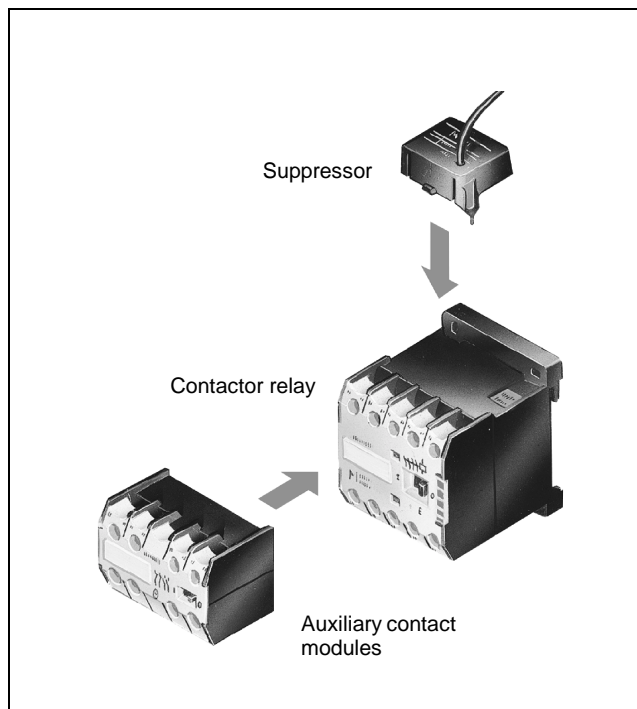


J7K-AR

- AC operated coil: max. of eight contacts.
- AC coil:
0.8 - 1.1 x U_C
25 VA / 4.6 VA
- DC operated coil: max. of eight contacts.
- DC coil:
0.85-1.1 x U_C
2.6 W / 2.6 W
- Interlocked opposing contacts (ZH1/457).
- Suitable for electronic devices.

Fitting:

- Modular system.
- Screw fixing and snap fitting.
- All screws suitable for size 2 pozidriv screwdriver.
- Finger proof.
- Screw terminals.



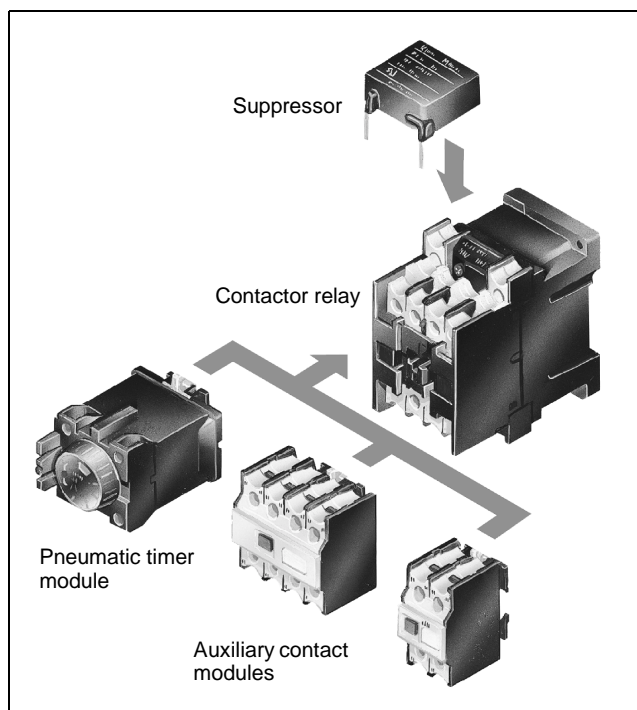
IEC 947, EN 60947  

J7K-BR

- AC operated coil: max. of eight contacts.
- AC coil:
0.8 - 1.1 x U_C
60 VA / 8.5 VA
- DC operated coil: max. of eight contacts.
- DC coil:
0.85-1.1 x U_C
9.5 W / 9.5 W
- Interlocked opposing contacts (ZH1/457).
- Suitable for electronic devices.

Fitting:

- Modular system (complete units).
- Screw fixing and snap fitting.
- All screws suitable for size 2 pozidriv screwdriver.
- Finger proof.
- Screw terminals.
- Single coil for BR-version (AC and DC).



