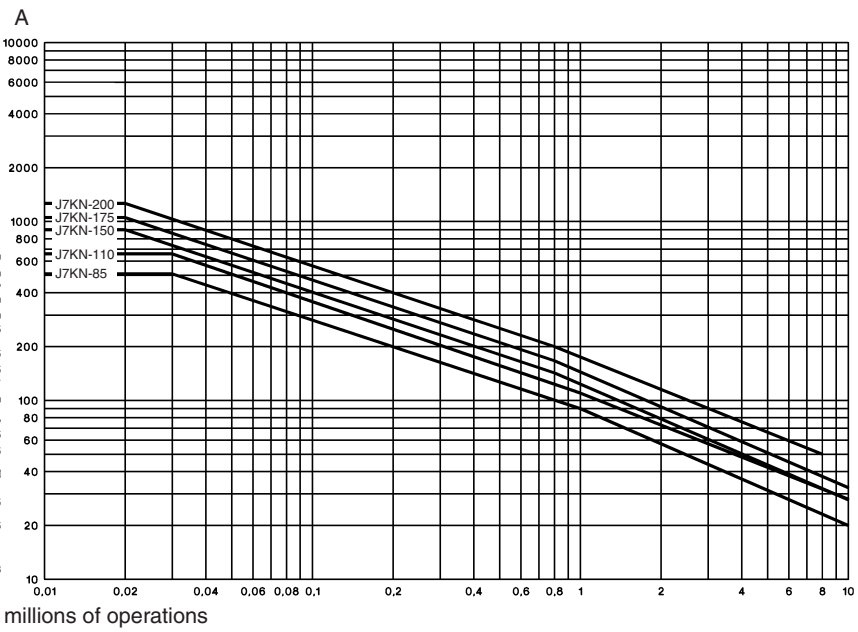
Motor Rating
P_n/AC4



Motor Rating
P_n/AC3



Breaking Current
I_a (=I_e/AC1)



Contactors

Utilization Categories

For easier choice of devices and in order to make the comparison of different products simplier are utilization categories for contactors and motor-starters according to IEC 947-4-1 and VDE 0660 Part 102 ,for control circuit devices and switching elements according to IEC 947-5-1 and VDE 0660 Part 200 determind. The table offers different utilization categories, typical applications and assorted test conditions.

