Usage and its scope of application



RDC6 Series AC Contactor is suitable for the circuit of AC50/60Hz, rated operating voltage up to 660V, rated operating current up to 95A, for the use of remotely connecting and breaking the circuit, and can be combined with RDR6 series thermal relay into electromagnetic starter to protect the circuit's over-load that may be produced by operation. Contactor can also be attached with building block type auxiliary contact group, air delay contact, mechanical interlock mechanism, etc. accessories, to be composed into delay contactor, directional contactor, star delta starter.
This product confirms to: GB14048.4, IEC60947-4-1 etc. standards.

Model and its implication



RD C 6 -□□ □□

- 10 indicates: contactor that is 32A and below, its contact is 3P+NO; 01 indicates: contactor that is 32A and below, its contact is 3P+NC; 11 indicates: contactor that is 40A and above, its contact is 3P+NO+NC; 04 indicates: contactor that is 25A and below, its main contacts are 4NO; 08 indicates: contactor that is 25A and below, its main contacts are 2P+2R
  P is the main normal open contact, and R is the main normal close contact (NO-normal open auxiliary contact, NC- normal close auxiliary contact)
- Rated operating current
- Design serial No.
- AC Contactor
- Enterprise code

Normal operating condition and installation condition

3.1 Ambient temperature: -5C~+40C; Average value in 24h does not exceed +35C
3.2 Altitude height of Installation places does not exceed 2000m.
3.3 Condition of atmosphere
When it is the highest temperature +40C, the relative humidity does not exceed 50%, and it allows a certain high relative humidity when it is at relatively low temperature. For example, it reaches 90% when 20C, and it should take special measurements when there occurred condensation due to the temperature variation.
3.4 Pollution grade: 3
3.5 Installation condition: Installing at the places that without obvious impact and vibration.
3.6 Installation position: Gradient between the installation side and the vertical side does not exceed ±5°.
3.7 Installation category: III grade

Main technique parameter

4.1 Main technique parameter of contactor to see table 1
4.2 Main technique parameter for the coil of contactor to see table 1
4.3 Technique parameter for the F4 (LA1-D) series auxiliary contacts group and LA2-D, LA3-D series air delay contact to see table 2 and table 4

Model			RDC6-09	RDC6-12	RDC6-18	RDC6-25	RDC6-32	RDC6-40	RDC6-50	RDC6-65	RDC6-80	RDC6-95
Rated insulation voltage V			690									
Setting thermal current (≤40℃) A			20	20	32	40	50	60	80	80	110	110
Main Contacts	Rated operating current A when 380V	AC-3	9	12	18	25	32	40	50	65	80	95
		AC-4	4	5	7	10	13	16	20	25	32	45
	Capacity of control single-phase motor kW	110V	0.4	0.5	0.75	1.1	1.5	1.5	2.2	3.7	-	-
		220V	0.75	1.1	1.5	2.2	3	3.7	5.5	-	-	-
	Capacity of control three-phase squirrel cage type motor kW	220V	2.2	3	4	5.5	7.5	11	15	18.5	22	25
		380V	4	5.5	7.5	11	15	18.5	22	30	37	45
		440V	4	5.5	9	11	15	22	30	37	45	45
		660V	5.5	7.5	7.5	15	18.5	30	33	37	45	45
	AC-1(≤40℃) A		20	20	32	40	50	60	80	80	110	110
	Max. current when connecting A		250	250	300	450	550	800	900	1000	1100	1200
	Max. current when breaking A	440V	250	250	300	450	550	800	900	1000	1100	1200
		500V	175	175	250	400	480	800	900	1000	1100	1200
		660C	85	85	120	180	200	400	500	630	640	700
	Operation frequency	Electrical life AC-4 times/h	300									
		Electrical life AC-3 times/h	1200				600					
		Mechanical life times/h	3600									
	Electrical life	AC-4 ten thousand times	20	20~15	20~7	15~7	15~7	10~7	7	7~6	7~5	7~5
		AC-3 ten thousand times	100				80				60	
	Mechanical life ten thousand times/h		1000				8000				1000	
Wiring Terminal	Pcs		1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2
	Flexible wire with cold-press terminal mm^2		2.5	2.5	2.5	4	4	6	10 6	16 6	50 25	50 25
	Flexible wire without cold-press terminal mm^2		4	4	4	6	10 6	10 6	16 10	25 16	50 35	50 35
	Single hard wire mm^2		4	4	4	6	6	10	10	25	50	50
			0.32	0.32	0.32	0.35	0.49	0.55	1.07	1.07	1.44	1.44

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Technique parameter of F4 (LA1-D) series auxiliary contact group

Table 2

Model	Combined couple of contact	Rated insulation voltage V	Setting thermal current A	Electrical life (million times)	Mechanical life (million times)	Highest operation frequency times/s	The connectable min. load	The conductive wire connected on the terminal
F4-11	NO+NC	690	10	0.5~5	10	3600	6V×10mA	1~2 pcs flexible wire or hard wire, its cross section is 1.5mm²~2.5mm²
F4-20	2NO							
F4-02	2NC							
F4-22	2NO+2NC							
F4-40	4NO							
F4-04	4NC							
F4-31	3NO+1NC							
F4-13	1NO+3NC							