IEC 947, EN 60947  

Ordering Information

Model Number Legend:

Contactor relays:

J7K- j j - j - j j
 1 2 3 4 5

- 1. Frame size:**
A or B
- 2. Application:**
R: contactor relay
- 3. Internal auxiliary contacts:**
In case of version -AR: 40, 31, 22
In case of version -BR: 40, 31, 22, 53C
(53C, overlapping contacts)
- 4. Coil type:**
D if DC
- 5. Coil voltage and frequency:**
If AC, ex. "(230V 50Hz / 240V 60Hz)"
If DC, ex. "(24VDC)"

Standard voltages:

AC 24V 50 Hz
 48V 50 Hz
 110V 50Hz / 120V 60Hz
 230V 50Hz / 240 V 60Hz
 415V 50Hz / 480V 60Hz
 110V 50Hz / 60Hz
 230V 50Hz / 60Hz
 DC 24VDC
 48VDC
 60VDC
 220VDC

Auxiliary contact modules:

J73K- j - j
 1 2

- 1. Frame size:**
Correspond to contactor relay frame A or B
- 2. Contact configuration:**
11, 22, 02, etc.

Accessories:

J7K- j - j
 1 2

- 1. Frame size of the contactor:**
Case of contactor relay A or B
- 2. Type of Accessories:**

Version -AR

RC 250: RC suppressor 250VAC
 VG 250: Varistor suppressor 250V
 MV: Mechanical interlock

Version -BR

RC 250: RC suppressor 250VAC
 FD: Diode suppressor
 VG 250: Varistor suppressor 250V
 VG 415: Varistor suppressor 415V
 MV: Mechanical interlock
 PTD-11: Pneumatic timer module (Off-delayed)
 PTE-11: Pneumatic timer module (On-delayed)

Single coils:

(For B-Version only!)

J7KB-IC - j - j
 1 2

- 1. Coil type:**
AC or DC
(AC = none, DC = D)
- 2. Coil voltages**

Standard voltages:

AC 24V 50 Hz
 48V 50 Hz
 110V 50Hz / 120V 60Hz
 230V 50Hz / 240 V 60Hz
 415V 50Hz / 480V 60Hz
 110V 50Hz / 60Hz
 230V 50Hz / 60Hz
 DC 24VDC
 48VDC
 60VDC
 220VDC

Available types

J7K-AR

Voltage	Mini contactor relays	
AC	J7K-AR-22	230V 50Hz / 240V 60Hz
		110V 50Hz / 120V 60Hz
		415V 50Hz / 480V 60Hz
		110V 50 / 60Hz
		230V 50 / 60Hz
		24V 50Hz
		48V 50 Hz
	J7K-AR-31	230V 50Hz / 240V 60Hz
		110V 50Hz / 120V 60Hz
		415V 50Hz / 480V 60Hz
		110V 50 / 60Hz
		230V 50 / 60Hz
		24V 50Hz
		48V 50 Hz
	J7K-AR-40	230V 50Hz / 240V 60Hz
		110V 50Hz / 120V 60Hz
		415V 50Hz / 480V 60Hz
		110V 50 / 60Hz
		230V 50 / 60Hz
		24V 50Hz
		48V 50 Hz
DC	J7K-AR-22-D	24VDC
		48VDC
		60VDC
		220VDC
	J7K-AR-31-D	24VDC
		48VDC
		60VDC
		220VDC
	J7K-AR-40-D	24VDC
		48VDC
		60VDC
		220VDC

J7K-BR

Voltage	Contactor relays	
AC	J7K-BR-22	230V 50Hz / 240V 60Hz
		110V 50Hz / 120V 60Hz
		415V 50Hz / 480V 60Hz
		110V 50 / 60Hz
		230V 50 / 60Hz
		24V 50Hz
		48V 50 Hz
	J7K-BR-31	230V 50Hz / 240V 60Hz
		110V 50Hz / 120V 60Hz
		415V 50Hz / 480V 60Hz
		110V 50 / 60Hz
		230V 50 / 60Hz
		24V 50Hz
		48V 50 Hz
	J7K-BR-40	230V 50Hz / 240V 60Hz
		110V 50Hz / 120V 60Hz
		415V 50Hz / 480V 60Hz
		110V 50 / 60Hz
		230V 50 / 60Hz
		24V 50Hz
		48V 50 Hz
J7K-BR-53C	230V 50Hz / 240V 60Hz	
	110V 50Hz / 120V 60Hz	
	415V 50Hz / 480V 60Hz	
	110V 50 / 60Hz	
	230V 50 / 60Hz	
	24V 50Hz	
	48V 50 Hz	
DC	J7K-BR-22-D	24VDC
		48VDC
		60VDC
		220VDC
	J7K-BR-31-D	24VDC
		48VDC
		60VDC
		220VDC
	J7K-BR-40-D	24VDC
		48VDC
		60VDC
		220VDC
	J7K-BR-53C-D	24VDC
		48VDC
60VDC		
220VDC		




Single coils for J7K-BR system

Voltage	Single coil	
AC	J7KB-IC	24V 50Hz
		48V 50Hz
		110V 50 / 60Hz
		230V 50 / 60Hz
		415V 50Hz
DC	J7KB-IC-D	24VDC
		48VDC
		60VDC
		110VDC
		220VDC

