

WJCX Type AC Contactor

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AC Contactor



Applicable scope

WJCX AC Contactor is used in AC 50Hz/ 60Hz circuit with rated Insulation voltage of 690V, rated working voltage of 415V and rated working current from 9A~95A in AC-3 utilization Category. It is used to making or breaking the circuit and for frequent start AC motors from a distance. It can also be used as electro-magnetic starter when matching with thermal relay to protect the circuit against overload.

Conform to I EC/ EN 60947-1, I EC/ EN 60947-4-1, I EC/ EN 60947-5-1.

Operation and installation conditions

Type	Operation and installation conditions
Installation class	III
Pollution degree	3
Compliant standards	IEC/EN 60947-1, IEC/EN 60947-4-1, IEC/EN 60947-5-1
Certification mark	CE
Enclosure protection degree	WJCX-09~32: IP20; WJCX-40~95: IP10;
Ambient temperature	Operation temperature limits: -35°C~+70°C Normal operation temperature range: -5°C~+40°C. The 24-hour average temperature should not exceed +35°C. For use beyond the normal operation temperature range.
Altitude	Not exceeding 2000 m above sea level
Atmospheric conditions	The relative humidity should not exceed 50% at the upper temperature limit of +70°C. A higher relative humidity is allowed at a lower temperature, example 90% at +20°C. Special precautions should be taken against occasional condensation due to humidity variations.
Installation conditions	The angle between the installation surface and the vertical surface should not exceed $\pm 5^\circ$.

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Performance		Technical performance	
Rated insulation voltage U_i (V)		690V	
Rated impulse withstand voltage U_{imp} (kV)		8kV	
Rated making capacity		Making current: 1 $O_x I_e$ (AC-3) or 12x I_e (AC-4)	
Rated breaking capacity		Breaking current: 8x I_e (AC-3) or 10x I_e (AC-4)	
Number of pole		3P,4P	
Electrical life (cycles)	WJCX- 09~18	1.2x10 ⁶	
	WJCX- 25~32	1.2x10 ⁷	
	WJCX- 40~65	1.2x10 ⁶	
	WJCX- 80~95	0.8x10 ⁶	
Mechanical life (cycles)	WJCX- 09~18	1.2x10 ⁷	
	WJCX- 25~32	1x10 ⁷	
	WJCX- 40~65	0.9x10 ⁷	
	WJCX- 80~95	0.65x10 ⁷	
Main contact		3 NO	
Matching thermal overload relay	WJCX- 09~32	WUR2-36	
	WJCX- 40~95	WUR2-93	
Built-in auxiliary contact	3P	1 NO + 1 NC	
	4P	-	
Coil control power supply	WJCX- 09~18	24,110, 220, 230, 240, 415	
	WJCX- 25~95	24, 36,48, 110, 127, 220, 230, 240, 380, 415	
Control voltage	Pull-in	(70%~120%) U_s	
	Release	(20%~65%) U_s	
Coil average power (VA)	Start	WJCX- 09~18	4~60
		WJCX- 25~32	50~70
		WJCX- 40~65	160~120
		WJCX- 80~95	190~250
	Hold	WJCX- 09~18	9.5
		WJCX- 25~32	8~11.4
		WJCX- 40~65	13~24
		WJCX- 80~95	17~30
Heat Dissipation (W)	AC	WJCX- 09~32	1~3
		WJCX- 40~65	4~8
		WJCX- 80~95	6~10
	DC	-	

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Contactor model

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Contactor model			Conventional thermal current I _{th} (A)	Rated operation current I _e (A)		Rated control power AC-3(kW)
				AC-3	AC-4	
WJCX-09-3P	W605973	220V/230V/240V	20	9	9	2.2
		380V/400V/415V	20	9	9	4
		660V/690V	20	6.6	6.6	5.5
WJCX-12-3P	W605974	220V/230V/240V	25	12	12	3
		380V/400V/415V	25	12	12	5.5
		660V/690V	25	8.9	8.9	7.5
WJCX-18-3P	W605975	220V/230V/240V	32	18	18	4
		380V/400V/415V	32	18	18	7.5
		660V/690V	32	12	12	10
WJCX-25-3P	W605976	220V/230V/240V	40	25	25	5.5
		380V/400V/415V	40	25	25	11
		660V/690V	40	18	18	15
WJCX-32-3P	W605977	220V/230V/240V	50	32	32	7.5
		380V/400V/415V	50	32	32	15
		660V/690V	50	22	22	18.5
WJCX-40-3P	W605978	220V/230V/240V	60	40	40	11
		380V/400V/415V	60	40	40	18.5
		660V/690V	60	34	34	30
WJCX-50-3P	W605979	220V/230V/240V	80	50	50	15
		380V/400V/415V	80	50	50	22
		660V/690V	80	39	39	37
WJCX-65-3P	W605980	220V/230V/240V	80	65	65	18.5
		380V/400V/415V	80	65	65	30
		660V/690V	80	42	42	37
WJCX-80-3P	W605981	220V/230V/240V	100	80	80	22
		380V/400V/415V	100	80	80	37
		660V/690V	100	49	49	45
WJCX-95-3P	W605982	220V/230V/240V	100	100	100	25
		380V/400V/415V	100	100	100	45
		660V/690V	100	49	49	45

