

Contactor & Overload Relay



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AC Contactor series

AC Contactors, 3P



CJX2-N series (New model)

AC Contactors, 3P



CJX2-D series (Old model)

AC Contactor, 3P



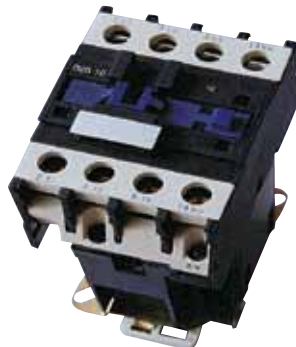
CJX2-F series

AC Contactors, 2P/4P



CJX2-D series

DC Contactors



CJX2-Z series

Reversing Contactors



CJX2-N series

Capacitor switching contactors



CJ19 series

AC Contactors



CJX1 series

AC Contactors



CJX5 series

Mini Contactor series

Mini Contactors



CJX2-K series

Mini Contactors



CJX2-E series

Thermal Overload Relay series

Thermal Overload Relay



JRS1-D series

Thermal Overload Relay



JRS2 series

Thermal Overload Relay



JRS5 series

Starter series

Magnetic starters



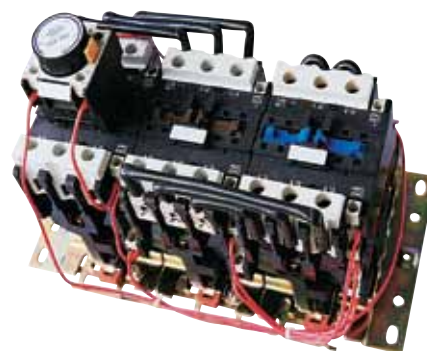
QCX2 series

Magnetic starters



QCX5 series

Star-delta starters



LC3-D series

AC CONTACTOR CJX2(NEW)

CJX2-N series AC contactors are suitable for frequency 50/60Hz, rated insulation voltage up to 1000V, rated operation current 9~150A under AC-3 duty. It is mainly used for breaking electric circuits at a long distance and for frequent starting, stopping & controlling AC Motors. It is used in combination with thermal relay to compose a magnetic motor starter. The products comply with IEC60947-4.



Type Ref.	CJX2-N09	CJX2-N12	CJX2-N18	CJX2-N25	CJX2-N32
Rated Operational Current					
Ie max AC-3(200-220V)	11A	15A	22A	30A	40A
Ie max AC-3(380-440V)	9A	12A	18A	25A	32A
Ie max AC-3(500-550V)	7A	9A	12A	18A	21A
Rated Power KW/HP (AC-3)					
200V-220V	9A	12A	18A	25A	32A
380V-440V	9A	12A	18A	25A	32A
500V-550V	9A	12A	18A	25A	32A
Rated heating current Ith	18A	18A	25A	40A	40A
Rated Insulated Voltage Ui	660V	660V	660V	660V	660V
Contact arrangement	1NO+1NC				
Rated current (AC-3) 200V-220V	1.6A				
380-440V	0.95A				
Rated heating current Ith:	16A				



CJX2-N40 CJX2-50 CJX2-65 CJX2-N80 CJX2-N95 CJX2-N115 CJX2-N150

50A	60A	75A	90A	110A	125A	160A
40A	50A	65A	80A	95A	115A	150A
34A	39A	42A	50A	65A	85A	110A

40A	50A	65A	80A	95A	115A	150A
40A	50A	65A	80A	95A	115A	150A
40A	50A	65A	80A	95A	115A	150A
60A	80A	80A	110A	130A	145A	160A
660V	660V	660V	660V	660V	660V	660V

AC Contactors CJX2-D (Old Model)

APPLICATION

CJX2 series AC contactor is used for long-distance making and breaking in circuit with frequency 50Hz or 60Hz, rated voltage to 660V and rated current up to 620A. The item, in combination with thermal relay, protects circuit against overload as electromagnetism starter. It also functions as delay-type, reversible contactor and star-delta starter when combined with auxiliary contact group, air delayer and mechanical interlocking device.

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3						Rated operating current		Instantaneous auxiliary contacts	Basic reference Complete with code indicating control circuit voltage Fixing
220V 380V 660V up to						AC-3	AC-1		
KW	KW	KW	KW	KW	KW	A	A		
2.2	4	4	4	5.5	5.5	9	25	1 -	CJX2-0910
								- 1	CJX2-0901
3	5.5	5.5	5.5	7.5	7.5	12	25	1 -	CJX2-1210
								- 1	CJX2-1201
4	7.5	9	9	10	10	18	32	1 -	CJX2-1810
								- 1	CJX2-1801
5.5	11	11	11	15	15	25	40	1 -	CJX2-2510
								- 1	CJX2-2501
7.5	15	15	15	18.5	18.5	32	50	1 -	CJX2-3210
								- 1	CJX2-3201
11	18.5	22	22	22	30	40	60	1 1	CJX2-4011
15	22	25	30	30	33	50	80	1 1	CJX2-5011
18.5	30	37	37	37	37	65	80	1 1	CJX2-6511
22	37	45	45	55	45	80	125	1 1	CJX2-8011
25	45	45	45	55	45	95	125	1 1	CJX2-9511
30	55	59	59	75	80	115	200	- -	CJX2-115
40	75	80	80	90	100	150	250	- -	CJX2-150
55	90	100	100	110	110	170	250	- -	CJX2-170
63	110	110	110	129	129	205	275	- -	CJX2-205
75	132	132	140	160	160	245	315	- -	CJX2-245
100	160	180	200	200	220	300	400	- -	CJX2-300
110	220	220	240	250	280	410	500	- -	CJX2-410
147	265	280	300	355	375	475	700	- -	CJX2-475
200	335	375	400	400	450	620	1000	- -	CJX2-620



