WE TEST EVERY PCS !

TURNMOONER

YUEQING ZHENGKUN ELECTRIC CO.,LTD.

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TURNMOONER

Industrial Controls

YUEQING ZHENGKUN ELECTRIC CO.,LTD.

About Us

Our factory stick to the principle of "quality first, service first, continuous improvement and innovation to meet the customers" for the management and "zero defect, zero complaints" as the quality objective. To perfect our service, we provide the products with good quality at the reasonable price.

Our factory is in accordance with ISO 9000 International Quality System. All Products Have Certificate of Conformity for Electrical Equipment From Government and Have Won The Safety Approvals of CE ,CCC, CB,SGS...etc international Standard Test.

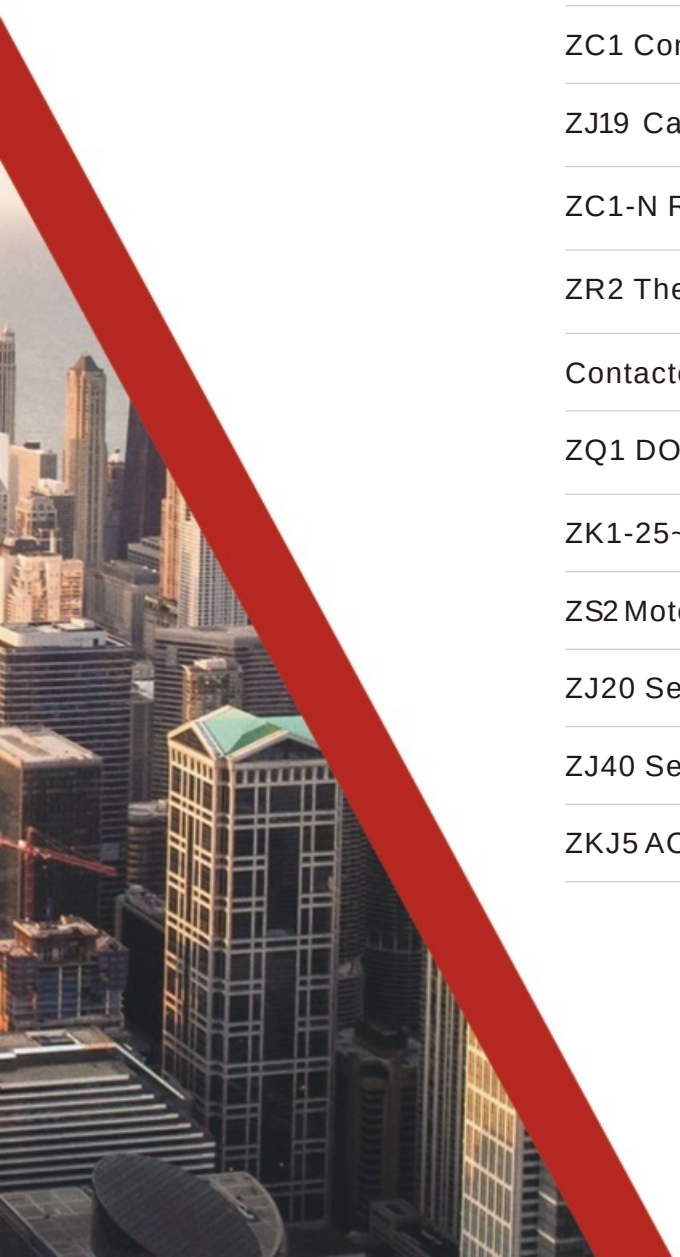
Our factory Continued Adopts International Advanced Technology and Updating Our Products, Have Owned Advanced Equipment of Production, Inspection and Experiment, Powerful Technical Force and The Network System of Sales, Services The World. We Adhere to The Guide of Market and The Principle of Living on Quality, Developing on Credit.

Our factory warmly welcome old&new client to discuss business on the basis of equal and mutual benefit .OEM&ODM is welcome.

TÜV CB CE ISO9001 RoHS

TURNMOONER

CONTENTS



General

- Application: remote making & breaking circuits; protect circuit from over-load when assembling with thermal over-load relay; frequent start-up and control of AC contactor;
- Electric ratings: AC50/60Hz, 690V, up to 95A;
- Utilization category: AC-3, AC-4;
- Altitude: ≤2000m;
- Ambient temperature: -5℃~+40℃;
- Mounting category: III;
- Mounting conditions: inclination between the mounting plane and the vertical plane should not exceed ±5° ;
- Standard: IEC/EN 60947-4-1. IEC/EN 60947-5-1.

- Control Coil Voltage(AC Coil Operation)

Volts(VAC)		24	36	42	48	110	127	220	230	240	380	415	440	480	500	600
Code	50Hz	B5	C5	D5	E5	F5	G5	M5	P5	U5	Q5	N5	R5	-	S5	Y5
	60Hz	B6	-	D6	E6	F6	G6	M6	-	U6	Q6	-	R6	T6	-	-
	50/60Hz	B7	-	D7	E7	F7	-	M7	P7	-	Q7	N7	R7	-	-	-

- Control Coil Voltage(DC Coil Operation)

Volts(VDC)	12	24	36	48	110	220
Code	JD	BD	CD	ED	FD	MD

Type Designation

Z C 1-□□ □□ □

Z: DC operation Blank: AC operation

Number of contacts

10: 3N/O main contacts+1N/O auxiliary contact (9A,12A,18A,25A,32A)

01: 3N/O main contacts+1N/C auxiliary contact (9A,12A,18A,25A,32A)

11: 3N/O main contacts+1N/O and 1N/C auxiliary contact (40A,50A,65A,80A,95A)

04: 4N/O main contacts (9A,12A,25A,40A,50A,65A,80A,95A)

08: 2N/O and 2N/C main contacts (9A,12A,25A,40A,50A,65A,80A,95A)

Basic specification, expressed with the rated operational current (380V/400V, AC3)

Design sequence NO.

