

RKC2-M

Mini Contactor 6~12A

Standard_ IEC60947-1
IEC60947-4-1



Product Overview

RKC2-M series AC contactor with novel appearance and compact structure is suitable for using starting & controlling the AC motor frequently, switching on and off the circuit at a long distance. It is used in combination with thermal relay to compose a magnetic motor starter.
Standard: IEC 60947-1, IEC 60947-4-1.

Type Designation

RK	C	2	-	09	10	M	/	Z
↓	↓	↓		↓	↓	↓		↓
①	②	③		④	⑤	⑥		⑦
Code	Meaning			Code	Meaning			
①	Company code			⑤	Number of contacts (reversible contactors represent the types and quantities of contacts for a single product) 10: 3NO main contacts+1NO auxiliary contact 01: 3NO main contacts+1NC auxiliary contact 04: 4NO main contacts 08: 2NO and 2NC main contacts			
②	Contactor							
③	Design sequence NO.							
④	Rated current (380V/400V, AC3): 6A, 9A, 12A							
				⑥	M represents mini contactor			
				⑦	Z represents DC operation, N represents reversible AC contactor			

Operating and Installation Conditions

Type	Operating and Installation Conditions
Installation category	III
Pollution level	3
Certification	CE, CB, TUV
Protection degree	IP20
Ambient temperature	limit of temperature: -35°C~+70°C, normal temperature: -5°C~+40°C, The average no more than +35°C within 24 hours. If not in normal operating temperature range, please refer to "Instructions for abnormal environment"
Altitude	≤2000m
Ambient temperature	The maximum temperature of 70 degrees, the air relative humidity not exceed 50%, under lower temperature can allow for higher relative humidity. If the temperature is 20°C, the air relative humidity could up to 90%, Special measures should be taken for occasional condensation due to humidity changes.
Installation position	Inclination between installation surface and vertical surface should not exceed ±5°
Shock vibration	Products should be installed and used without significant shake, shock and vibration place.

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Technical Data

Type		RKC2-06M	RKC2-09M	RKC2-12M
Main circuit characteristic				
Poles		3P/4P		
Main contact		3NO		
Rated insulation voltage(Ui)(V)		690V		
Rated operating voltage(Ue)(V)		380/400V; 660/690V		
Rated thermal current(Ith), AC-1		20		
Rated operation current(Ie)(A)	AC-3, 380/400V	6	9	12
	AC-3, 660/690V	3.8	4.9	4.9
	AC-4, 380/400V	6	9	9
	AC-4, 660/690V	3.8	4.9	4.9
Rated operational power(Pe)(A)	AC-3, 380/400V	2.2	4	5.5
	AC-3, 660/690V	3	4	4
Mechanical life(×10 ⁴ times)		1200		
Electrical life (×10 ⁴ times)	AC-3	120		
	AC-4	See electrical life curve		
Frequency of operation (time/h)	AC-3	1200		
	AC-4	300		
Control circuit characteristics				
Rated control voltage (Us)	50Hz	24V,36V,48V,110V,127V,220V,380V,415V		
	50/60Hz	24V,36V,48V,110V,127V,220V,380V,415V		
	DC	12V,24V,36V,48V,110V,127V,220V		
Allowed control circuit voltage	Operation	Installation inclination angle ±22.5°: (85%~110%)Us; Installation inclination angle±5°: 70%~120%		
	Release(AC)	Installation inclination angle ±22.5°: (20%~75%)Us; Installation inclination angle±5°: 20%~60%		
	Release(DC)	Installation inclination angle ±22.5°: (10%~75%)Us; Installation inclination angle±5°: 10%~60%		
Power consumption of coil	Actuation(VA)	20-40		
	Keep(VA)	9.5		
	Consumption(W)	1-3		
Connecting capability of main circuit terminal				
Flexible wire No terminal	1 wire(mm²)	1~4		
	2 wire(mm²)	1~4		
Flexible wire With terminals	1 wire(mm²)	1~4		
	2 wire(mm²)	1~2.5		
Hard wire No terminal	1 wire(mm²)	1~4		
	2 wire(mm²)	1~4		
Fastening torque (N.m)		1.2		
Auxiliary contacts				
Bulit-in auxiliary contact		1NO/1NC		
Rated thermal current (Ith)		10A		
Rated operating voltage (Ue)	AC	380/400V		
	DC	220V		
Rated control capacity	AC-15	Ue/Ie: AC380V/400V/1.5A; Ith: 10A		
	DC-13	Ue/Ie: DC220V/0.3A		