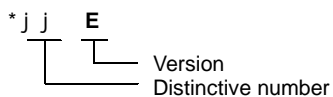
System overview



■ Contactor relays with interlocked opposing contacts

J7K-AR (coil AC operated)




Article No.	Contacts M=Make B=Break	Rated operational current I _e AC-15		Conventional thermal current I _{th}	Terminal markings Coil to EN 50005 Basic units + modules Contacts to EN 50011, EN 50005			Std. pack
		220 V 230 V 240 V	380 V 400 V 415 V					
 Basic units Voltage tolerance of the coil 0.80 to 1.1 x U _C Contacts to EN 50011								
J7K-AR-40	4M -	6 A	3 A	10 A				5
J7K-AR-31	3M 1B	6 A	3 A	10 A				5
J7K-AR-22	2M 2B	6 A	3 A	10 A				5
 2-pole, auxiliary contact modules					+	+	+	
J73K-A-02	- 2B	4 A	2 A	10 A				5
J73K-A-11	1M 1B	4 A	2 A	10 A				5
J73K-A-20	2M -	4 A	2 A	10 A				5
 4-pole, auxiliary contact modules					or	or	or	
J73K-A-04	- 4B	4 A	2 A	10 A				5
J73K-A-22	2M 2B	4 A	2 A	10 A				5
J73K-A-40	4M -	4 A	2 A	10 A				5

Note:

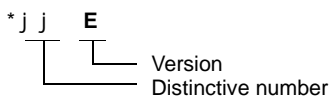


-  = Version E combinations correspond to EN 50011 and are to be preferred.
-  = The other combinations correspond to EN 50005.

J7K-AR (coil DC operated)

Article No.	Contacts M=Make B=Break	Rated operational current I_e AC-15		Conventional thermal current I_{th}	Terminal markings		Std. pack
		220 V 230 V 240 V	380 V 400 V 415 V		Coil to EN 50005	Basic units + modules Contacts to EN 50011, EN 50005	
 Basic units, coil rating 2.6 W Voltage tolerance of coil: $0.85-1.1 \times U_c$ Integral resistor/diode combination							
J7K-AR-40-D	4M -	6 A	3 A	10 A			5
J7K-AR-31-D	3M 1B	6 A	3 A	10 A			5
J7K-AR-22-D	2M 2B	6 A	3 A	10 A			5
 2-pole, auxiliary contact modules							
J73K-A-02	- 2B	4 A	2 A	10 A			5
J73K-A-11	1M 1B	4 A	2 A	10 A			5
J73K-A-20	2M -	4 A	2 A	10 A			5
 4-pole, auxiliary contact modules							
J73K-A-04	- 4B	4 A	2 A	10 A			5
J73K-A-22	2M 2B	4 A	2 A	10 A			5
J73K-A-40	4M -	4 A	2 A	10 A			5

Note:



 = Version E combinations correspond to EN 50011 and are to be preferred.

 = The other combinations correspond to EN 50005.

J7K-BR (coil AC operated)

Article No.	Contacts M=Make B=Break	Rated operational current I_e AC-15		Conventional thermal current I_{th}	Terminal markings Coil to EN 50005 Basic units + modules Contacts to EN 50011, EN 50005	Std. pack
		220 V 230 V 240 V	380 V 400 V 415 V			



Basic units

J7K-BR-40 (Supplied without front plate)	4M -	6 A	4 A	16 A		40 E*		1
J7K-BR-31	3M 1B	6 A	4 A	16 A		31 E*		1
J7K-BR-22	2M 2B	6 A	4 A	16 A		22 E*		1



2-pole, auxiliary contact modules

+

+

+

J73K-B-02	- 2B	6 A	4 A	16 A		= 42 E*		= 33		= 24	5
J73K-B-11	1M 1B	6 A	4 A	16 A		= 51 E*		= 42		= 33	5
J73K-B-20	2M -	6 A	4 A	16 A		= 60 E*		= 51		= 42	5



4-pole, auxiliary contact modules

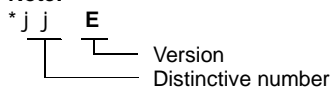
or

or

or

J73K-B-04	- 4B	6 A	4 A	16 A		= 44 E*		= 35		= 26	5
J73K-B-13	1M 3B	6 A	4 A	16 A		= 53 E*		= 44		= 35	5
J73K-B-22	2M 2B	6 A	4 A	16 A		= 62 E*		= 53		= 44	5
J73K-B-31	3M 1B	6 A	4 A	16 A		= 71 E*		= 62		= 53	5
J73K-B-40	4M -	6 A	4 A	16 A		= 80 E*		= 71		= 62	5