Contactor

Company code

Technical Data

Standard	IEC/EN60947-4-1 IEC/EN60947-5-1					
Model No.		ZC1-09	ZC1-12	ZC1-18	ZC1-25	ZC1-32
Rated Conventional Heating Current	Ith (A)	20	20	32	40	50
Rated Voltage Ui(V)	Ui(V)	690	690	690	690	690
Rated Operation Current	AC-3 Ie(A)	9	12	18	25	32
Ue=380/415V	AC-4 Ie(A)	3.5	5	7.7	8.5	12
Power Controlled	220/240V KW	2.2	3	4	5.5	7.5
3ph cage Motor	380/415V KW	4	5.5	7.5	11	15
AC-3	660/690V KW	5.5	7.5	10	15	18.5
Electrial life(x10^3 operations)	AC-3	1000	1000	1000	1000	800
	AC-4	200	200	200	200	200
Mechanical life(x10^6 operations)		10	10	10	10	8
Matched Fuse	Size	RT16-00	RT16-00	RT16-00	RT16-00	RT16-00
	A	20	20	32	40	50
Main circuit	3P or 4P					
Auxiliary circuit Cat.:AC-15,Ue=415V Ie=0.95A Ith=10A	1NO or 1NC					

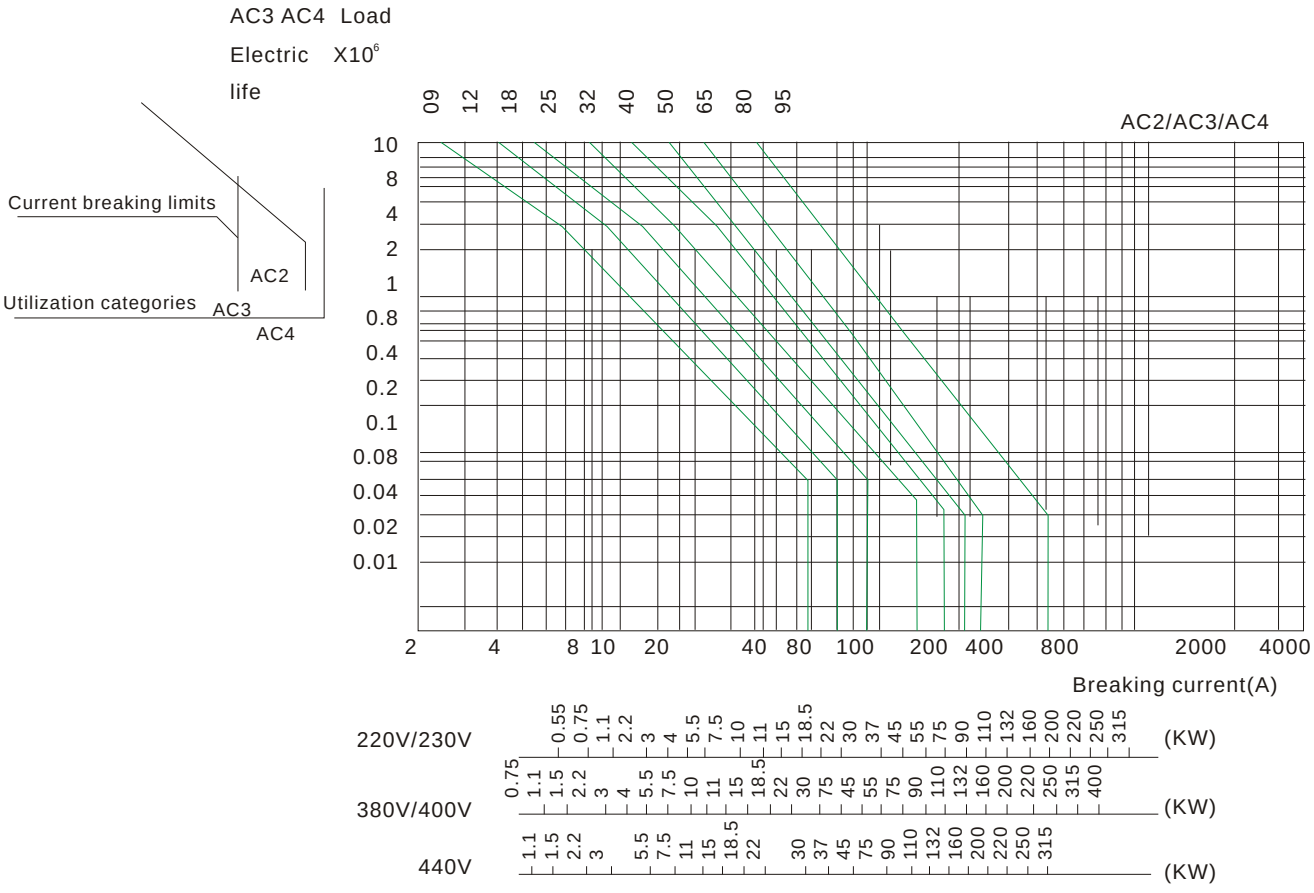
Standard	IEC/EN60947-4-1 IEC/EN60947-5-1					
Model No.		ZC1-40	ZC1-50	ZC1-65	ZC1-80	ZC1-95
Rated Conventional Heating Current	Ith (A)	60	80	80	100	125
Rated Voltage Ui(V)	Ui(V)	690	690	690	690	690
Rated Operation Current	AC-3 Ie(A)	40	50	65	80	95
Ue=380/415V	AC-4 Ie(A)	18.5	24	28	37	44
Power Controlled	220/240V KW	11	15	18.5	22	25
3ph cage Motor	380/415V KW	18.5	22	30	37	45
AC-3	660/690V KW	30	33	37	45	45
Electrial life(x10^3 operations)	AC-3	800	600	600	600	600
	AC-4	150	150	150	100	100
Mechanical life(x10^6 operations)		8	8	8	6	6
Matched Fuse	Size	RT16-00	RT16-00	RT16-00	RT16-00	RT16-00
	A	63	80	80	100	125
Main circuit	3P or 4P					
Auxiliary circuit Cat.:AC-15,Ue=415V Ie=0.95A Ith=10A	1NO+1NC					

Technical Information

Terminal connection

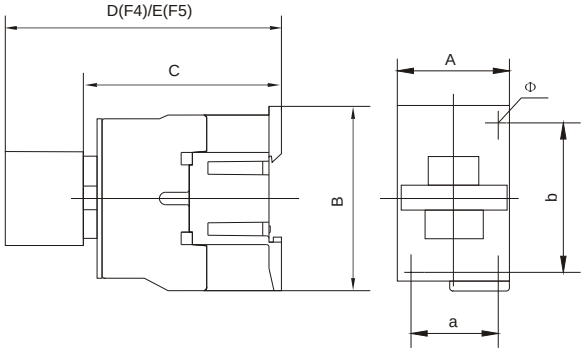
Model	Cabling cross section(Cu)				screw size	Tightening torque(N.m)
	Number of piece	Flexible cable with cold-pressed socket(mm^2)	Flexible cable without cold-pressed socket(mm^2)	Inflexible cable(mm^2)		
ZC1-09	1~2	2.5	4	4	M3.5	0.8
ZC1-12	1~2	2.5	4	4	M3.5	0.8
ZC1-18	1~2	4	6	6	M3.5	0.8
ZC1-25	1	4	10	6	M4	1.2
	2	4	6	6	M4	1.2
ZC1-32	1	4	10	6	M4	1.2
	2	4	6	6	M4	1.2
ZC1-40	1	10	16	10	M4	3.5
	2	10	10	10	M8	3.5
ZC1-50	1	16	25	25	M8	3.5
	2	16	16	-	M8	3.5
ZC1-65	1	16	25	25	M8	3.5
	2	16	16	-	M8	3.5
ZC1-80	1	50	50	50	M8	3.5
	2	25	35	-	M10	4.0
ZC1-95	1	50	50	50	M10	4.0
	2	25	35	-	M10	4.0

