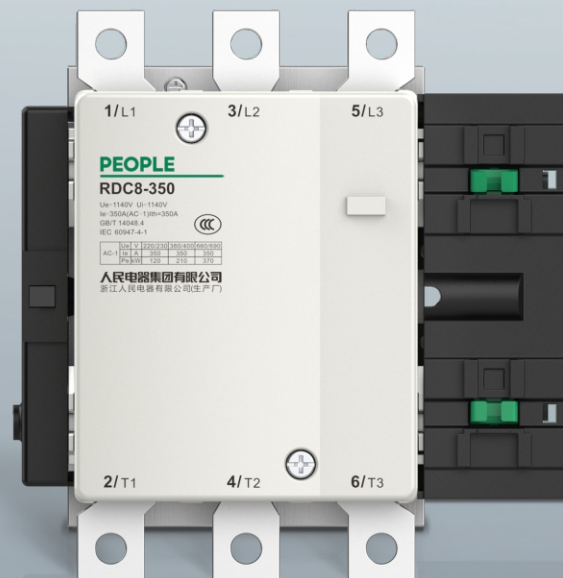
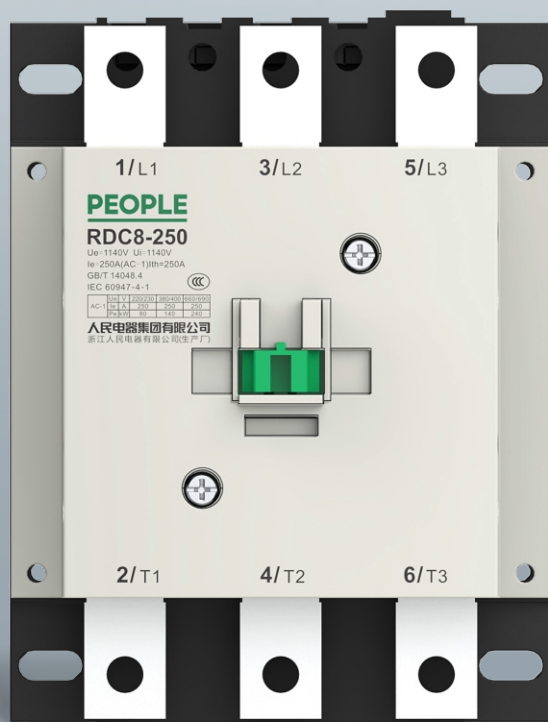




RDC8 Series AC contactors



Perfect fit, no fear of heat

50K main loop temperature rise, extended service life. 60°C high temperature environment test, not afraid of high temperature challenges. New platform, smaller size, save cabinet space.



Lower power dissipation, Assist "dual carbon"

With working status in dicator, real-time check the status change of the surge protector, easy maintenance.



Electronic design, guard security

Threshold voltage, accurate control of suction release voltage. Wide voltage suction, three-speed suction circumference. Built-in anti-surge function to protect equipment from damage.



Skilled in process, contact optimization

The contact bridge is integrated and the conductor resistivity is reduced by 12%. Contact face pressure striping and atomization process increase electrical contact reliability. Optimized silver point material, more durable and safer.

RDC8 series AC contactors

Product overview

RDC8-150~700 AC contactor (hereinafter referred to as contactor), mainly used in AC-1 use category, AC 50Hz (or 60Hz), rated working voltage to1140V, rated working current to 700A under the AC circuit, control resistance, non-inductive, micro inductive apparatus, distribution circuit. Mainly used in charging pile. Products comply with: GB/T14048.4 IEC60947-4-1 standard.

Selection guide

RDC8	700	660V
I	I	I
Product code	Rated current	Control loop voltage
Ac contactor	150,250,350,450, 550,700	AC 110V~660V DC 110V~500V

Accessories

F4	20	LA8	20	LA2	D20
I	I	I	I	I	I
Product code	Auxiliary contact group	Product code	Auxiliary contact group	Product code	Air delay head delay range
Top auxiliary contact group	20:2NO 11:1NO+1NC 02:2NC 40:4NO 31:3NO+1NC 22:2NO+2NC 13:1NO+3NC 04:4NC NO:Moving auxiliary contact NC:Break auxiliary contact	Side auxiliary contact group	20:2NO 40:4NO 31:3NO+1NC 22:2NO+2NC NO: dynamic auxiliary contact NC: break auxiliary contact	LA2: The electric delay air delay head LA3: Air delay head for power failure	D20:Indicates a delay of 0.1-3s D22:Indicates a delay of 0.1-30s D24:Indicates a delay of 10 to180s