Type of current	Category	Typical applications	Rated operational current	Test conditions for the number of on-load operating cycles						Test conditions for making and breaking capacities					
				Make			Break			Make			Break		
				I/Ie	U/Ue	cos	Ic/Ie	Ur/Ue	cos	I/Ie	U/Ue	cos	Ic/Ie	Ur/Ue	cos
Alternating Current	AC1	Non-inductive or slightly inductive loadsre-sistance furnaces	all values	1	1	0.95	1	1	0.95	1.5	1.05	0.8	1.5	1.05	0.8
	AC2	Slip-ring motors: starting, switching off	all values	2.5	1	0.65	2.5	1	0.65	4	1.05	0.65	4	1.05	0.65
	AC3	Squirrel-cage motors: starting, switching off motors during running	17A< Ie 17A	6	1	0.65	1	0.17	0.65	10	1.05	0.45	8	1.05	0.45
			Ie 100A	6	1	0.35	1	0.17	0.35	10	1.05	0.45	8	1.05	0.45
			Ie> 100A	6	1	0.35	1	0.17	0.35	10	1.05	0.35	8	1.05	0.35
	AC4	Squirrel-cage motors: starting, plugging, inching	17A< Ie 17A	6	1	0.65	6	1	0.65	12	1.05	0.45	10	1.05	0.45
			Ie 100A	6	1	0.35	6	1	0.35	12	1.05	0.45	10	1.05	0.45
			Ie> 100A	6	1	0.35	6	1	0.35	12	1.05	0.35	10	1.05	0.35
	AC5a	Switching of electric discharge lamp controls	all values	-	-	-	-	-	-	3	1.05	0.45	3	1.05	0.45
	AC5b	Switching of incandescent lamps	all values	-	-	-	-	-	-	1.5	1.05	1)	4	1.05	1)
	AC6a	Switching of transformers	Ie 100A	-	-	-	-	-	-	4.5	1.05	0.45	3.6	1.05	0.45
			Ie> 100A	-	-	-	-	-	-	4.5	1.05	0.35	3.6	1.05	0.35
	AC6b	Switching of capacitor banks	-	-	-	-	-	-	-	2)			2)		
	AC7a	Slightly inductive loads in household appliances and similar applications	all values	-	-	-	-	-	-	1.5	1.05	0.8	1.5	1.05	0.8
	AC7b	Motor loadsfor household applications	Ie 100A	-	-	-	-	-	-	8	1.05	0.45	6	1.05	0.45
			Ie> 100A	-	-	-	-	-	-	8	1.05	0.35	6	1.05	0.35
	AC8a	Hermetic refrigerant compressor motor control with manualresetting of overload releases	Ie 100A	-	-	-	-	-	-	6	1.05	0.45	6	1.05	0.45
			Ie> 100A	-	-	-	-	-	-	6	1.05	0.35	6	1.05	0.35
	AC8b	Hermetic refrigerant compressor motor control with automatic resetting of overload releases	Ie 100A	-	-	-	-	-	-	6	1.05	0.45	6	1.05	0.45
			Ie> 100A	-	-	-	-	-	-	6	1.05	0.35	6	1.05	0.35
	AC12	Control of resistive loads and solid state loads with isolation by opto couplers	all values	-	-	-	-	-	-	1	1	0.9	1	1	0.9
	AC13	Control of solid state loads with transformer isolation	all values	-	-	-	-	-	-	10	1.1	0.65	1.1	1.1	0.65
	AC14	Control of small electromagnetic loads (<=72VA)	-	-	-	-	-	-	-	6	1.1	0.7	6	1.1	0.7
	AC15	Control of electromagnetic load (>72VA)	-	10	1	0.7	1	1	0.4	10	1.1	0.3	10	1.1	0.3
				Make		L/R	Break		L/R	Make		L/R	Break		L/R
				I/Ie	U/Ue	[ms]	Ic/Ie	Ur/Ue	[ms]	I/Ie	U/Ue	[ms]	Ic/Ie	Ur/Ue	[ms]
Direct Current	DC1	Non-inductive or slightly inductive loads resistance furnaces	all values	1	1	1	1	1	1	1.5	1.05	1	1.5	1.05	1
	DC3	Shunt-motors: starting, plugging, inching dynamic braking of d.c. motors	all values	2.5	1	2	2.5	1	2	4	1.05	2.5	4	1.05	2.5
	DC5	Series-motors: starting, plugging, inching dynamic braking of d.c. motors	all values	2.5	1	7.5	2.5	1	7.5	4	1.05	15	4	1.05	15
	DC6	Switching of incandescent lamps	all values	-	-	-	-	-	-	1.5	1.05	1)	4	1.05	1)
	DC12	Control of resistive loads and solid state loads with isolation by opto couplers	all values	-	-	-	-	-	-	1	1	1	1	1	1
	DC13	Control of electromagnets	all values	1	1	300	1	1	300	1.1	1.1	300	1.1	1.1	300
	DC14	Control of electromagnetic loads having economy resistors in circuit	all values	-	-	-	-	-	-	10	1.1	15	10	1.1	15

U_e Rated operational voltage, U Voltage before make, U_r Recovery voltage, I_e Rated operational current, I Current make, I_c Current broken