CJX2-D09



CJX2-D32



CJX2-D80



CJX2-D115



CJX2-D245

AC Contactors CJX2-F



Standard power ratings of 3-phase motors 50/60 Hz in category AC-3							Rated operating current		Instantaneous auxiliary contacts 	Basic reference Complete with code indicating control circuit voltage Fixing
220V 380V 660V up to Ø≤40°C							AC-3	AC-1		
KW	KW	KW	KW	KW	KW	A	A			
30	55	59	59	75	80	115	200	-	-	CJX2-F115
40	75	80	80	90	100	150	250	-	-	CJX2-F150
55	90	100	100	110	110	185	275	-	-	CJX2-F185
63	110	110	110	129	129	225	315	-	-	CJX2-F225
75	132	140	140	160	160	265	350	-	-	CJX2-F265
100	160	180	200	200	200	330	400	-	-	CJX2-F330
110	200	220	250	257	280	400	500	-	-	CJX2-F400
147	250	280	295	355	335	500	700	-	-	CJX2-F500
200	335	375	400	400	450	630	1000	-	-	CJX2-F630
220	400	425	425	450	475	780	1600	-	-	CJX2-F780

AC Contactors CJX2-D 2 & 4-Pole




CJX2-25008



CJX2-80004

Non-inductive loads maximum current (<=40°C) utilisation category AC-1	Number of poles		Basic reference Complete with code indicating control circuit voltage
A			
25	4	-	CJX2-12004
	2	2	CJX2-12008
40	4	-	CJX2-25004
	2	2	CJX2-25008
60	4	-	CJX2-40004
	2	2	CJX2-40008
80	4	-	CJX2-65004
	2	2	CJX2-65008
125	4	-	CJX2-80004
	2	2	CJX2-80008

DC Contactors CJX2-Z

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3							Rated operating current AC-3 AC-1 440 V up to <=40°C		Instantaneous auxiliary contacts 	Basic reference Complete with code indicating control circuit voltage Fixing
220V	380V	415V	440V	500V	690V	A	A			
2.2	4	4	4	5.5	5.5	9	25	1 -	CJX2-0910Z	
-	-	-	-	-	-	-	-	- 1	CJX2-0901Z	
3	5.5	5.5	5.5	7.5	7.5	12	25	1 -	CJX2-1210Z	
-	-	-	-	-	-	-	-	- 1	CJX2-1201Z	
4	7.5	9	9	10	10	18	32	1 -	CJX2-1810Z	
-	-	-	-	-	-	-	-	- 1	CJX2-1801Z	
5.5	11	11	11	15	15	25	40	1 -	CJX2-2510Z	
-	-	-	-	-	-	-	-	- 1	CJX2-2501Z	
7.5	15	15	15	18.5	18.5	32	50	1 -	CJX2-3210Z	
-	-	-	-	-	-	-	-	- 1	CJX2-3201Z	
11	18.5	22	22	22	30	40	60	1 1	CJX2-4011Z	
15	22	25	30	30	33	50	80	1 1	CJX2-5011Z	
18.5	30	37	37	37	37	65	80	1 1	CJX2-6511Z	
22	37	45	45	55	45	80	125	1 1	CJX2-8011Z	




CJX2- 2510



CJX2- 9511

Reversing contactors CJX2-N

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3							Rated operating current cat. AC-3 660V up to 440V	Max. operating voltage	No. of instantaneous auxiliary contacts per concator 	Contactors supplied with coil Basic reference. Complete with code indicating control circuit voltage Fixing - Connectio
220V	380V	415V	440V	500V	690V	A				
2.2	4	4	4	5.5	5.5	9	690	- 1	CJX2-N0901	
3	5.5	5.5	5.5	7.5	7.5	12	690	- 1	CJX2-N1201	
4	7.5	9	9	10	10	18	690	- 1	CJX2-N1801	
5.5	11	11	11	15	15	25	690	- 1	CJX2-N2501	
7.5	15	15	15	18.5	18.5	32	690	- 1	CJX2-N3201	
11	18.5	22	22	22	30	40	690	1 1	CJX2-N4011	
15	22	25	30	30	33	50	690	1 1	CJX2-N5011	
18.5	30	37	37	37	37	65	690	1 1	CJX2-N6511	
22	37	45	45	55	45	80	690	1 1	CJX2-N8011	
25	45	45	45	55	45	95	690	1 1	CJX2-N9511	