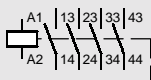
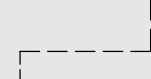
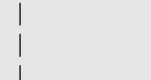

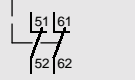
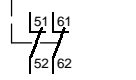
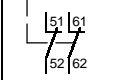
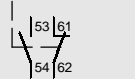
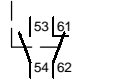
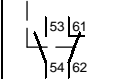
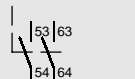
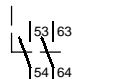
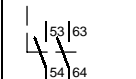

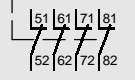
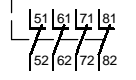
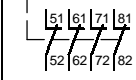
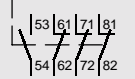
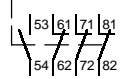
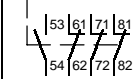
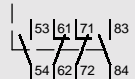
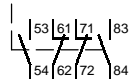
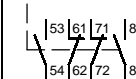
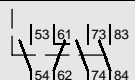
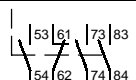
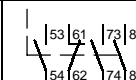
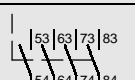
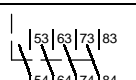
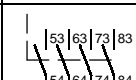
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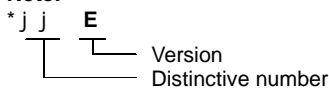
= Version E combinations correspond to EN 50011 and are to be preferred.

= The other combinations correspond to EN 50005.


J7K-BR (coil DC operated)

Article No.	Contacts M=Make B=Break	Rated operational current I _e AC-15		Conventional thermal current I _{th}	Terminal markings Coil to EN 50005 Basic units + modules Contacts to EN 50011, EN 50005			Std. pack			
		220 V	380 V								
		230 V	400 V								
		240 V	415 V								
 Basic units											
J7K-BR-40-D (Supplied without front plate)	4M -	6 A	4 A	16 A		40 E*		1			
J7K-BR-31-D	3M 1B	6 A	4 A	16 A		31 E*		1			
J7K-BR-22-D	2M 2B	6 A	4 A	16 A		22 E*		1			
 2-pole, auxiliary contact modules											
					+	+	+				
J73K-B-02	- 2B	6 A	4 A	16 A		= 42 E*		= 33		= 24	5
J73K-B-11	1M 1B	6 A	4 A	16 A		= 51 E*		= 42		= 33	5
J73K-B-20	2M -	6 A	4 A	16 A		= 60 E*		= 51		= 42	5
 4-pole, auxiliary contact modules											
					or	or	or				
J73K-B-04	- 4B	6 A	4 A	16 A		= 44 E*		= 35		= 26	5
J73K-B-13	1M 3B	6 A	4 A	16 A		= 53 E*		= 44		= 35	5
J73K-B-22	2M 2B	6 A	4 A	16 A		= 62 E*		= 53		= 44	5
J73K-B-31	3M 1B	6 A	4 A	16 A		= 71 E*		= 62		= 53	5
J73K-B-40	4M -	6 A	4 A	16 A		= 80 E*		= 71		= 62	5



Note:



 = Version E combinations correspond to EN 50011 and are to be preferred.

 = The other combinations correspond to EN 50005.

Coil DC operated

Article No.	Contacts M=Make B=Break	Rated operational current I _e AC-15		Conventional thermal current I _{th}	Terminal markings Coil to EN 50005 Basic units + modules Contacts to EN 50011, EN 50005			Std. pack
		220 V	380 V					
		230 V	400 V					
		240 V	415 V					
 Basic units, coil DC operated								
J7K-BR-40-D (Supplied without front plate)	4M -	6 A	4 A	16 A				1
J7K-BR-31-D	3M 1B	6 A	4 A	16 A				1
J7K-BR-22-D	2M 2B	6 A	4 A	16 A				1
 Time range of 0.2-30 s and 20-180 s, selectable					+	+	+	
J7KB-PTE-11 On-delayed	1M 1B	4 A	4 A	10 A				1
J7KB-PTD-11 Off-delayed	1M 1B	4 A	4 A	10 A				1

Note:

* j j E
 └───┬─── Version
 └───┴─── Distinctive number


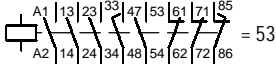
 = Version E combinations correspond to EN 50011 and are to be preferred.

 = The other combinations correspond to EN 50005.