Normal working conditions and installation conditions

- ☐Ambient air temperature: -25℃~+60℃, reduce the working current and voltage can be used in the air temperature of -40℃~70℃;
- ☐altitude:There is no capacity reduction below 3000m, and it can be used to a higher altitude after reducing the working current and voltage;
- ☐Atmospheric conditions: at +40℃, the relative humidity of the air does not exceed 50%; At lower temperatures, there can be higher relative humidity, the monthly average minimum temperature of the wettest month does not exceed +25 ℃, the monthly average maximum relative humidity of the month does not exceed 90%, and the condensation on the product due to temperature changes is considered;
- ☐Pollution level: Level 3;
- ☐Installationcategory:ClassIII;
- ☐Installation conditions: The mounting surface and vertical inclination is not greater than ±5°when the coil end control voltage is not less than 85%Us, not greater than ±30°for other installation methods, electrical and mechanical life will not be guaranteed;
- ☐Shock vibration: The product shall be installed and used where there is no significant shaking, shock or vibration.

RDC8 series AC contactors

Main technical parameter

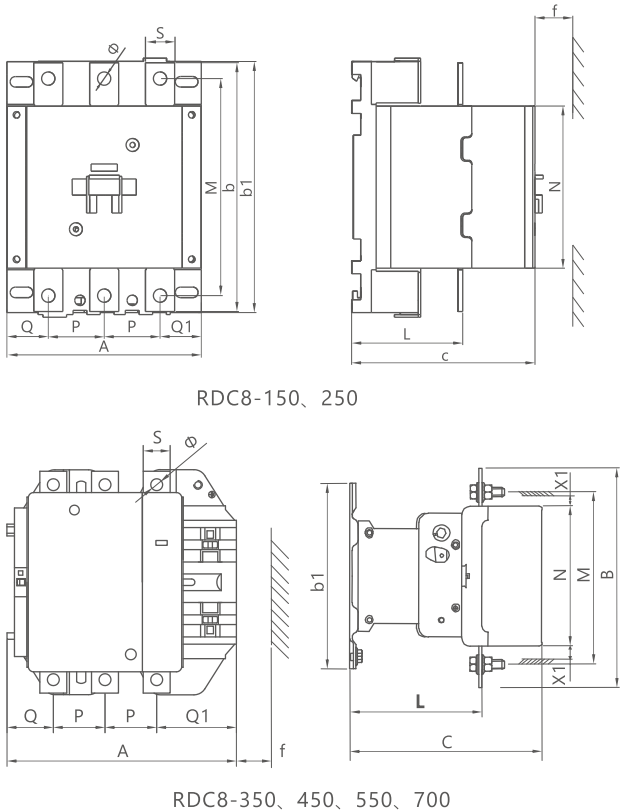
Typenumber		RDC8-150	RDC8-250	RDC8-350	RDC8-450	RDC8-550	RDC8-700
Rated operational current IeAθ≤40°C	AC-1	150	250	350	450	550	700
Rated operating voltage Ue V		1140					
Convention free air heating current It A		150	250	350	450	550	700
Rated insulation voltage Ui V		1140					
Rated impulse withstand voltage Uimp KV		12					
Rated switching capacity (A)		225	375	525	675	825	1050
Rated breaking capacity (A)		Breaking current : 1.5×I(AC-1)					
Short-time withstand current from cold state, prior to 60 minutes no current, ring temperature≤40°C	10 seconds	1500		2100	2700	3300	4200
	30 seconds	1200		1680	2160	2640	3360
	1 minute	750		1050	1350	1650	2100
	3 minute	600		840	1080	1320	1680
	10 minute	500		700	900	1100	1260
Maximum working power Pe kW θ≤40°C AC-1	220/240 V	50	80	120	150	190	240
	380/400 V	85	140	210	260	330	420
	440 V	100	160	230	300	360	470
	500 V	110	175	270	330	410	520
	660/690 V	145	240	370	450	570	685
	1000 V	220	355	540	650	810	1035
	1140 V	250	400	610	720	950	1180
Maximum operating frequency Working cycle/hour		600					
Mechanical life thousands of times		300					
Average impedance per pole Ith and 50Hz (mΩ)		0.35	0.35	0.3	0.25	0.2	0.17
Average power consumption per pole at rated operating current		8W	22W	37W	51W	61W	85W
Terminal assignable conductor	Number of copper bars	1		1	2	2	2
	Bar size mm ²	120		185	150	185	50×5
Impact resistance1/2 sine wave=11ms	Contact or open	6gn		9gn	7gn	6gn	6gn
	Contact or closing	15gn		15gn	15gn	15gn	15gn
Seismic performance 5...150Hz	Contact or open	2gn		2gn	2gn	2gn	1.5gn
	Contact or closing	4gn		4gn	4gn	5gn	5gn
Class of protection	Main circuit	IP00					
	Coil terminal	IP20 prevents direct finger contact					
Operating frequency y times/h		1200		1200	1200	600	600
Control circuit characteristic	AC	110...660V					