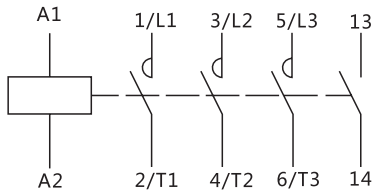
Technique parameter of LA2-D, LA3-D series Air delay

Table 3

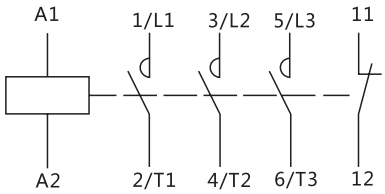
Model	Rated insulation voltage V	Setting thermal current A	Chara. of delay	Scope of delay S	Repetitive error of delay %	Stability error of delay %	Temperature error C	Combined couple of delay contacts	Electrical life times	Mechanical life times	Highest operation frequency times/s	Connectable min. load	The conductive wire connected on the terminal
LA2-D20	690	10	Delay when electrified	0.1~3	±5	±30℃	±25	NO+NC	0.5~5×10⁶	25×10⁶	3	6V× 10mA	1~2 pcs flexible wire or hard wire, its cross section is 1.5mm²~2.5 mm²
LA2-D22				0.1~30									
LA2-D24				10~180									
LA3-D20			Delay when interruption of power supply	0.1~3									
LA3-D22				0.1~30									
LA3-D24				10~180									

Stability error of delay: delay average value/setting value error when at beginning after 2.5 *106 times action

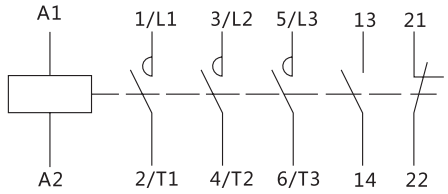
Wiring map



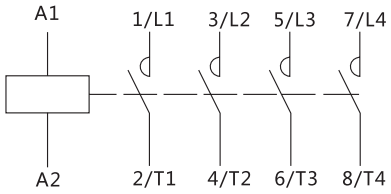
Map 1 Wiring for RDC6-0910~3210 type AC Contactor



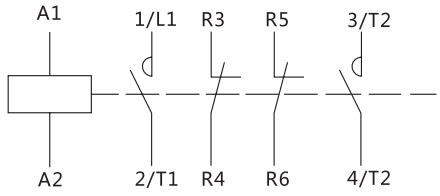
Map 2 Wiring for RDC6-0901~3201 type AC Contactor



Map 3 Wiring for RDC6-4011~9511 type AC Contactor

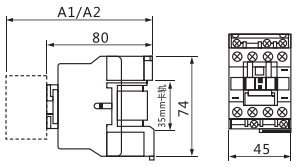


Map 4 Wiring for RDC6-0904~3204 type AC Contactor

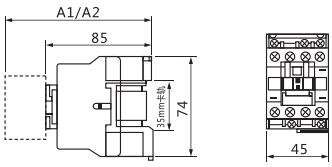


Map 5 Wiring for RDC6-0908~3208 type AC Contactor

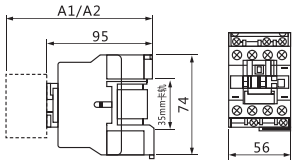
External and installation dimension



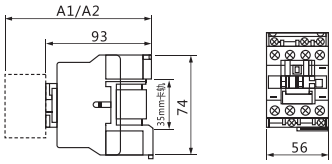
Map 6 External dimension for RDC6-09, 12



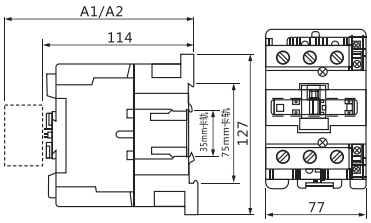
Map 7 External dimension for RDC6-18



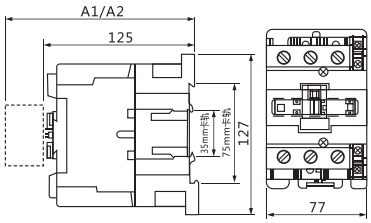
Map 8 External dimension for RDC6-32



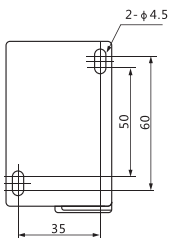
Map 9 External dimension for RDC6-25



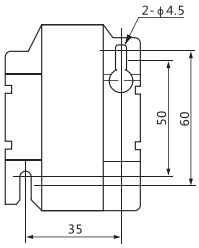
Map 10 External dimension for RDC6-40, 50, 65



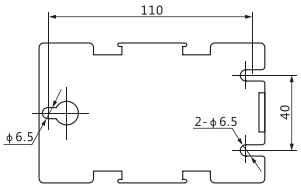
Map 11 External dimension for RDC6-80, 95



Map 12 Installation dimension for RDC6-09, 12, 18



Map 13 Installation dimension for RDC6-25, 32



Map 14 Installation dimension for RDC6-40~95

Ordering Notice

It required to be noted: product model, rated operating voltage and frequency of coil, and the required quantity, if require standard DIN rail, please note additionally.

For example: RDC6-0910, Coil voltage: 220V, 50Hz, 10 pcs