1) Test with incandescent lamps

2) Test conditions according to standard

Accessories

Data according to IEC 947-5-1, EN 60947-5-1, VDE 0660

Auxiliary Contacts		Type	J73KN-B	J73KN-C	J73KN-D	J74KN-B-TP...
Rated insulation voltage U_i[*1]		V~	690	690	690	690
Thermal rated current I_{th} to 690V						
Ambient temperature	40°C	A	10	10	10	10
	60°C	A	6	6		-
Frequency of operations z		1/h	3000	3000	3000	1200
Mechanical life		S x 10^6	10	10	10	1
Power loss per pole at I_e/AC1		W	0,5	0,5	-	-
Utilization category AC15						
Rated operational current I_e	220-240V	A	3	3	3	4
	380-400V	A	2	2	2	3
	440V	A	1,6	1,6	1,5	2
	500V	A	1,2	1,2	1,5	2
	660-690V	A	0,6	0,6	1	2
Utilization category DC13						
Rated operational current I_e	60V	A	2	2	-	2,5
	110V	A	0,4	0,4	1	1,5
	220V	A	0,1	0,1	0,5	0,2
Short circuit protection						
short-circuit current 1kA, contact welding not accepted max. fuse size	gL (gG)	A	20	20	10	10
For contactors with thermal overload relay or auxiliary contacts the device with the smaller admissible control fuse (contactor or thermal overload relay) determines the fuse size.						
Cable cross-sections						
	solid or stranded	mm²	0,75-2,5	0,75-2,5	0,75-2,5	1-2,5
	flexible	mm²	0,75-2,5	0,75-2,5	0,75-2,5	0,75-2,5
	flexible with multicore cable end	mm²	0,5-1,5	0,5-1,5	-	0,75-2,5
Cables per clamp			2	2	2	2

[*1] Suitable for: earthed-neutral systems, overvoltage category I to IV, pollution degree 3 (standard-industry): U_{imp} = 8kV. Data for other conditions on request

Data according to CSA, UL and CUL

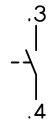
Auxiliary Contacts		Type	J73KN-B	J73KN-C	J73KN-D	J74KN-B-TP...
Rated operational current „General Use“		A	10	10	10	10
Rated operational voltage	max.	V AC	600	600	600	600
Auxiliary Contacts			A600	A600	A600	A600

Contactors and Accessories

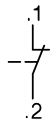
Wiring diagrams

Auxiliary contact blocks

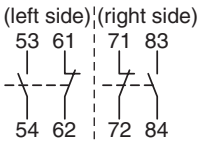
J73KN-B-10



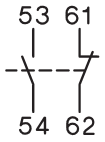
J73KN-B-01



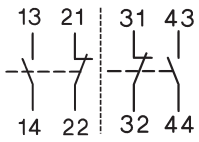
J73KN-C-11S[*1]