RDC8 series AC contactors

Continue form

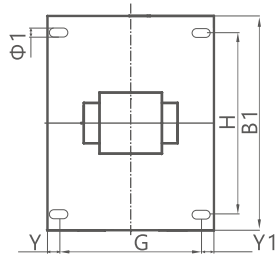
Typenumber		RDC8-150	RDC8-250	RDC8-350	RDC8-450	RDC8-550	RDC8-700
Control circuit characteristic	DC	110...500V					
Operating voltage	Pull-in voltag	0.85-1.1Uc					
	Release voltage(AC)	0.2-0.75Uc					
	Release voltage(DC)	0.1-0.75Uc					
Average power consumption	Start (AC)	450VA		580VA	805VA	700VA	1150VA
	Holding (AC)	22VA		51VA	65VA	12VA	18VA
	Startup (DC)	/		665W	902W	803W	1140W
	Holding (DC)	/		4.9W	5.1W	4.6W	7.5W
Actuation time	actuation	40...75ms					
	AC release	100...170ms					
	DC release	100...170ms					
Mechanical life(under Uc)10 ⁶ times		3		3	3	3	3

Outline and mounting dimension

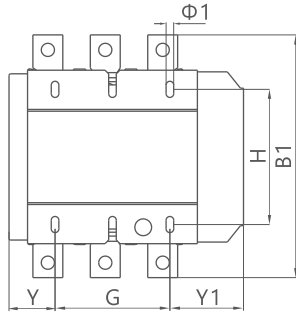


f: The minimum distance required to remove the coil
X1: Arcing distance

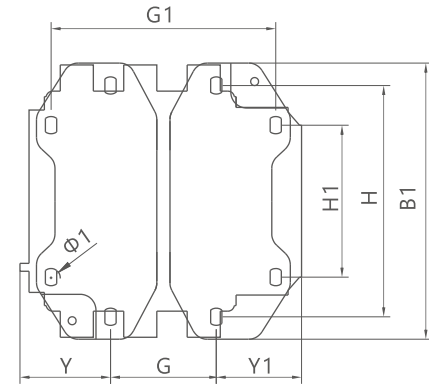
RDC8 series AC contactors



RDC8-150~250



RDC8-350~550



RDC8-700

Type number	RDC8-150	RDC8-250	RDC8-350	RDC8-450	RDC8-550	RDC8-700
A	120		168	168.5	213	213
P	34.5		40	48	48	48
Q	25.5		30.5	21	43	43
Q1	25.5		57.5	51.5	74	74
S	18		20	25	25	25
Φ	M8		M8	M10	M10	M10
f	10		131	130	147	151
B	154		170	197	206	206
b1	160		137	137	145	209
M	134		150	172	181	181
N	100		124	127	158	158
C	121		171	181	219	219
L	68.5		107	113.5	145	143.5
X1						
≤500V	15		15	15	15	15
>>600V	20		20	20	20	20
G	100(95-110)		80	80	96	80(66~102)
H	130		120-106	120-106	120-106	170-180
φ1	6.5		6.5	6.5	6.5	8.5
⏏			M8	M8	M8	M10
Y	10		57	59.5	67	68.5
Y1	10		26.5	29	49.5	64.5
B1	160		170	209	209	209