CJX2-N25



CJX2-N40

Capacitor switching Contactors CJ19



Operating power at 50/60 Hz				Instantaneous auxiliary contacts	Basic reference Complete with code indicating control circuit voltage(2)
≤40°C(1)		≤40°C(1)			
220V 240V KVAR	400V 440V KVAR	220V 240V KVAR	400V 440V KVAR	 	
6.7	12.5	5.5	10	1 1	CJ19-DFK11
				- 2	CJ19-DFK02
8.5	16.7	7.5	13.3	1 1	CJ19-DGK11
				- 2	CJ19-DGK02
10	20	8.5	16.7	1 1	CJ19-DLK11
				- 2	CJ19-DLK02
15	25	10	20	1 1	CJ19-DMK11
				- 2	CJ19-DMK02
20	33.3	15	25	1 2	CJ19-DPK12
25	40	20	30	1 2	CJ19-DTK12
40	60	30	50	1 2	CJ19-DWK12

F4-D Auxiliary contact blocks



References	Contact number
F4-11	1N/O+1N/C
F4-02	2N/C
F4-20	2N/O
F4-22	2N/O+2N/C
F4-31	3N/O+1N/C
F4-13	1N/O+3N/C
F4-40	4N/O
F4-04	4N/C

F5 Time delay auxiliary contact blocks



References	Contact number	Delay type	Range
F5-DT0	1N/O+1N/C	OFF-DELAY	0.1 to 3s
F5-DT2	1N/O+1N/C	ON-DELAY	0.1 to 30s
F5-DT4	1N/O+1N/C	OFF-DELAY	10 to 180s
F5-DR0	1N/O+1N/C	OFF-DELAY	0.1 to 3s
F5-DR2	1N/O+1N/C	OFF-DELAY	0.1 to 30s
F5-DR4	1N/O+1N/C	OFF-DELAY	10 to 180s

AC Contactors CJX1-F

TYPE	Rated operating Current AC-380V (A)	Rated voltage (V)	Standard power ratings of 3-phase motors			
			220V 230V KW	380V 400V KW	500V KW	660V KW
CJX1-F9	9	690	2.4	4	5.5	5.5
CJX1-F12	12	690	3.3	5.5	7.5	7.5
CJX1-F16	16	690	4	7.5	10	11
CJX1-F22	22	690	6.1	11	11	11
CJX1-F32	32	690	8.5	15	21	23
CJX1-F38	38	690	11	18.5	25	23
CJX1-F45	45	690	15	22	30	39
CJX1-F63	63	690	18.5	30	41	55
CJX1-F75	75	690	22	37	50	67
CJX1-F85	85	690	26	45	39	67
CJX1-F110	110	690	37	55	76	100
CJX1-F140	140	690	43	75	98	100
CJX1-F170	170	690	55	90	118	156
CJX1-F205	205	690	64	110	145	156
CJX1-F250	250	690	78	132	178	235
CJX1-F300	300	690	93	160	210	235
CJX1-F400	400	690	125	200	284	375
CJX1-F475	475	690	145	250	329	375



CJX1-F170



CJX1-F40



CJX1-F63



CJX1-F9



CJX1-F16



CJX1-F32

AC Contactors CJX5



CJX5-K12



CJX5-K35



CJX5-K65



CJX5-K20



CJX5-N65



CJX5-K95



CJX5-N95



CJX5-N21



CJX5-N10

Type	Rated operating Current AC-380V (A)	Rated voltage AC-3 (V)	Standard power ratings of 3-phase motors			
			220V 230V KW	380V 400V KW	500V KW	660V KW
CJX5-K10 CJX5-N10	9	660	2.5	4	4	4
CJX5-K11 CJX5-N11	12	660	3.5	5.5	5.5	5.5
CJX5-K12 CJX5-N12	12	660	3.5	5.5	5.5	5.5
CJX5-K20 CJX5-N20	22	660	5.5	11	11	7.5
CJX5-K21 CJX5-N21	22	660	5.5	11	11	7.5
CJX5-K25 CJX5-N25	30	660	7.5	15	15	11
CJX5-K35 CJX5-N35	40	660	11	18.5	18.5	15
CJX5-K50 CJX5-N50	50	660	15	22	22	22
CJX5-K65 CJX5-N65	62	660	18.5	30	30	30
CJX5-K80 CJX5-N80	85	660	22	45	45	45
CJX5-K95 CJX5-N95	105	660	30	55	55	55
CJX5-K125	120	660	37	60	60	60

Cat. No. CJX2-K

CJX2-K series AC contactor is suitable for use in the circuit up to the rate and frequent starting, controlling the AC motor. The addition of auxiliary contact group to the contactor, combined with the proper thermal relay, can act to protect the circuit bound to overload. It conforms to IEC60947-4-1.