Curves

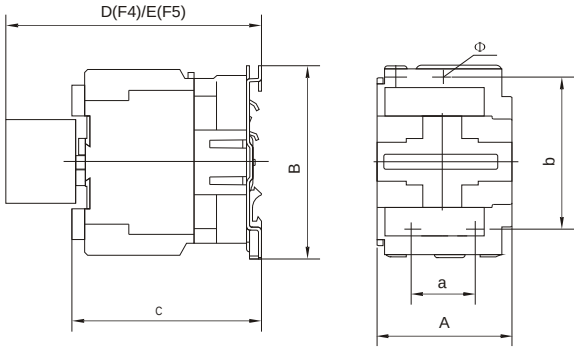


Overall and Mounting Dimensions (mm)

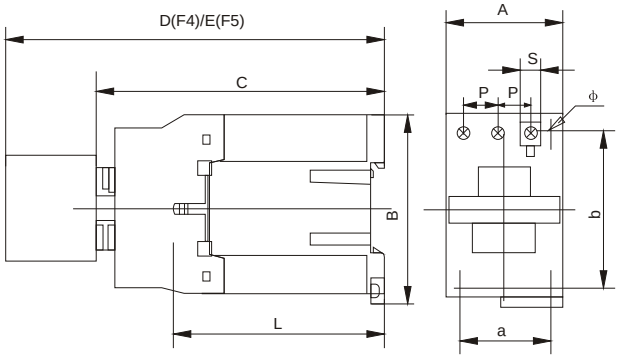
ZC1-09~32



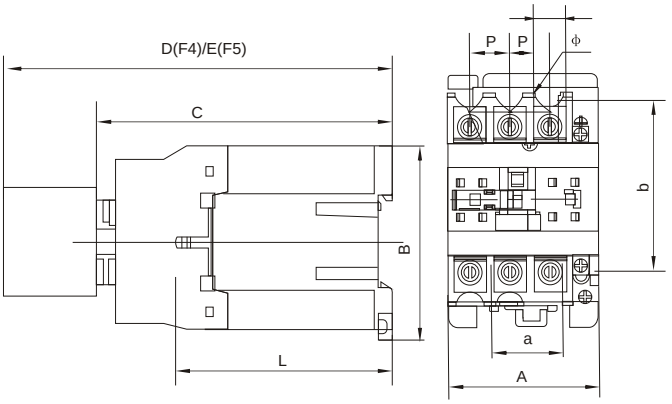
ZC1-40~95



ZC1-09□□Z~32□□Z



ZC1-40□□Z~95□□Z



Note:

1. L: in main circuit, the distance between terminals and plate;
2. P: in main circuit, the distance between two phases;
3. S: in main circuit, the width of contacting plate.

Model	A max	B max	C max	D max	E max	a	b	Φ	L	P	S
ZC1-09(Z)~12(Z)	47	76	82(116)	120.5(154.5)	140.5(174.5)	34/35	50/60	4.5	60(95)	10.5	8.6
ZC1-18(Z)	47	76	87(122)	125.5(160.5)	145.5(180.5)	34/35	50/60	4.5	61(96)	11.3	10.4
ZC1-25(Z)	57	86	95(131)	133.5(169.5)	153.5(189.5)	40	48	4.5	70(107)	13.2	11.7
ZC1-32(Z)	57	86	100(138)	138.5(176.5)	158.5(196.5)	40	48	4.5	71.6(120)	14.5	13
ZC1-4011(Z)~6511(Z)	77	129	116(173)	154.5(211.5)	174.5(231.5)	40	100/110	6.5	78(135)	20	8.6
ZC1-4004/4008(Z)~6504/6508(Z)	84	129	116(173)	154.5(211.5)	174.5(231.5)	40	100/110	6.5	78(135)	20	8.6
ZC1-8011(Z)~9511(Z)	87	129	127(188)	165.5(226.5)	185.5(246.5)	40	100/110	6.5	83(140)	23.5	12
ZC1-8004/8008(Z)~9504/9508(Z)	96	129	127(183)	160.5(221.5)	180.5(241.5)	40	100/110	6.5	83(140)	23.5	12

ZC1-225

General

- Application: remote making & breaking circuits; protect circuit from over-load when assembling with thermal over-load relay; frequent start-up and control of AC contactor;
- Electric ratings: AC50/60Hz, 690V, up to 800A;
- Utilization category: AC-3, AC-4;
- Altitude: ≤2000m;
- Ambient temperature: -5℃~+40℃;
- Mounting category: Ⅲ;
- Mounting conditions: inclination between the mounting plane and the vertical plane should not exceed ±5° ;
- Standard: IEC/EN 60947-4-1

- Control Coil Voltage(AC Coil Operation)

Volts(VAC)		24	36	42	48	110	127	220	230	240	380	415	440	480	500	600
Code	50Hz	B5	C5	D5	E5	F5	G5	M5	P5	U5	Q5	N5	R5	-	S5	Y5
	60Hz	B6	-	D6	E6	F6	G6	M6	-	U6	Q6	-	R6	T6	-	-
	50/60Hz	B7	-	D7	E7	F7	-	M7	P7	-	Q7	N7	R7	-	-	-

- Control Coil Voltage(DC Coil Operation)

Volts(VDC)	12	24	36	48	110	220
Code	JD	BD	CD	ED	FD	MD

ZC1-400

Type Designation

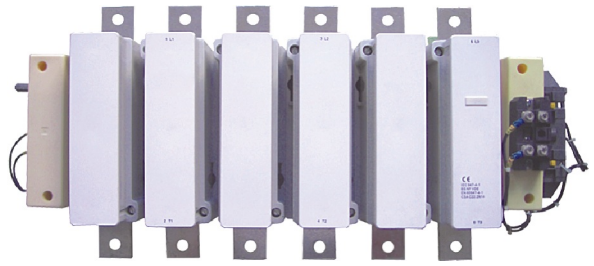
Z C 1-□□□ □ □

- Z: DC operation Blank: AC operation
- 4: Main circuit 4P
  Blank: Main circuit 3P
- Basic specification, expressed with the rated operational current (380V/400V, AC3)
- Design sequence NO.
- Contactor
- Company code