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Contactor model			Conventional thermal current I _{th} (A)	Rated operation current I _e (A)		Rated control power AC-3(kW)
				AC-3	AC-4	
WJCX-09-4P	W607615	220V/230V/240V	20	9	9	2.2
		380V/400V/415V	20	9	9	4
		660V/690V	20	6.6	6.6	5.5
WJCX-12-4P	W607616	220V/230V/240V	25	12	12	3
		380V/400V/415V	25	12	12	5.5
		660V/690V	25	8.9	8.9	7.5
WJCX-18-4P	W607617	220V/230V/240V	32	18	18	4
		380V/400V/415V	32	18	18	7.5
		660V/690V	32	12	12	10
WJCX-25-4P	W607618	220V/230V/240V	40	25	25	5.5
		380V/400V/415V	40	25	25	11
		660V/690V	40	18	18	15
WJCX-32-4P	W607619	220V/230V/240V	50	32	32	7.5
		380V/400V/415V	50	32	32	15
		660V/690V	50	22	22	18.5
WJCX-40-4P	W607620	220V/230V/240V	60	40	40	11
		380V/400V/415V	60	40	40	18.5
		660V/690V	60	34	34	30
WJCX-50-4P	W607621	220V/230V/240V	80	50	50	15
		380V/400V/415V	80	50	50	22
		660V/690V	80	39	39	37
WJCX-65-4P	W607622	220V/230V/240V	80	65	65	18.5
		380V/400V/415V	80	65	65	30
		660V/690V	80	42	42	37
WJCX-80-4P	W607623	220V/230V/240V	100	80	80	22
		380V/400V/415V	100	80	80	37
		660V/690V	100	49	49	45
WJCX-95-4P	W607624	220V/230V/240V	100	100	100	25
		380V/400V/415V	100	100	100	45
		660V/690V	100	49	49	45

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Contactor wiring				WJCX-09~12	WJCX-18~25	WJCX-32~40	WJCX-50~65	WJCX-80~95
Main Circuit connection	Cable connection (mm ²)	Prefabricated flexible wire W	1	1~4	1.5~6	1.5~10	6~25	10~35
			2	1~2.5	1.5~4	1.5~6	4~10	6~16
		Hard wire	1	1~4	1.5~6	1.5~6	6~25	10~35
			2	1~4	1.5~6	1.5~6	4~10	6~16
	Size of fastening screw			M3.5	M3.5	M4	M8	M8
	Tightening torque (N.m)			0.8	0.8	1.2	6	6
Cable circuit connection		Prefabricated flexible wire	1	1~4				
			2	1~2.5				
		Hard wire	1	1~4				
			2	1~4				
	Size of fastening screw			M3.5				
	Tightening torque (N.m)			0.8				

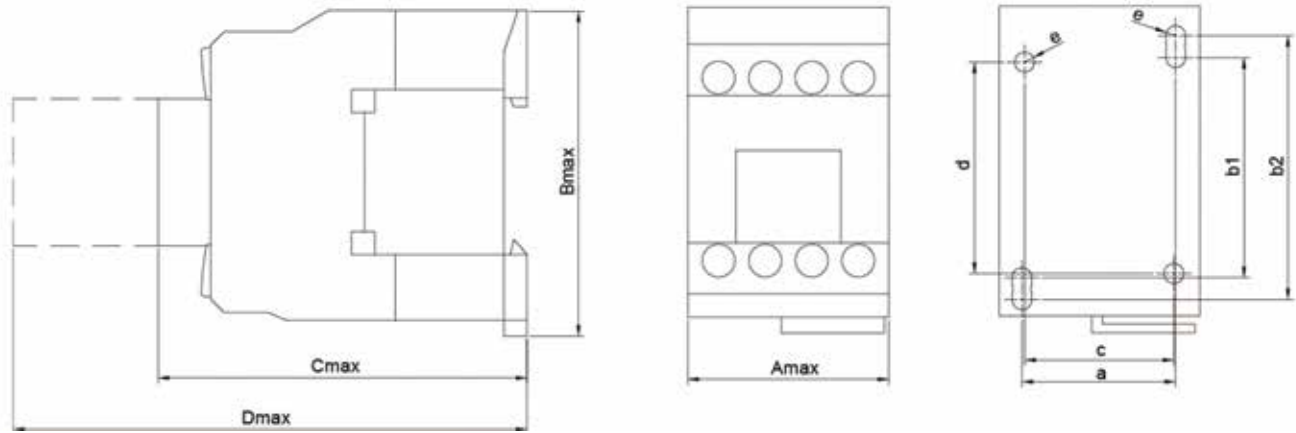
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Dimensions (mm)

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WJCX-90-32-3 & 4 Pole



Contactor Model	A max	B Max	C Max	D Max	a	b1/b2	c	d	e
WJCX-90~18	45	75	85	117	35	50/60	34	48	Ø5
WJCX-25~32	45	85	92	124	35	50/60	34	48	Ø5

WJCX-40~95- 3 & 4 Pole



Contactor Model	A max	B Max	C Max	D Max	a	b	c
WJCX-40~65	77	127	117	151	40	100/110	Ø 6.5
WJCX-80~95	86	127	125	160	40	100/110	Ø 6.5