CJX2-K09



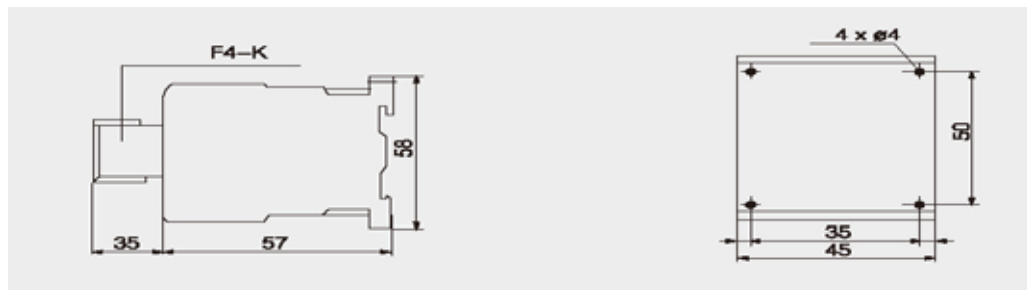
CJX2-K09N

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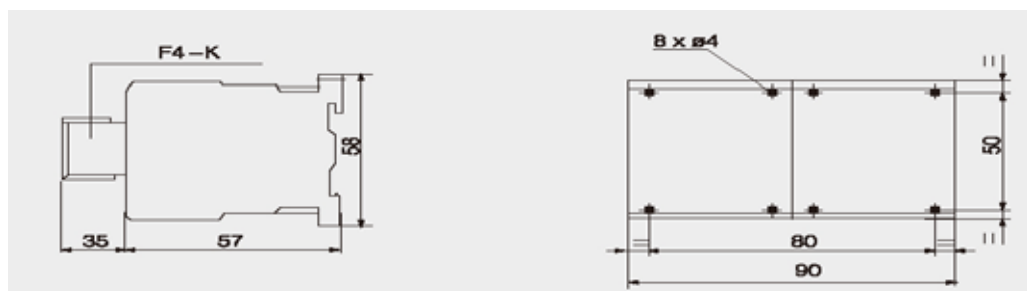
Cat. No.			CJX2-K06	CJX2-K09	CJX2-K12	
Rated operational current	380V	AC-3	6	9	12	
		AC-4	2.6	3.5	5	
Rated Insulation Voltage (V)			690	690	690	
Rated Heating current (A)			16	16	16	
Rated operational power in AC-3			220V	1.5	2.2	
			380V	2.2	4	
			660V	3	5.5	
Operational frequency	Electric life	AC-3	1200	1200	1200	
		AC-4	300	300	300	
	Mechanical life	3600	3600	3600		
Electric life (*10 ⁴)			AC-3	50	50	
			AC-4	10	10	10
Mechanical life (*10 ⁴)			1000	1000	1000	
Auxiliary contacts			Ref. No.	F4-K20, -K02, -K11, -K31, -K13, -K40, -K04		
			Rated heating current	6A	6A	6A
			Capacity	AC-15 360VA, DC-13 33W		
Compatible fuse			RT16-16			

Dimensions:

CJX2-K06~K12



CJX2-K06N~K12N



Cat. No. CJX2-E

CJX2-E series AC contactor is suitable for use in the circuit up to the rate and frequent starting, controlling the AC motor. The addition of auxiliary contact group to the contactor, combined with the proper thermal relay, can act to protect the circuit bound to overload. It conforms to IEC60947-4-1.