Technical Data

ZC1-630

Standard	IEC/EN60947-4-1						
Model No.		ZC1-115	ZC1-150	ZC1-185	ZC1-225	ZC1-265	ZC1-330
Rated Conventional Heating Current	Ith (A)	200	200	275	275	315	380
Rated Voltage Ui(V)	Ui(V)	690	690	690	690	690	690
Rated Operation Current Ue=380/415V	AC-3 Ie(A)	115	150	185	225	265	330
	AC-4 Ie(A)	52	60	79	86	105	117
Power Controlled 3ph cage Motor AC-3	380/415V KW	55	75	90	110	132	160
	660/690V KW	80	100	110	129	160	220
Electrial life ($x10^3$ operations)	AC-3	600	600	300	300	300	300
	AC-4	100	100	100	100	100	100
Mechanical life ($x10^6$ operations)		6	6	3	3	3	3
Matched Fuse	Size	RT16-1	RT16-2	RT16-2	RT16-2	RT16-2	RT16-3
	A	200	225	315	315	355	450
Main circuit	3P or 4P						



ZC1-780

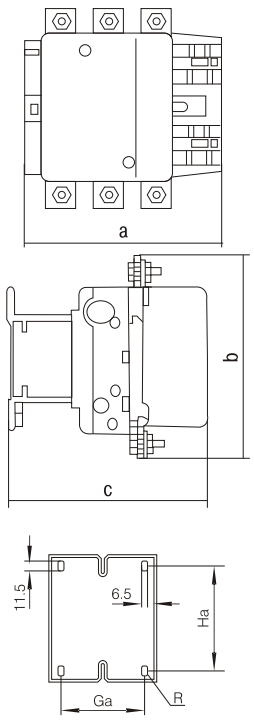
Standard	IEC/EN60947-4-1						
Model No.		ZC1-400	ZC1-500	ZC1-630	ZC1-780	ZC1-800	ZC1-1000
Rated Conventional Heating Current	Ith (A)	460	580	850	1200	850	1200
Rated Voltage Ui(V)	Ui(V)	690	690	690	690	690	690
Rated Operation Current	AC-3 Ie(A)	400	500	630	780	800	1000
Ue=380/415V	AC-4 Ie(A)	138	147	188	240	195	320
Power Controlled 3ph cage Motor AC-3	380/415V KW	200	250	335	400	400	500
	660/690V KW	280	335	450	475	475	560
Electrial life ($x10^3$ operations)	AC-3	300	300	300	200	200	200
	AC-4	100	100	100	50	50	50
Mechanical life ($x10^6$ operations))		3	3	3	2	3	2
Matched Fuse	Size	RT16-3	RT16-4	RT16-4	RT16-4	RT16-4	RT16-4
	A	500	630	800	1250	800	1250
Main circuit	3P or 4P						

Terminal Connection

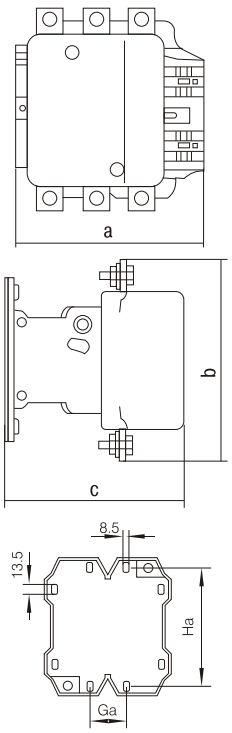
Model	Cabling(Cu)			Screw size	Tightening torque (N • m)
	Number of piece	Cable Cross section(mm)^2	Cu busbar Cross section(mm)^2		
ZC1-115	1	70~90	-	M6	3
ZC1-150	1	70~90	-	M8	6
ZC1-185	1	95~150	-	M8	6
ZC1-225	1	95~150	-	M10	10
ZC1-265	1	120~185	-	M10	10
ZC1-330	1	185~240	-	M10	10
ZC1-400	1(2)	240(150)	30×5	M10	10
ZC1-500	2	150~185	40×5	M10	10
ZC1-630	2	185~240	50×5	M12	14
ZC1-800	2	185~240	50×5	M12	14

Overall and Mounting Dimensions (mm)

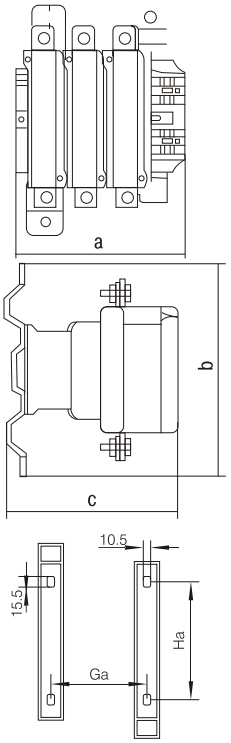
ZC1-115~330



ZC1-400~500



ZC1-630/800



Model	A max	B max	C max
ZC1-115	163.5	162	171
ZC1-150	163.5	170	171
ZC1-185	168.5	174	181
ZC1-225	168.5	197	181
ZC1-265	201.5	203	213
ZC1-330	213	206	219
ZC1-400	213	206	219
ZC1-500	233	238	232
ZC1-630/800	309	304	255

General

- Electric ratings: AC50/60Hz,up to 400V;
- Standard: IEC/EN 60947-4-1

ZJ19-25

- Ambient temperature:-5℃~+40℃,
  the average during 24 hours should not exceed +35℃;
- Altitude:≤2000m;
- Atmosphere conditions: At mounting site,
  relative humidity not exceed 50% at the max temperature
  of +40℃, higher relative humidity is allowable
  under lower temperature. For example,
  RH could be 90% at +20℃,
  special measures should be taken to occurrence of dews;
- Pollution degree: 3
- Installation category: III
- Installation conditions :
  the inclination between installation plane
  and vertical plane is within ± 5 °
- Impact and shake: the products should locate
  in the places where there are no obvious impact and shake.