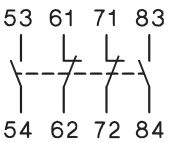
J73KN-D-11



J73KN-D-11S



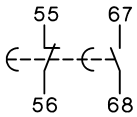
J73KN-D-22



Pneumatic timer

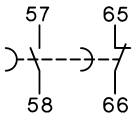
on-delayed

J74KN-B-TP...DA



off-delayed

J74KN-B-TP...IA

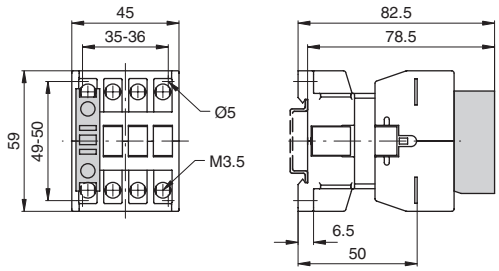


[*1] Correct terminal marking is given by mounting

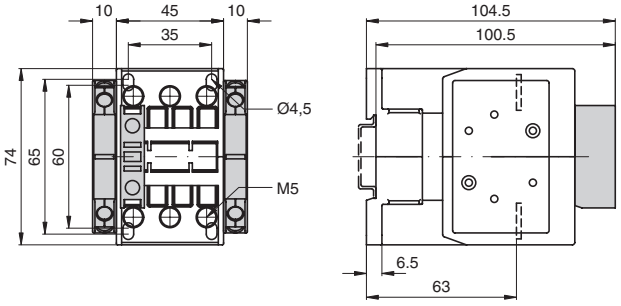
■ Dimensions

AC operated

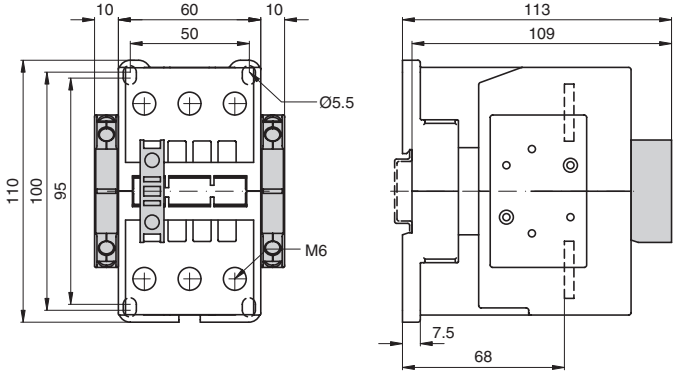
J7KN-10/14/18/22(-4)...



J7KN-24/32/40...



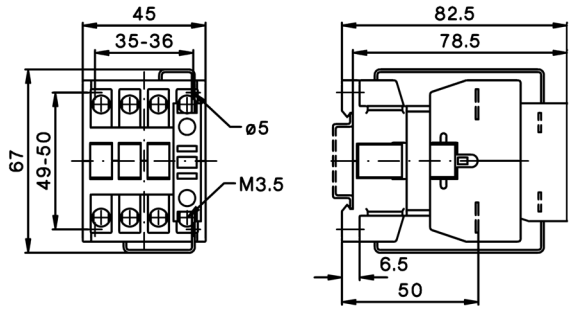
J7KN-50/62/74...