■ Contactor relays with coil AC operated or coil DC operated


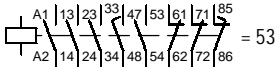
J7K-BR (coil AC operated)

With one early-make contact and one late-break contact

Article No.	Contacts M=Make B=Break	Rated operational current I_e AC-15		Conventional thermal current I_{th}	Terminal markings Coil to EN 50005	Std.
		220 V 230 V 240 V	380 V 400 V 415 V			
 Complete units						
J7K-BR-53C	5M 3B	6 A	4 A	16 A		1

J7K-BR (coil DC operated)


With one early-make contact and one late-break contact

Article No.	Contacts M=Make B=Break	Rated operational current I_e AC-15		Conventional thermal current I_{th}	Terminal markings Coil to EN 50005	Std.
		220 V 230 V 240 V	380 V 400 V 415 V			
 Complete units						
J7K-BR-53C-D	5M 3B	6 A	4 A	16 A		1

■ Accessories




Varistor suppressors

Article No.		Voltage	For use with contactor relays	Note	Std. pack
J7KA-VG250		110-250 VAC	J7K-AR	For AC operated 50-60 Hz contactor relays. The suppressor is fitted as standard in DC operated contactor relays.	10
J7KB-VG250		110-250V AC/DC	J7K-BR	For AC operated 50-60 Hz and DC operated contactor relays.	10
J7KB-VG415		380-415V AC/DC			10

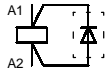


RC Suppressors

Article No.		Voltage	For use with contactor relays	Note	Std. pack
J7KA-RC250		110-250 VAC	J7K-AR	For AC operated 50-60 Hz contactor relays. Please note the drop-out time.	1
J7KB-RC250		110-250 VAC	J7K-BR		1



Free wheel diode suppressors

Article No.		Voltage	For use with contactor relays	Note	Std.
J7KB-FD250		12-250 VDC	J7K-BR	For DC operated contactor relays. Please note the drop-out time.	10



Mechanical interlock

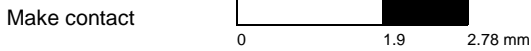
Article No.	For use with contactor relays	Note	Std.
J7KA-MV	J7K-AR	For two AC or DC operated contactor relays, mounted vertically or horizontally. Distance between contactor relays: 0 mm. Mechanical lifespan: 2.5 x 10 ⁶ operations.	5

■ Contact travel diagrams for contactor relays

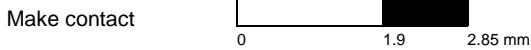
The diagrams shows the closing and opening travel of the auxiliary contacts of contactor relays and modules at no-load. Tolerances are not taken into consideration.

J7K-AR

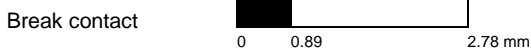
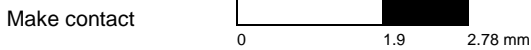
J7K-AR-.. (AC)



J7K-AR-..-D (DC)

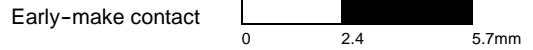
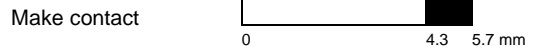


J73K-A-..

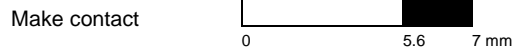


J7K-BR

J7K-BR-..



J73K-B-..



J7KB-PTE-11



Specifications

General

Typ			J7K-AR	J7K-AR-D	J7K-BR, J73K-A-..	J7KB-PTD-11 J7KB-PTE-11
Standards			IEC 947, EN 60947, UL, CSA			
Mechanical lifespan	AC operated		10 x 10 ⁶ Ops.	-	20 x 10 ⁶ Ops.	1 x 10 ⁶ Ops.
	DC operated		-	20 x 10 ⁶ Ops.	20 x 10 ⁶ Ops.	1 x 10 ⁶ Ops.
Max. operating frequency mechanical	AC operated		9000 Ops./h	-	7000 Ops./h	3600 Ops./h
	DC operated		-	9000 Ops./h	7000 Ops./h	3600 Ops./h
Climatic proofing			Damp heat, constant, to IEC 68 Part 2 - 3			
			Damp heat, cyclic, to IEC 68 Part 2 - 30			
Ambient temperature	Open	min./max.	-25/+50 °C	-20/+50 °C	-25/+50 °C	-25/+50 °C
Mounting position			As required, except vertical with A1/A2 at bottom		As required ¹⁾	
Mechanical shock resistance sinusoidal: 10 ms	Basic unit	Make/break contact	10/8 g	10/8 g	-	-
	Basic unit with auxiliary contact module		10/8 g	10/8 g	-	-
Mechanical shock resistance sinusoidal: 20 ms		Make/break contact	-	-	10/6 g	10/6 g
Degree of protection			IP20	IP20	IP20 (J7K-BR); IP00 (J73K-A-..)	IP00
Protection against direct contact from front when actuated by a perpendicular test finger (IEC536)			Finger- and back-of-hand proof			
Terminal capacity	Solid	min.	2 x 0.75 mm ²	2 x 0.75 mm ²	1 x (0.75-4) mm ²	1 x (0.5-2.5) mm ²
		max.	2 x 2.5 mm ²	2 x 2.5 mm ²	2 x (0.75-4) mm ²	2 x (0.5-2.5) mm ²
	Flexible with ferrule to DIN 46228	min.	-	-	1 x (0.75-2.5) mm ²	1 x (0.5-1.5) mm ²
		max.	2 x 1.5 mm ²	2 x 1.5 mm ²	2 x (0.75-2.5) mm ²	2 x (0.5-0.75) mm ²
	Solid or stranded		AWG 18-14	AWG 18-14	AWG 18-10	AWG 18-14
	Terminal screw		M 3.5	M 3.5	M 3.5	M 3
	Pozidriv screwdriver		Size 2			
Standard screwdriver		(0.8 x 5.5) mm (1 x 6) mm				
Tightening torque (max.)			1.2 Nm			