Type Designation

Z J 19 □□ □□

Number of auxiliary contacts
20: 2N/O, 11: 1N/O+1N/C
02: 2N/C (ZJ19-25~43)
21: 2N/O+1N/C
12: 1N/O+2N/C (ZJ19-63~95)

Basic model code
Design sequence NO.
Capacitor Switching Contactor
Company code

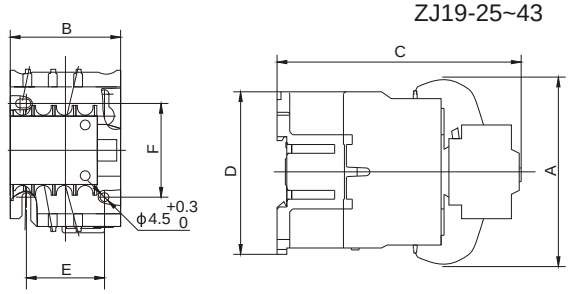
ZJ19-63

Technical Data

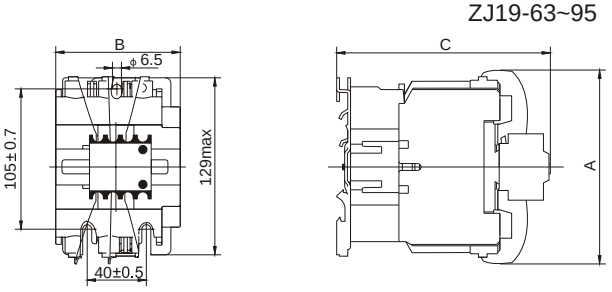
Standard		IEC/EN60947-4-1					
Model No.		ZJ19-25	ZJ19-32	ZJ19-43	ZJ19-63	ZJ19-80	ZJ19-95
Rated Conventional Heating Current	Ith (A)	25	32	43	63	80	95
Rated Work Current	415V/Ie (A)	18	25	32	60	80	95
Capacitor Controlled	220V/240V(Kvar)	6	9	10	15	18	22
	400V/440V(Kvar)	12	18	20	30	36	40
Rated Insulation Voltage	Ui(V)	690	690	690	690	690	690
Rated Operation Voltage	Ue(V)	400	400	400	400	400	400
Electrial life($x10^3$)	Times	120	120	120	100	100	100
Mechanical life($x10^3$)	Times	3000	3000	3000	3000	3000	3000
Restrained Surge Capacity	x Ie	15					
Auxiliary Contact	Ith=10A	AC-15 360VA;DC-13 33W					
	Control Capacity						
COIL PARAMETERS							
Coil Power(VA)	Start-up	76	110	110	230	230	230
	Holding	10	11	11	32	32	32
Rated Control Power	Us(V)	24,36,48,110,220,380					
Pull time	Ms	12~22	15~24	15~24	20~26	20~35	20~35
Release time	Ms	4~12	5~19	5~19	8~12	6~20	6~20
Operation Range	Pick-up	(85%-110%)Us					
	Drop-out	(20%-75%)Us					

Overall and Mounting Dimensions (mm)

ZJ19-25~43



ZJ19-63~95



Model	Amax	Bmax	Cmax	Dmax	E	F	Note
ZJ19-25	80	47	124	76	34/35	50/60	be fixed with 35mm din rail
ZJ19-32	90	58	132	86	40	48	
ZJ19-43	90	58	136	86	40	48	
ZJ19-63	132	79	150	-	-	-	Not only fixed by screws but also could be fixed with 35mm and 75mm din rail
ZJ19-80~95	135	87	158	-	-	-	

Wiring and installation

1 The connection terminals are protected through insulation cover, which is reliable and secure for installation and operation;

2 For ZJ19-25~43, screws are available for installation, as well as the DIN rail;
for ZJ19-63~95, 35mm or 75mm standard rail are available for installation.

General

ZC1-2510N

- Application: remote making & breaking circuits; protect circuit from over-load when assembling with thermal over-load relay; frequent start-up and control of AC contactor;
- Electric ratings: AC50/60Hz, 690V, up to 95A;
- Utilization category: AC-3, AC-4;
- Altitude: ≤2000m;
- Ambient temperature: -5℃~+40℃;
- Mounting category: III;
- Mounting conditions: inclination between the mounting plane and the vertical plane should not exceed ±5° ;
- Standard: IEC/EN 60947-4-1. IEC/EN 60947-5-1.

Type Designation

ZC1-4011N

Z C 1-□ □ □□ □

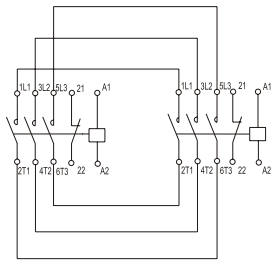
- N: Reversing/change-over type contactor
- Number of contacts
- 10: 3 N/O main contacts+1 N/O auxiliary contact (9A,12A,18A,25A,32A)
- 01: 3 N/O main contacts+1 N/C auxiliary contact (9A,12A,18A,25A,32A)
- 11: 3 N/O main contacts+1 N/O and 1N/C auxiliary contact (40A,50A,65A,80A,95A)
- 04: 4 N/O main contacts (9A,12A,25A,40A,50A,65A,80A,95A)
- 08: 2 N/O and 2N/C main contacts (9A,12A,25A,40A,50A,65A,80A,95A)
- Basic specification, expressed with the rated operational current (380V/400V, AC3)
- Design sequence NO.
- Contactor
- Company code

Structure

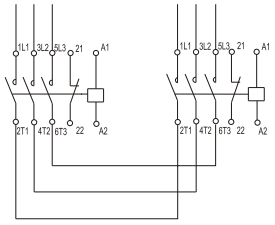
The contactors are composed of two horizontally mounted contactors through mechanical interlock. The lateral-side interlock is mounted between the two contactors.

Wiring

9~95A

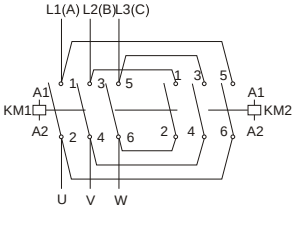


Reversing

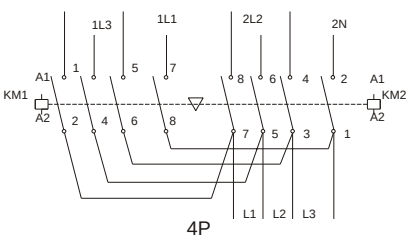


Change-over

115~800A



3P



4P

Connection of connection plate

ZC1-150N

Technical Data

Standard	IEC/EN60947-4-1 IEC/EN60947-5-1					
Model No.		ZC1-09N	ZC1-12N	ZC1-18N	ZC1-25N	ZC1-32N
Rated Conventional Heating Current	Ith (A)	20	20	32	40	50
Rated Voltage Ui(V)	Ui(V)	690	690	690	690	690
Rated Operation Current	AC-3 Ie(A)	9	12	18	25	32
Ue=380/415V	AC-4 Ie(A)	3.5	5	7.7	8.5	12
Power Controlled	220/240V KW	2.2	3	4	5.5	7.5
3ph cage Motor	380/415V KW	4	5.5	7.5	11	15
AC-3	660/690V KW	5.5	7.5	10	15	18.5
Main circuit	3P or 4P					