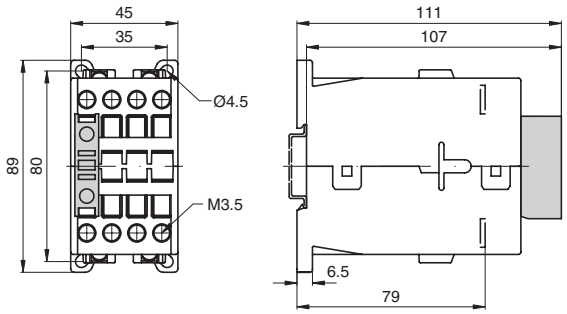
Auxiliary contacts are optional

DC operated

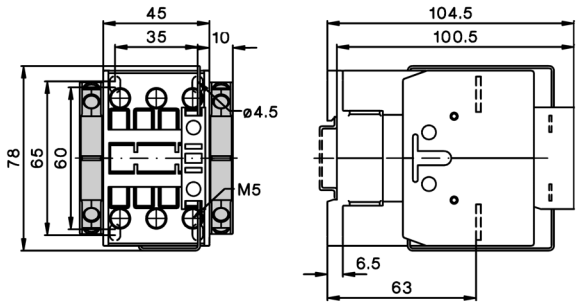
J7KN-10/14/18/22...D



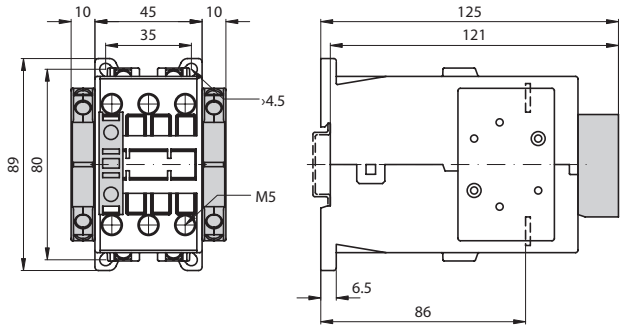
J7KNG-10/14/18/22(-4)...D



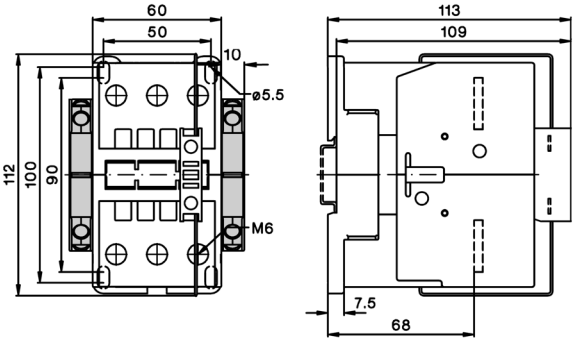
J7KN-24/32/40...D



J7KNG-24/32/40...D

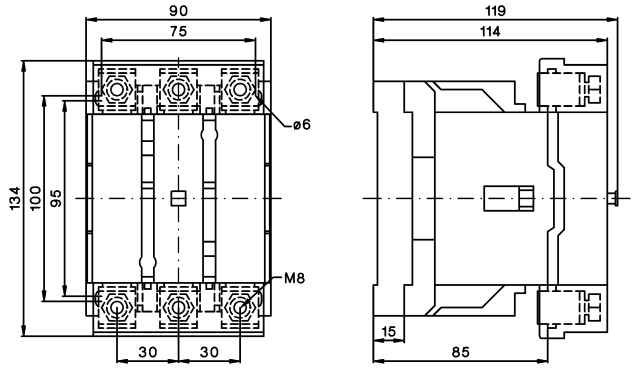


J7KN-50/62/74...D

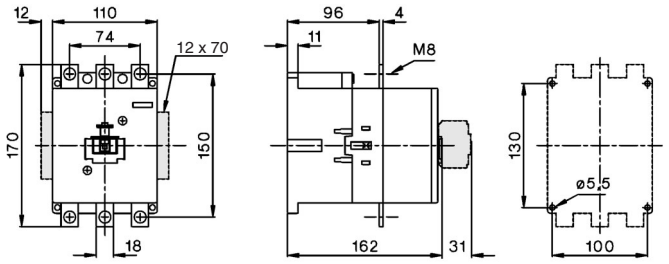


AC and DC operated

J7KN-85...
J7KN-110...

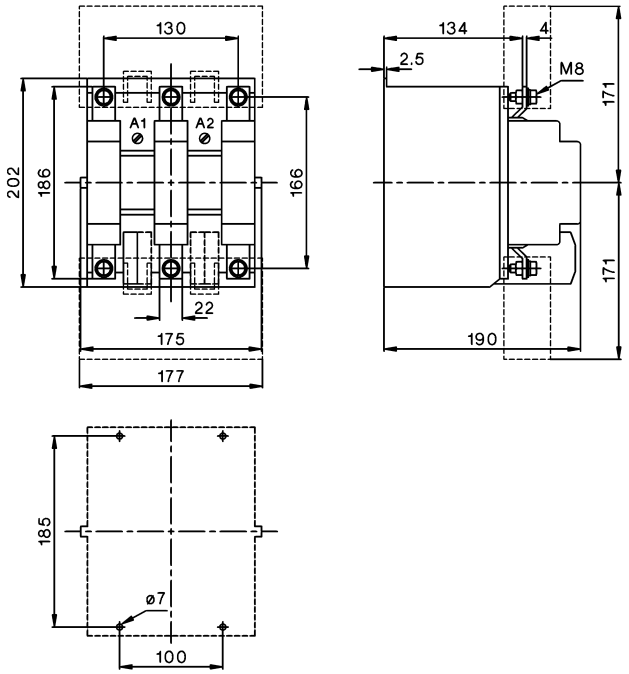


J7KN-151...
J7KN-176...