Note: 1. J7K-BR-D+ PTD(E) do not mount vertically.

Contacts

Typ		J7K-AR	J7K-AR-D	J7K-BR, J73K-A-..	J7KB-PTD-11 J7KB-PTE-11		
Interlocked opposing contacts to ZH 1/457, including auxiliary contact module		+	+	+	+		
Rated impulse withstand voltage U_{imp}		6000 V	6000 V	8000 V	8000 V		
Overvoltage category/pollution degree		III/3					
Rated insulation voltage U_i		690 VAC					
Rated operational voltage U_e		600 VAC	600 VAC	500 VAC	500 VAC		
"Safe isolation" to DIN VDE 0106 Parts 101 and 101 A1 between coil and auxiliary contacts and between auxiliary contacts		300 VAC	300 VAC	440 VAC	-		
Rated operational current I_e AC-15	220/240 V	6 A (4 A) ¹⁾	6 A (4 A) ¹⁾	6 A	4 A		
	380/415 V	3 A (2 A) ¹⁾	3 A (2 A) ¹⁾	4 A	4 A		
	500 V	1.5 A			-		
Rated operational current I_e DC-13 ²⁾ (Above 110 V and at $L/R > 15$ ms it is essential that an arc-quenching device (RC suppressor) be used in parallel with the contacts). Required capacitor 1 μ F and resistor 0.5 Ω in series.	L/R \leq 15 ms, e.g. contactor coils, solenoid valves, DC motors:	1 contact in series at 24 V	2.5 A	2.5 A	10 A	10 A	
		2 (1) contacts in series at 60 V	2.5 A	2.5 A	10 A (6) A	(6) A	
		2 (1) contacts in series at 110 V	-	-	6 A (3) A	(3) A	
		3 contacts in series at 110 V	1.5 A	1.5 A	-	-	
	L/R \leq 50 ms, e.g. magnetic clutches, solenoid brakes	3 (1) contacts in series at 220 V	0.5 A	0.5 A	5 A (1) A	(1) A	
		2 (1) contacts in series at 24 V	-	-	6 A	(4) A	
		2 (1) contacts in series at 60 V	-	-	6 A	(4) A	
		3 (1) contacts in series at 110 V	-	-	3 A (1.5) A	(1) A	
3 (1) contacts in series at 220 V	-	-	2 A (1) A	(0.5) A			
Control circuit reliability $U_e = 24$ VDC, 17 V, 5.4 mA	Error rate H_F	$< 10^{-8}$, < 1 fault in 100 million operations					
Conventional free air thermal current I_{th}		10 A	10 A	16 A	10 A		
Short-circuit rating when taken directly from mains or transformer > 1000 VA, without welding	Maximum overcurrent protective device	220/240 V	J7M-AM-4	J7M-AM-4	J7M-AM-4	J7M-AM-2,4	
		380/415 V	J7M-AM-4	J7M-AM-4	J7M-AM-2,4	J7M-AM-1,6	
	Maximum fuse	500 V	6 A gL			16 A gL	6 A gL
		500 V	10 A fast			-	-
Current heat loss at I_{th} per contact (max.)		0.2 W	0.3 W	0.8 W	0.3 W		

- Note:** 1. Auxiliary contact module
2. Making and breaking currents to DC-13, time constant as stated