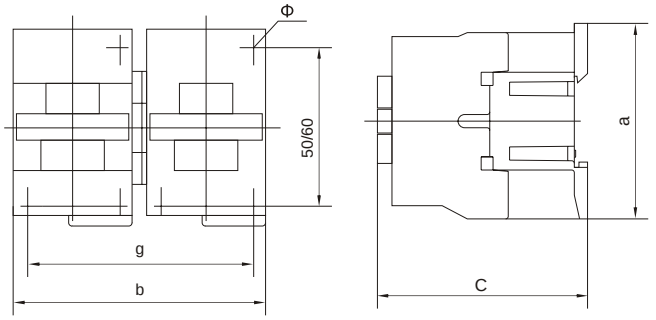
Standard	IEC/EN60947-4-1 IEC/EN60947-5-1					
Model No.		ZC1-40N	ZC1-50N	ZC1-65N	ZC1-80N	ZC1-95N
Rated Conventional Heating Current	Ith (A)	60	80	80	100	125
Rated Voltage Ui(V)	Ui(V)	690	690	690	690	690
Rated Operation Current	AC-3 Ie(A)	40	50	65	80	95
Ue=380/415V	AC-4 Ie(A)	18.5	24	28	37	44
Power Controlled	220/240V KW	11	15	18.5	22	25
3ph cage Motor	380/415V KW	18.5	22	30	37	45
AC-3	660/690V KW	30	33	37	45	45
Main circuit	3P or 4P					

Standard	IEC/EN60947-4-1					
Model No.		ZC1-115N	ZC1-150N	ZC1-185N	ZC1-225N	ZC1-265N
Rated Conventional Heating Current	Ith (A)	200	200	275	275	315
Rated Voltage Ui(V)	Ui(V)	690	690	690	690	690
Rated Operation Current	AC-3 Ie(A)	115	150	185	225	265
Ue=380/415V	AC-4 Ie(A)	52	60	79	86	105
Power Controlled 3ph cage Motor AC-3	380/415V KW	55	75	90	110	132
	660/690V KW	80	100	110	129	160
Main circuit	3P or 4P					

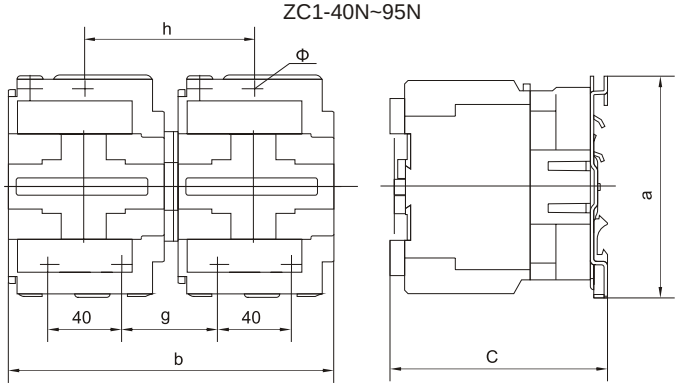
Standard	IEC/EN60947-4-1					
Model No.		ZC1-330N	ZC1-400N	ZC1-500N	ZC1-630N	ZC1-800N
Rated Conventional Heating Current	Ith (A)	380	460	580	850	850
Rated Voltage Ui(V)	Ui(V)	690	690	690	690	690
Rated Operation Current	AC-3 Ie(A)	330	400	500	630	800
Ue=380/415V415V	AC-4 Ie(A)	117	138	147	188	195
Power Controlled 3ph cage Motor AC-3	380/415V KW	160	200	250	335	400
	660/690V KW	220	280	335	450	475
Main circuit	3P or 4P					

Overall and Mounting Dimensions (mm)

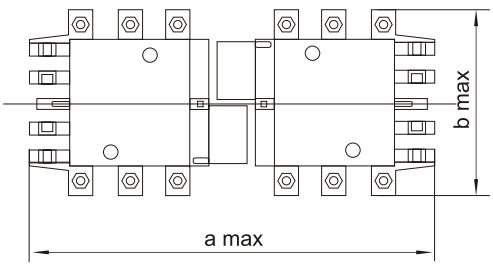
ZC1-09N~32N

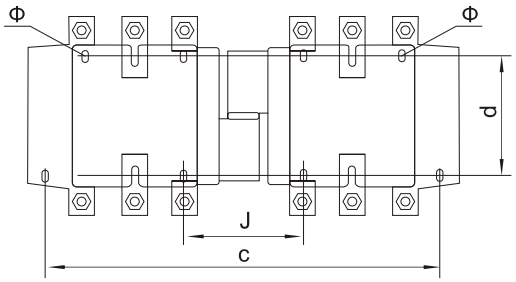


ZC1-40N~95N



Contactor model	a	b	c	g	h	Φ
ZC1-09N~12N	78	105	82	95	–	4.5
ZC1-18N	78	105	87	95	–	4.5
ZC1-25N	90	125	95	111	–	4.5
ZC1-32N	90	125	100	111	–	4.5
ZC1-40N~65N	129	165	116	50	90	6.5
ZC1-80N~95N	129	165	127	57	96	6.5





mm

Contactor model	pole	A max	b max	c	d	J
ZC1-115N	3	350	163	330	110~120	71
ZC1-1154N	4	425	208	370		108
ZC1-150N	3	350	171	330		71
ZC1-1504N	4	425	211	370		111
ZC1-185N	3	350	174	330		78
ZC1-1854N	4	430	223	370		118
ZC1-225N	3	350	197	330		78
ZC1-2254N	4	430	243	370		118
ZC1-265N	3	450	203	428		109
ZC1-2654N	4	546	249	485		157
ZC1-330N	3	450	206	428		124
ZC1-3304N	4	546	251	485		172
ZC1-400N	3	485	206	460	170~180	157
ZC1-4004N	4	595	251	485		157
ZC1-500N	3	485	238	460		156
ZC1-630N	3	650	304	625		139
ZC1-6304N	4	810	364	785	180~190	139
ZC1-800N	3	650	304	625		139

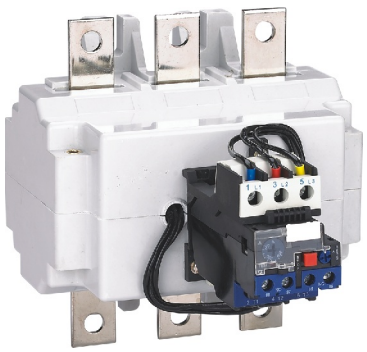
General

- Electric ratings: AC 50/60Hz, 690V, 0.1A~630A;
- Tripping class: 10A;
- Mounting version:
  a. Plug-in: Available for ZR2-03,13,23,33,43;
  b. Independent: Available for ZR2-53, 63;
- Standard: IEC/EN 60947-4-1