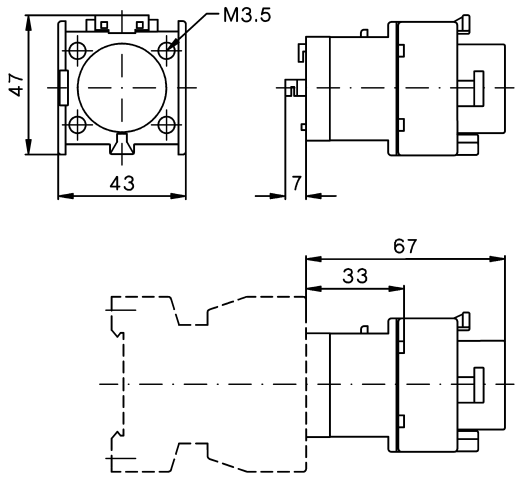
Auxiliary contacts are optional

J7KN-200...



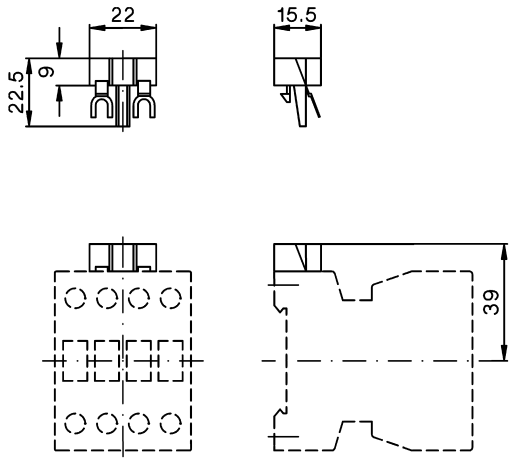
Pneumatic timer

J74KN-B-TP...