Magnet system

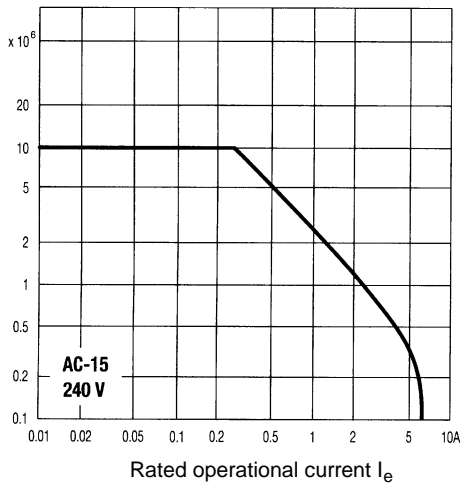
Typ			J7K-AR	J7K-AR-D	J7K-BR, J73K-A-..
Pick-up and drop-out values	AC operated, single voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz	Pick-up	$0.8 - 1.1 \times U_c$	-	$0.8 - 1.1 \times U_c$
	AC operated, dual-frequency coil, ...V, 50 Hz, 60 Hz	Pick-up	$0.85 - 1.1 \times U_c$	-	$0.85 - 1.1 \times U_c$
	DC operated ¹⁾	Pick-up	-	$0.85 - 1.1 \times U_c$	$0.85 - 1.1 \times U_c$
Power consumption of coil at 100 % U_c	AC operated, single voltage coil 50 Hz and dual-voltage coil 50 Hz, 60 Hz	Pick-up	25 VA/22 W	-	67 VA/52 W
		Sealing	4.6 VA/1.3 W	-	8.5 VA/2.5 W
	AC operated, dual-frequency coil, ...V, 50/60 Hz at 50 Hz	Pick-up	30 VA/26 W	-	-
		Sealing	5.4 VA/1.6 W	-	-
	AC operated, dual-frequency coil, ...V, 50/60 Hz at 60 Hz	Pick-up	29 VA/24 W	-	-
		Sealing	3.9 VA/1.1 W	-	-
Power consumption of coil at 100 % U_c	AC operated, dual-frequency coil, ...V, 50/60 Hz	Pick-up	-	-	67 VA/52 W
		Sealing	-	-	8.5 VA/2.5 W
	DC operated ¹⁾	Pick-up	-	2.6 W	9.5 W
		Sealing	-	2.6 W	9.5 W
Duty factor			100 % DF		
Switching times at 100 % U_c (Approximate values)		Closing delay	14 - 21 ms	26 - 35 ms	22-38 ms
Make contacts		Opening delay	8 - 18 ms	15 - 25 ms	14-9 ms (AC/DC operated)
With auxiliary contact module		Closing delay	max. 45 ms	max. 70 ms	-
Coil 50/60 Hz, mechanical lifespan (only J7K-BR, J73K-A-..)			-	-	At 50 Hz, approximately 30 % less than the figure shown under "General".

Note: 1. Smoothed DC or three-phase bridge rectifier required

Engineering Data

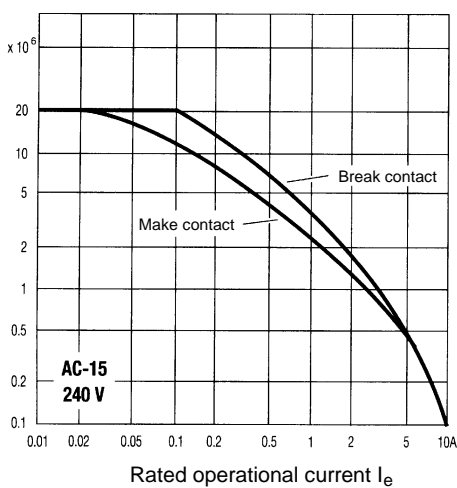
J7K-AR, AC-15

Component lifespan (ops.)



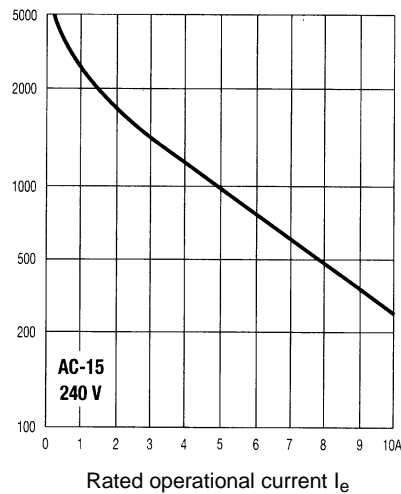
J7K-BR, AC-15

Component lifespan (ops.)



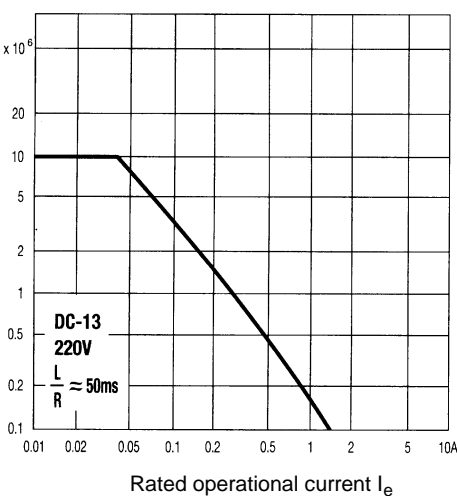
J7K-BR, AC-15

Ops./h max. switching frequency (approx.)