Type Designation

Z R 2-□□ □□

- Code of current rating
- Basic specification, expressed with the rated operational current (380V/400V, AC3)
- Frame Size
- Design sequence Number
- Thermal Overload Relay
- Company code



Features

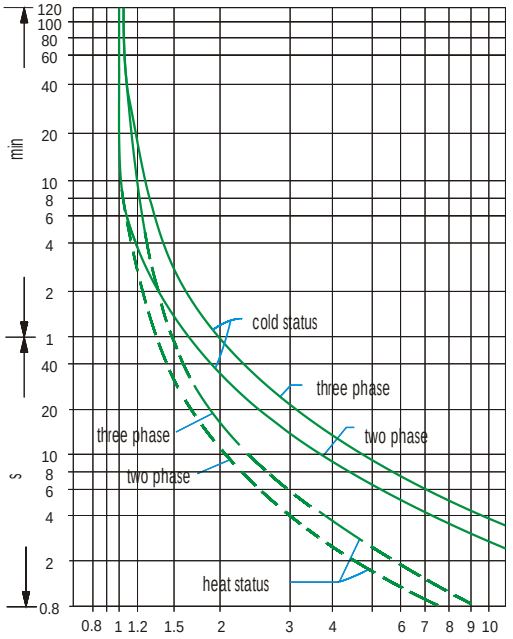
- 3-phase bimetal
- Continuously readjustable current settings
- Temperature compensation
- Tripping indicator
- Test button
- Stop button
- Manual and automatic reset button
- Electrically separated 1N/O plus 1N/C contact

Technical Data

Protection properties

Item	Series No.	I/In		Operating time Tp	Test condition
Overload protection	1	1.05		>2 h	Start from cold status
	2	1.2		≤2h	Start from heat status, right after item No.1
	3	1.5		≤2min	Start from heat status, right after item No.1
	4	7.2		2s<Tp≤10s	Startfromcoldstatus
Phase failure protection	5	Any two phases	Another phase	>2 h	Start from cold status
		1.0	0.9		
	6	1.15	0	≤2 h	Start from heat status, right after item No.5

4.2 Curves



Multiple of rectified current

Main Technical Data

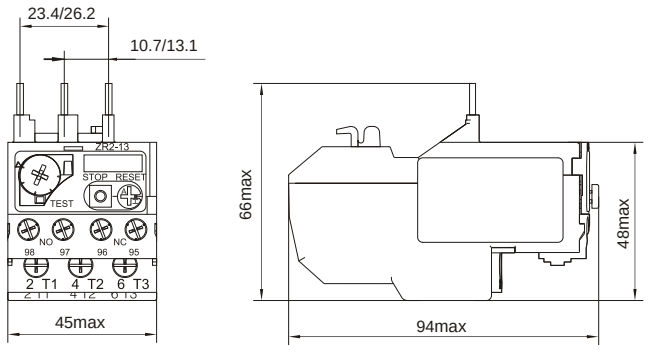
Phase failure protection function		Yes
Automatic & manual reset		Yes
Temperature compensation		Yes
Tripping indicator		Yes
Test & stop pushbutton		Yes
Mounting mode	Plug-in	Yes
	Independent	Yes
	No. of contacts	1N/O+1N/C
Auxiliary contacts	Rated current (A) (AC-15 220V)	2.73
	Rated current (A) (AC-15 380V)	1.58
	Rated current (A) (DC-13 220V)	0.2

Assembly with contactor

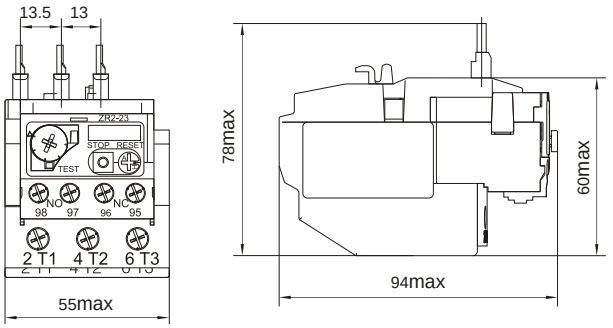
Model of overload relay	Code	Rated current (A)	Recommended fuse type (RT16 is recommended)		Contactor Matched
			aM	gG	
ZR2-13	1301	0.1~0.16	0.25	2	ZC1-09 ZC1-12 ZC1-18 ZC1-25 ZC1-32
	1302	0.16~0.25	0.5	2	
	1303	0.25~0.4	1	2	
	1304	0.4~0.63	1	2	
	1305	0.63~1	2	4	
	1306	1~1.6	2	4	
	1307	1.6~2.5	4	6	
	1308	2.5~4	6	10	
	1310	4~6	8	16	
	1312	5.5~8	12	20	
	1314	7~10	12	20	
	1316	9~13	16	25	
	1321	12~18	20	35	
	1322	17~25	25	50	
ZR2-23	2353	23~32	40	63	ZC1-32
	2355	30~40	40	80	
ZR2-33	3353	23~32	40	63	ZC1-40 ZC1-50 ZC1-65 ZC1-80 ZC1-95
	3355	30~40	40	100	
	3357	37~50	63	100	
	3359	48~65	63	100	
	3361	55~70	80	125	
	3363	63~80	80	125	
	3365	80~93	100	160	

Overall and mounting dimensions (mm)