CJX2-E09



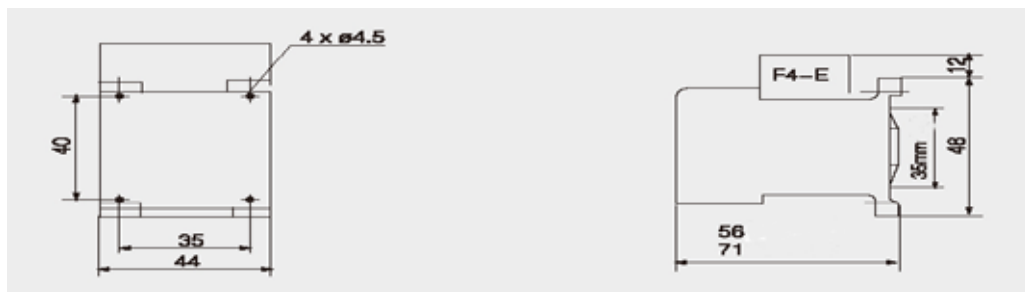
CJX2-E09N

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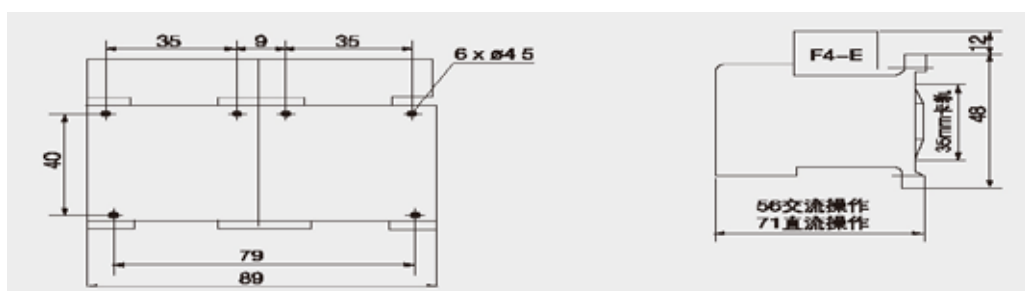
Cat. No.		CJX2-E06	CJX2-E09
Rated operational current	380V	AC-3	6
		AC-4	2.6
Rated Insulation Voltage (V)		690	690
Rated Heating current (A)		16	16
Rated operational power in AC-3	220V	1.5	2.2
	380V	2.2	4
	660V	3	5.5
Operational frequency	Electric life	AC-3	1200
		AC-4	300
	Mechanical life	3600	3600
Electric life (*10 ⁴)	AC-3	50	50
	AC-4	10	10
Mechanical life (*10 ⁴)		1000	1000
Auxiliary contacts	Ref. No.	F4-E20, -E02, -K11, -E11	
	Rated heating current	6A	6A
	Capacity	AC-15 360VA, DC-13 33W	
Compatible fuse		RT16-16	

Dimensions:

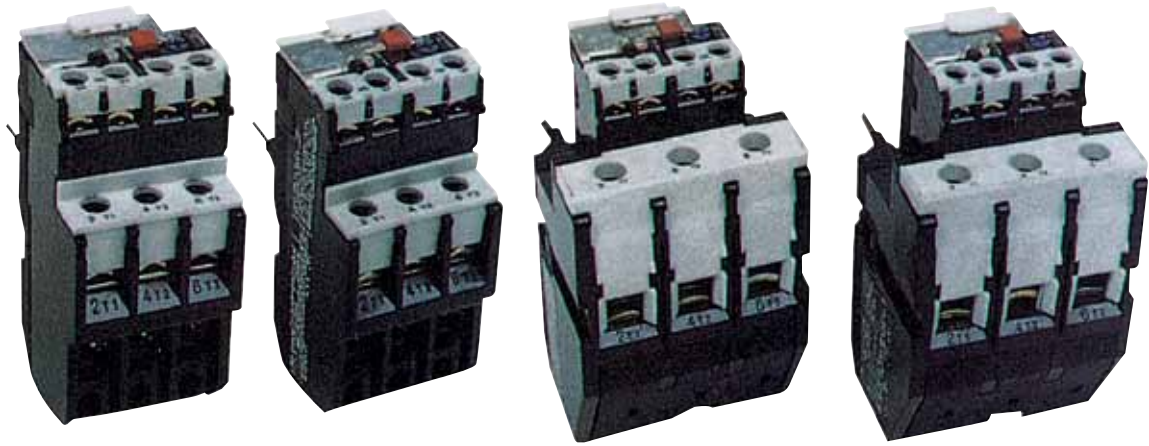
CJX2-E06~K09



CJX2-E06N~E09N



Thermal overload relays JRS1



JRS1-D13

JRS1-D33









Type	Setting current range (A)	Plug in contactor
JRS1-D1301	0.1~0.16	CJX2-D09~D32
JRS1-D1302	0.16~0.25	CJX2-D09~D32
JRS1-D1303	0.25~0.40	CJX2-D09~D32
JRS1-D1304	0.40~0.63	CJX2-D09~D32
JRS1-D1305	0.63~1	CJX2-D09~D32
JRS1-D1306	1~1.6	CJX2-D09~D32
JRS1-D13X6	1.25~2	CJX2-D09~D32
JRS1-D1307	1.6~2.5	CJX2-D09~D32
JRS1-D1308	2.5~4	CJX2-D09~D32
JRS1-D1310	4~6	CJX2-D09~D32
JRS1-D1312	5.5~8	CJX2-D09~D32
JRS1-D1314	7~10	CJX2-D09~D32
JRS1-D1316	9~13	CJX2-D12~D32
JRS1-D1321	12~18	CJX2-D18~D32
JRS1-D2353	23~32	CJX2-D25~D32
JRS1-D2355	28~36	CJX2-D32
JRS1-D1322	17~25	CJX2-D25~D32
JRS1-D3322	17~25	CJX2-D40~D95
JRS1-D3353	23~32	CJX2-D40~D95
JRS1-D3355	30~40	CJX2-D40~D95
JRS1-D3357	37~50	CJX2-D50~D95
JRS1-D3359	48~65	CJX2-D50~D95
JRS1-D3361	55~70	CJX2-D65~D95
JRS1-D3363	63~80	CJX2-D80~D95
JRS1-D3365	80~93	CJX2-D95