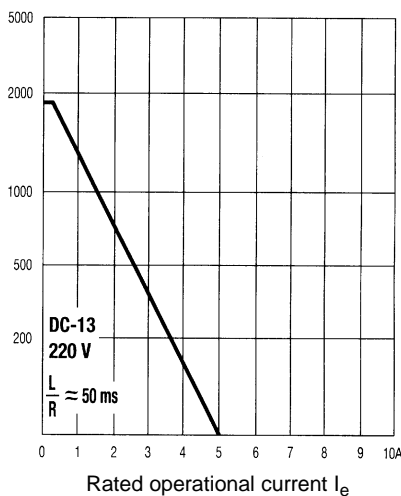
J7K-BR, DC-13 (see note)

Component lifespan (ops.)



J7K-BR, DC-13 (see note)

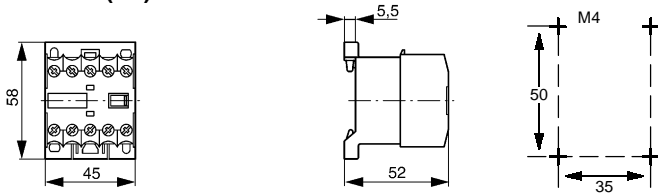
Ops./h max. switching frequency (approx.)



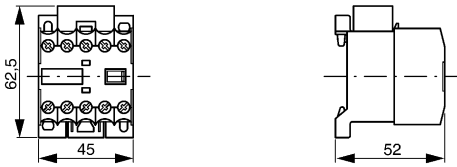
Note: Making and breaking current to DC-13, time constant as stated.

Dimensions (mm)

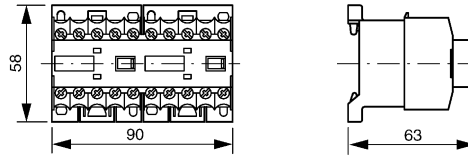
J7K-AR(-D)



J7K-AR + J7KA-VG / J7KA-RC



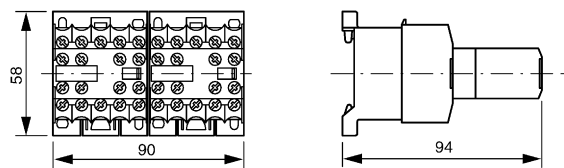
2 x J7K-AR(-D) + J7KA-MV



J7K-AR(-D) + J73K-A

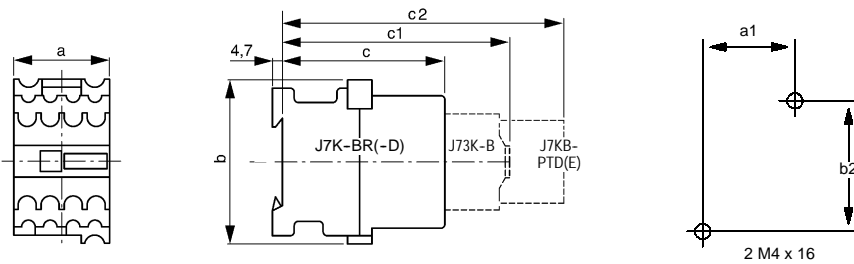


2 x J7K-AR(-D) + J7KA-MV + J73K-A



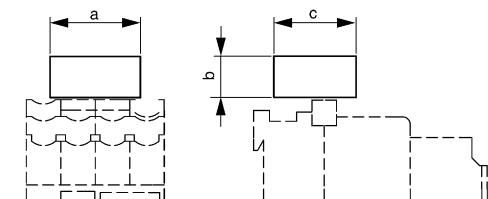
J7K-BR(-D) + J73K-B

J7K-BR(-D) + J7KB-PTD(E)-11



	J7K-	BR-..	BR-...-D	BR-.. + J73K-B	BR-...-D + J73K-B	BR-.. + J73KB-PTD(E)	BR-...-D + J73KB-PTD(E)
a	45	45	45	45	-	-	-
a1	35	35	35	35	-	-	-
b	77	77	77	77	-	-	-
b2	60	60	60	60	-	-	-
c (with shroud)	76.5	101.5	-	-	-	-	-
c (without shroud)	74	99	-	-	-	-	-
c1	-	-	107	132	-	-	-
c2	-	-	-	-	136	161	-

J7K-RC / J7KB-VG / J7KB-FD



	RC/VG/FD
a	33
b	15
c	30

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.
To convert millimeters into inches or grams into ounces, please see page 107.