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Selection Table

Motor power kW		Maximum operation current A	Number of contacts contained in the contactor body		Contactor model
380/400V	660/690V	AC-3 380/400V	NO	NC	
2.2	3	6	1	0	RKC2-0610M
2.2	3	6	0	1	RKC2-0601M
2.2	3	6	0	0	RKC2-0604M
2.2	3	6	0	0	RKC2-0608M
4	4	9	1	0	RKC2-0910M
4	4	9	0	1	RKC2-0901M
4	4	9	0	0	RKC2-0904M
4	4	9	0	0	RKC2-0908M
5.5	4	12	1	0	RKC2-1210M
5.5	4	12	0	1	RKC2-1201M
5.5	4	12	0	0	RKC2-1204M
5.5	4	12	0	0	RKC2-1208M

Coil Voltage Specification Table

AC(V) 50Hz	24	36	48	110	127	220	380	415
AC(V) 60Hz	24	36	48	110	127	220	380	415
AC(V) 50/60Hz	24	36	48	110	127	220	380	415
DC(V)	12	24	36	48	110	127	220	-

Instructions For Use of Correction Factors In High Altitude Areas

Altitude (m)	2000	3000	4000
Rated impulse withstand voltage correction factor	1	0.88	0.78
Rated operation current correction factor	1	0.92	0.90

Instructions For Use Under Abnormal Ambient Temperature

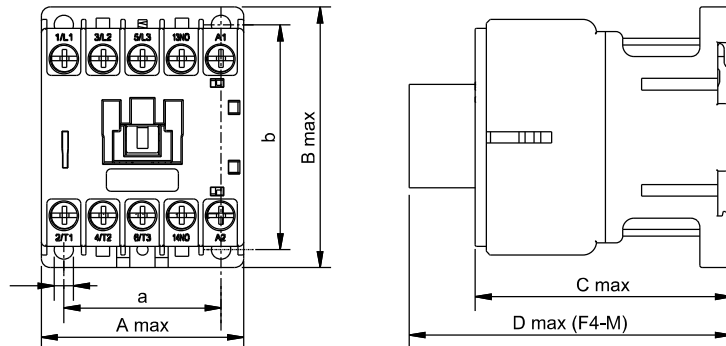
Ambient temperature (°C)	55	60	65	70
Correction factor	1	0.93	0.875	0.75

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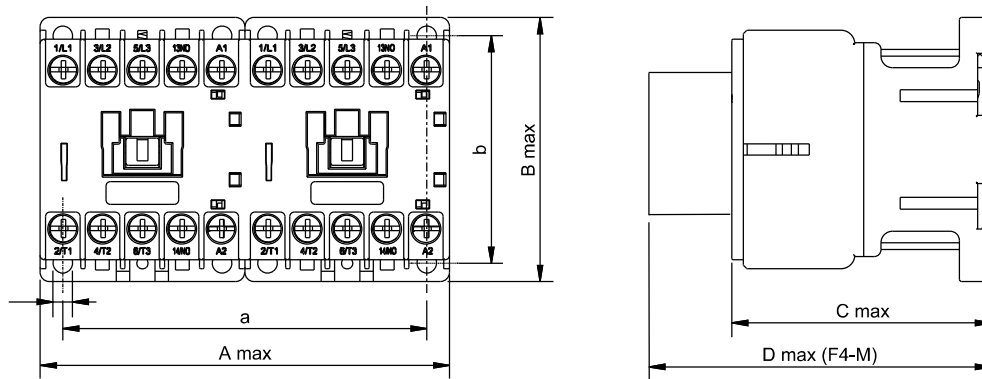
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Dimension(mm)



Model	A Max	B Max	C Max	D Max	a	b	Ø
RKC2-06M~12M	45.5	59	58	94	35±0.35	50±0.48	4.2
RKC2-06M/Z~12M/Z	45.5	59	70	106	35±0.35	50±0.48	4.2



Model	A Max	B Max	C Max	D Max	a	b	Ø
RKC2-06M/N~12M/N	91	59	58	94	80±0.35	50±0.48	4.2
RKC2-06M/Z/N~12M/Z/N	91	59	70	106	80±0.35	50±0.48	4.2