Type	Setting current range (A)	Plug in contactor
JRS1-D09301	0.1~0.16	CJX2-D09~25
JRS1-D09302	0.16~0.25	CJX2-D09~25
JRS1-D09303	0.25~0.40	CJX2-D09~25
JRS1-D09304	0.40~0.63	CJX2-D09~25
JRS1-D09305	0.63~1	CJX2-D09~25
JRS1-D09306	1~1.6	CJX2-D09~25
JRS1-D09307	1.6~2.5	CJX2-D09~25
JRS1-D09308	2.5~4	CJX2-D09~25
JRS1-D09310	4~6	CJX2-D09~25
JRS1-D09312	5.5~8	CJX2-D09~25
JRS1-D09314	7~10	CJX2-D09~25
JRS1-D09316	10~13	CJX2-D09~25
JRS1-D16321	13~18	CJX2-D09~25
JRS1-D25322	19~25	CJX2-D09~25
JRS1-D40353	23~32	CJX2-D40 50 60
JRS1-D40355	30~40	CJX2-D40 50 60
JRS1-D63357	38~50	CJX2-D40 50 60
JRS1-D63359	48~57	CJX2-D40 50 60
JRS1-D63361	57~66	CJX2-D40 50 60
JRS1-D63363	63~80	CJX2-D80

Thermal overload relays JRS2

	Type	Setting current range A	Suitable Contactors		Type	Setting current range A	Suitable Contactors
 <p>JRS2-12.5/Z</p>	0A	0.1-0.16	3TB40	 <p>JRS2-63/Z</p>	0A	0.1-0.16	3TF40
	0C	0.16-0.25	3TF40		0C	0.16-0.25	3TB40
	0E	0.25-0.4	3TB41		0E	0.25-0.4	3TF41
	0G	0.4-0.63	3TF41		0G	0.4-0.63	3TB41
	0J	0.63-1	3TF30		0J	0.63-1	3TF42
	0K	0.8-1.25	3TF31		0K	0.8-1.25	3TB42
	1A	1-1.6			0A	1-1.6	3TF43
	1B	1.25-2	CJX1-F9		1B	1.25-2	3TB43
	1C	1.6-2.5	CJX1-F12		1C	1.6-2.5	3TF44
	1D	2-3.2			1D	2-3.2	3TB44
	1E	2.5-4			1E	2.5-4	3TF45
	1F	3.2-5			1F	3.2-5	3TF46
	1G	4-6.3			1G	4-6.3	3TF47
	1H	5-8			1H	5-8	3TF48
	1J	6.3-10			1J	6.3-10	CJX1-F9
	1K	8-12.5			1K	8-12.5	CJX1-F12
	2S	10-14.5			2A	10-16	CJX1-F16
 <p>JRS2-25/Z</p>	0A	0.1-0.16	3TB42	 <p>JRS2-80/Z</p>	2B	12.5-20	CJX1-F22
	0C	0.16-0.25	3TF42		2C	16-25	CJX1-F32
	0E	0.25-0.4	3TB43		2D	20-32	CJX1-F38
	0G	0.4-0.63	3TF43		2E	25-40	CJX1-F45
	0J	0.63-1	3TF32		2M	32-45	CJX1-F63
	0K	0.8-1.25	3TF33		2T	40-57	CJX1-F75
	1A	1-1.6			2P	50-63	
	1B	1.25-2	CJX1-F16		1G	4-6.3	3TF46
	1C	1.6-2.5	CJX1-F22		8A	11-17	3TF47
	1D	2-3.2			2B	12.5-20	3TF48
	1E	2.5-4			2C	16-25	CJX1-F45
	1F	3.2-5			2D	20-32	CJX1-F63
	1G	4-6.3			2E	25-40	CJX1-F75
	1H	5-8			2F	32-50	
	1J	6.3-10			2T	40-57	
	1K	8-12.5			2P	50-63	
	2A	10-16			2V	57-70	
2B	12.5-20		2U	63-80			
2C	16-25		8W	70-88			
 <p>JRS2-32/Z</p>	1G	4-6.3		 <p>JRS2-180/F</p>	2H	55-80	3TF50
	1J	6.3-10	3TF44		2W	63-90	3TF51
	2A	10-16			2X	80-110	3TF52
	2B	12.5-20	CJX1-F32		3H	90-120	CJX1-F110
	2C	16-25			3J	110-135	CJX1-F140
	2D	20-32			3K	120-150	CJX1-F170
	2Q	25-36			3L	135-160	
					3M	150-180	
 <p>JRS2-45/Z</p>	0A	0.1-0.16	3TF44	 <p>JRS2-400</p>	2K	80-125	3TF54
	0C	0.16-0.25	3TF45		3B	125-200	3TF55
	0E	0.25-0.4	3TF34		3C	160-250	CJX1-F250
	0G	0.4-0.63	3TF35		3D	200-320	CJX1-F300
	0J	0.63-1			3E	250-400	
	0K	0.8-1.25	CJX1-F32		3F	320-500	
	1A	1-1.6	CJX1-F38		3G	400-630	
	1B	1.25-2					
	1C	1.6-2.5					
	1D	2-3.2					
	1E	2.5-4					
	1F	3.2-5					
	1G	4-6.3					
	1H	5-8					
	1J	6.3-10					
	1K	8-12.5					
	2A	10-16					
2B	12.5-20						
2C	16-25						
2D	20-32						
2Q	25-36						
2R	32-40						
8M	36-45						