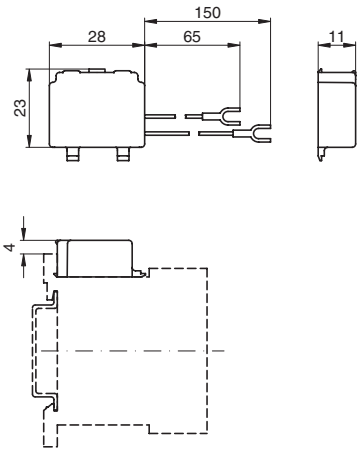


Auxiliary contact blocks

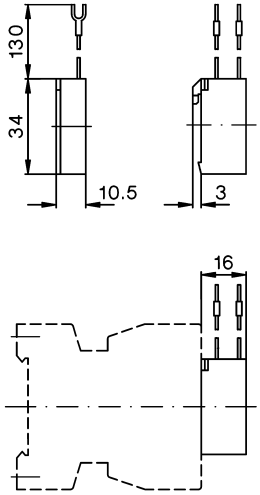
J74KN-A-VG



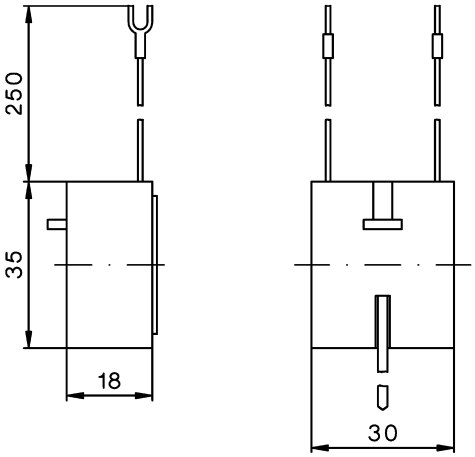
J74KN-D



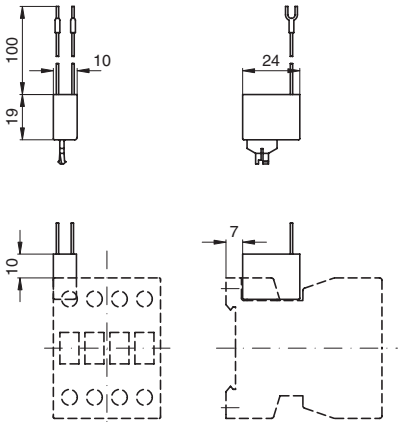
J74KN-B-VG



J74KN-B-RC



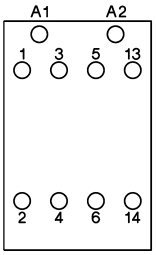
J74KN-C



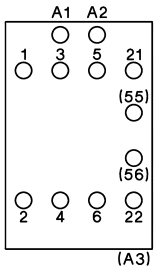
Position of Terminals

AC operated

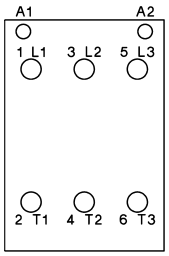
J7KN-10-10
to
J7KN-22-10



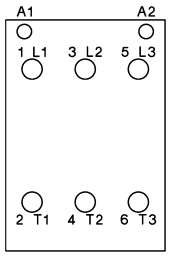
J7KN-10-01
to
J7KN-22-01



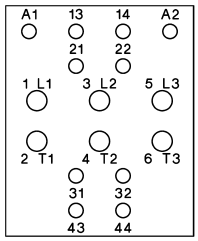
J7KN-24
J7KN-32
J7KN-40



J7KN-50
J7KN-62
J7KN-74

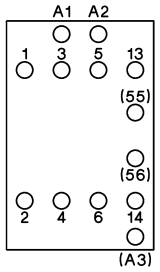


J7KN-85-22
J7KN-110-22

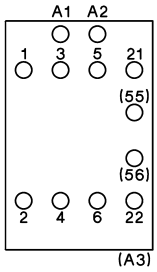


DC operated with double winding coil

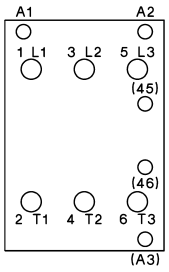
J7KN-10-10...D
J7KN-14-10...D
J7KN-18-10...D
J7KN-22-10...D



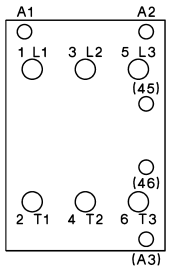
J7KN-10-01...D
J7KN-14-01...D
J7KN-18-01...D
J7KN-22-01...D



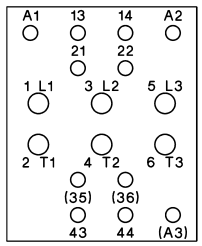
J7KN-24...D
J7KN-32...D
J7KN-40...D



J7KN-50...D
J7KN-62...D
J7KN-74...D

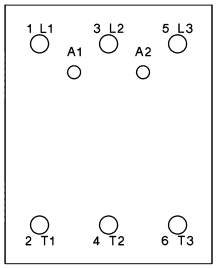


J7KN-85-21...D
J7KN-110-21...D

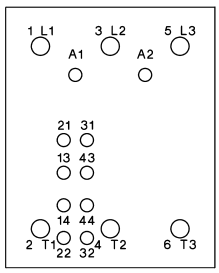


AC and DC operated

J7KN-151
J7KN-176

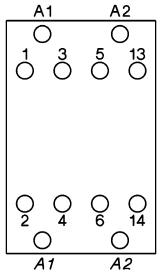


J7KN-200-21



DC operated

J7KNG-10-10
J7KNG-14-10
J7KNG-18-10
J7KNG-22-10



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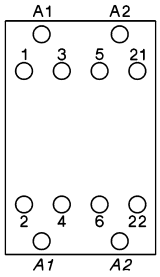
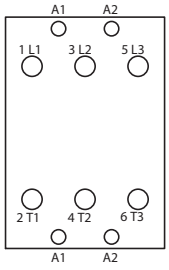


J7KNG-24
J7KNG-32
J7KNG-40



Do not use/install these products before having read the applicable precautions as listed in Cat. No. J09-EN-01 available from www.europe.omron.com or on request from OMRON local sales office.