Thermal overload relays T

	Setting current range A	
 T16	0.11-0.16	1.5-2.1
	0.14-0.21	1.7-2.4
	0.19-0.29	2.1-3
	0.27-0.4	2.7-4
	0.35-0.52	3.4-4.5
	0.42-0.63	4-6
	0.55-0.83	5.2-7.5
	0.7-1.0	6.3-9
	0.9-1.3	7.5-11
	1.1-1.5	9-13
1.3-1.8	12-17.6	
 T25	0.1-0.16	2.8-4
	0.16-0.25	3.5-5
	0.25-0.4	4.5-6.5
	0.4-0.63	6-8.5
	0.63-1	7.5-11
	1-1.4	10-14
	1.3-1.8	13-19
	1.7-2.4	18-25
	2.2-3.1	24-32
	 T45	0.28-0.4
0.35-0.52		2.8-4
0.45-0.63		3.2-5.2
0.55-0.83		4.5-6.3
0.7-1		5.5-8.3
0.86-1.3		7-10
1.1-0.6		8.6-13
1.4-2.1		11-16
1.8-2.5		14-21
18-27		
25-35		
30-45		
 T85	6-10	25-40
	8-14	35-55
	12-20	45-70
	17-29	60-100
 T105	27-42	57-82
	36-52	70-105
	45-63	80-115
 T170	90-130	
	110-160	
	140-200	
 T250	100-160	
	160-250	
	250-400	
 T370	100-160	
	160-250	
	250-400	
	310-500	

Thermal overload relays JRS5

	Setting current range A
 JRS5-12/Z	0.2-0.28
	0.28-0.42
	0.4-0.6
	0.55-0.85
	0.7-1.1
	1-1.6
	1.4-2
	1.7-2.5
	2-3
	2.8-4.4
4-6	
5.2-8	
7-11	
9-13	
 JRS5-20/F	0.2-0.28
	0.28-0.42
	0.4-0.6
	0.55-0.85
	0.7-1.1
	1-1.6
	1.4-2
	1.7-2.5
	2-3
	2.8-4.4
4-6	
5.2-8	
7-11	
9-13	
12-18	
16-22	
18-26	
24-34	
30-40	
 JRS5-60/F	12-18
	16-22
	18-26
	24-34
	30-40
	34-50
	43-65
	54-80
	65-93
	85-105

Magnetic starters QCX2



QCX2-D09~D18



QCX2-D25~D32



QCX2-D40~D95

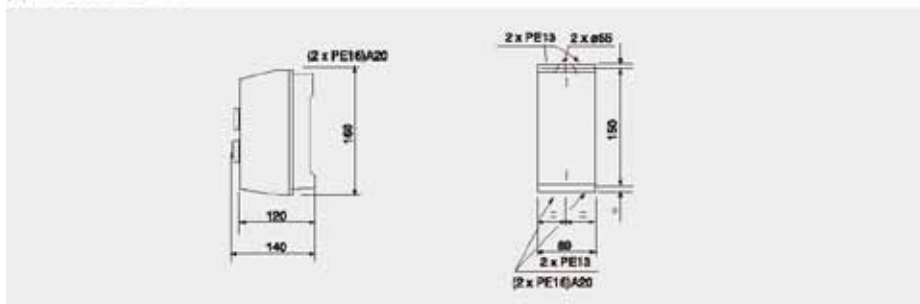
Specification:

1. Rated volage: 690V;
2. Frequency: 50Hz/60Hz;
3. Temperature: -5°C~+40°C;
4. Protection degree: IP65;

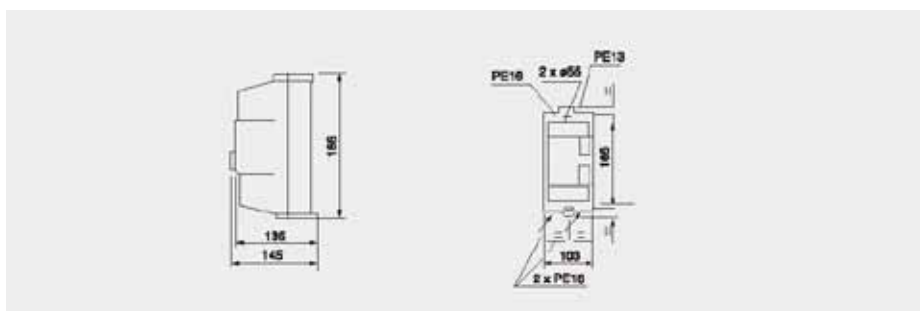
Data:

Cat. No.	Rated Current (A) 380V		Rated heating current (A)	Motor Capacity (kW) AC-3			Av. Capacity VA (20°C)50Hz		Weight (kg)
	AC3	AC4		220V	380V	660V	Contact	Keeping	
QCX2-09	09	3.5	20	2.2	4	5.5	76	9.4	0.9
QCX2-09	12	5	20	3	5.5	7.5	76	9.4	0.9
QCX2-09	18	7.7	32	4	7.5	10	76	9.4	0.92
QCX2-09	25	8.5	40	5.5	11	15	110	11	1.3
QCX2-09	32	12	50	7.5	15	18.5	110	11	1.33
QCX2-09	40	18.5	60	11	18.5	30	230	32	3.65
QCX2-09	50	24	80	15	22	33	230	32	3.65
QCX2-09	65	28	80	18.5	30	37	230	32	3.65
QCX2-09	80	37	110	22	37	45	230	32	3.8
QCX2-09	95	44	110	25	45	55	230	32	3.8

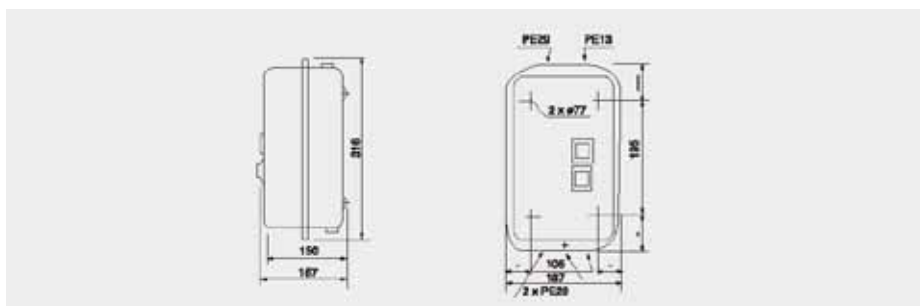
图1 QCX2-09~18



QCX2-D25~D32



QCX2-D40~D95



Magnetic starters QCX5



QCX5-K10PM/K11PM

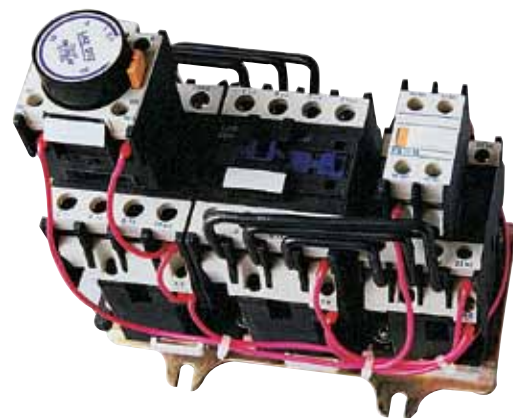
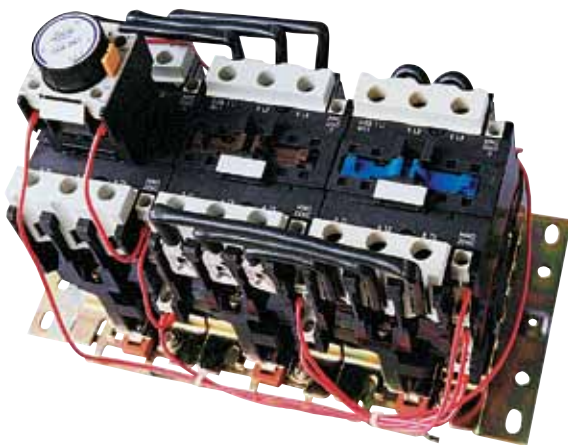


QCX5-K20PM/K21PM



QCX5-K25PM/K35PM

Star-delta starter LC3-D



Soft starters

The traditional method of squirrel-cage asynchronous motor: Y- \square starting and autotransformer starting. But each has its fault. The former will appear high current point during the change-over time and produce destructive dynamic torque. Its mechanical vibration is harmful to the electrical rotor, axial connection, middle gear and load. The latter has the feature of large volume and high maintenance rate. It is also difficult to control electrical torque which is adapted to the load.

Owing to the weakness of these two starting methods, soft starting is widely used by more and more customers. The feature of low start current, energysaving and the protection functions of motor improve the production efficiency. It is an ideal renewal product to substitute the traditional starter.



Operation conditions

- (1) Power: three-phase 380V \pm 15% 50Hz
- (2) Motor: three-phase AC asynchronous motor
- (3) Environmental Temp: -0 \square -40 \square
- (4) Relative humidity: Max 90% (Temp 20 \square)
- (5) Start frequency: less than 15 times per hour
- (6) Specification:

JJR1-S-5.5kw-17kw

JJR1-S-22kw

JJR1-S-30kw

JJR1-S-37kw

JJR1-S-45kw

JJR1-S-55kw

JJR1-S-75kw

JJR1-S-90kw

JJR1-S-115kw

JJR1-S-132kw

JJR1-S-160kw

JJR1-S-200kw

JJR1-S-250kw

JJR1-S-320kw

JJR1-S-400kw

JJR1-S-500kw