OMRON

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    b. Such carrier shall act as the agent of Buyer and delivery to such carrier shall constitute delivery to Buyer;
    c. All sales and shipments of Products shall be FOB shipping point (unless otherwise stated in writing by Omron), at which point title and risk of loss shall pass from Omron to Buyer; provided that Omron shall retain a security interest in the Products until the full purchase price is paid;
    d. Delivery and shipping dates are estimates only; and
    e. Omron will package Products as it deems proper for protection against normal handling and extra charges apply to special conditions.
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17. Export Controls. Buyer shall comply with all applicable laws, regulations and licenses regarding (i) export of products or information; (iii) sale of products to "forbidden" or other proscribed persons; and (ii) disclosure to non-citizens of regulated technology or information.
18. Miscellaneous. (a) Waiver. No failure or delay by Omron in exercising any right and no course of dealing between Buyer and Omron shall operate as a waiver of rights by Omron. (b) Assignment. Buyer may not assign its rights hereunder without Omron's written consent. (c) Law. These Terms are governed by the law of the jurisdiction of the home office of the Omron company from which Buyer is purchasing the Products (without regard to conflict of law principles). (d) Amendment. These Terms constitute the entire agreement between Buyer and Omron relating to the Products, and no provision may be changed or waived unless in writing signed by the parties. (e) Severability. If any provision hereof is rendered ineffective or invalid, such provision shall not invalidate any other provision. (f) Setoff. Buyer shall have no right to set off any amounts against the amount owing in respect of this invoice. (g) Definitions. As used herein, "including" means "including without limitation"; and "Omron Companies" (or similar words) mean Omron Corporation and any direct or indirect subsidiary or affiliate thereof.

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1. Suitability of Use. Omron Companies shall not be responsible for conformity with any standards, codes or regulations which apply to the combination of the Product in the Buyer's application or use of the Product. At Buyer's request, Omron will provide applicable third party certification documents identifying ratings and limitations of use which apply to the Product. This information by itself is not sufficient for a complete determination of the suitability of the Product in combination with the end product, machine, system, or other application or use. Buyer shall be solely responsible for determining appropriateness of the particular Product with respect to Buyer's application, product or system. Buyer shall take application responsibility in all cases but the following is a non-exhaustive list of applications for which particular attention must be given:
   (i) Outdoor use, uses involving potential chemical contamination or electrical interference, or conditions or uses not described in this document.
   (ii) Use in consumer products or any use in significant quantities.
   (iii) Energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government regulations.
   (iv) Systems, machines and equipment that could present a risk to life or property. Please know and observe all prohibitions of use applicable to this Product.
   NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY OR IN LARGE QUANTITIES WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON'S PRODUCT IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.
2. Programmable Products. Omron Companies shall not be responsible for the user's programming of a programmable Product, or any consequence thereof.
3. Performance Data. Data presented in Omron Company websites, catalogs and other materials is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of Omron's test conditions, and the user must correlate it to actual application requirements. Actual performance is subject to the Omron's Warranty and Limitations of Liability.
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5. Errors and Omissions. Information presented by Omron Companies has been checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical or proofreading errors or omissions.

Note: This datasheet is provided as a guideline for selecting products. Do not use this document to operate the Unit.

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.
To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

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Cat. No. J06E-EN-01A

Specifications are subject to change without notice.

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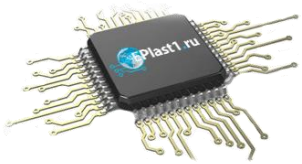
Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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