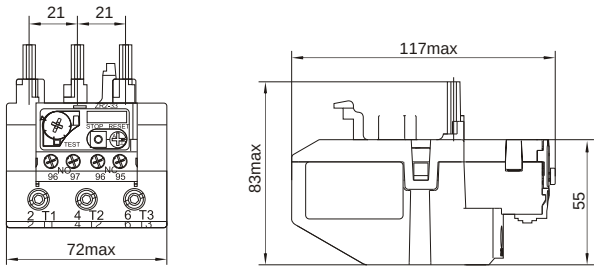
ZR2-13



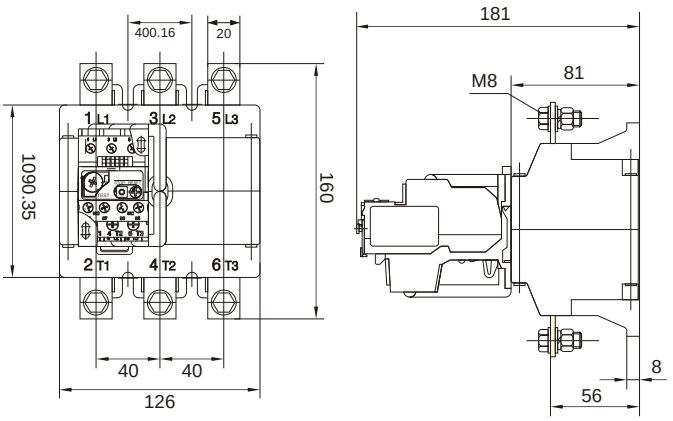
ZR2-23



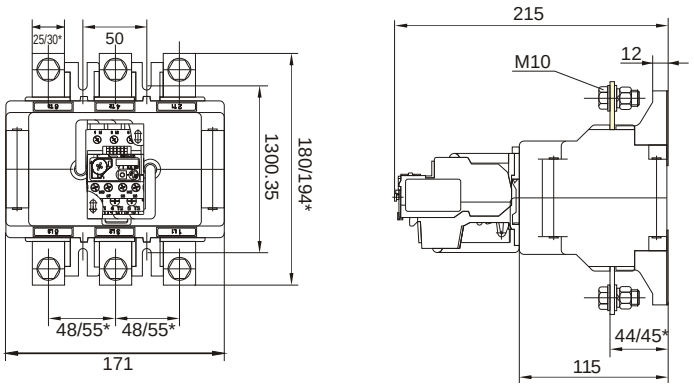
ZR2-33



ZR2-53



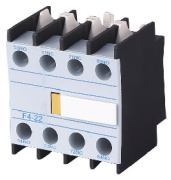
ZR2-63

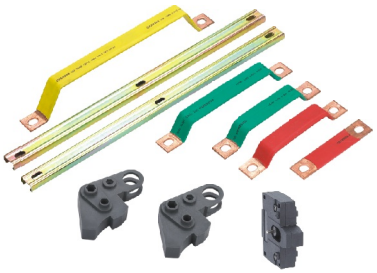


Note: Dimension with ⋆ for the product over 400A.

Wiring

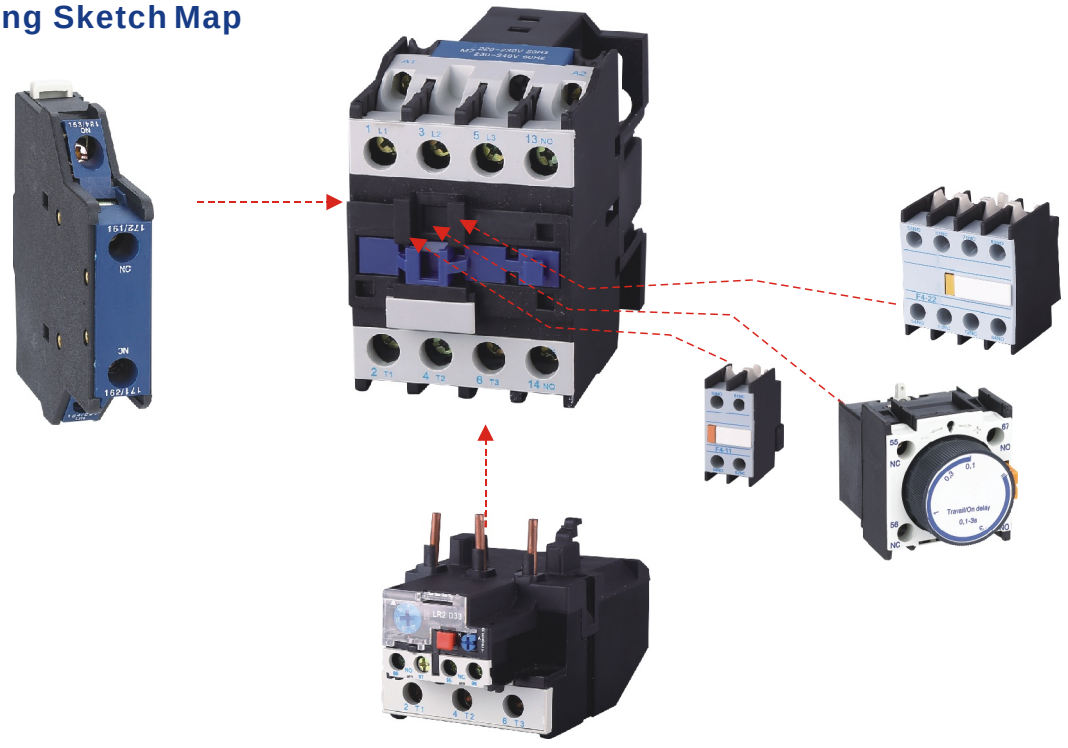
Items			ZR2-03	ZR2-13	ZR2-23	ZR2-33
Cross section area of conductor mm^2	Main circuit	Single core or stranded wire	1~4	1~4	4~10	4~35
		Wiring screw	M3.5	M4	M4	M10
	Auxiliary circuit	Single core or stranded wire	0.5~2.5	0.5~2.5	0.5~2.5	0.5~2.5
		Wiring screw	M3.5	M3.5	M3.5	M3.5

	Sepecification	Model	Contact Number	Contactor Matched
	Auxiliary Contact 4-pole Front mount	F4-40	4NO	ZC1-09~95 ZC1-115~800
		F4-31	3NO+1NC	
		F4-22	2NO+2NC	
		F4-13	1NO+3NC	
		F4-04	4NC	
	Auxiliary Contact 2-pole Front mount	F4-20	2NO	
		F4-11	1NO+1NC	
		F4-02	2NC	
	Auxiliary Contact 2-pole Side mount	F8-20	2NO	ZC1-09~95
		F8-11	1NO+1NC	
		F8-02	2NC	
	1NO+1NC Pneumatic timer ON-delay	F5-T0	0.1~3s	ZC1-09~95 ZC1-115~800
		F5-T2	0.1~30s	
		F5-T4	10~180s	
	1NO+1NC Pneumatic timer OFF-delay	F5-D0	0.1~3s	
		F5-D2	0.1~30s	
		F5-D4	10~180s	
	Auxiliary Contact 4-pole Front mount	F4-40K	4NO	ZC1-09~12K
		F4-31K	3NO+1NC	
		F4-22K	2NO+2NC	
		F4-13K	1NO+3NC	
		F4-04K	4NC	
	Auxiliary Contact 2-pole Front mount	F4-20K	2NO	
		F4-11K	1NO+1NC	
		F4-02K	2NC	
	Contactor Coil	CX1-2	AC Volts	ZC1-09~18
		CX1-4	AC Volts	ZC1-25~32
		CX1-6	AC Volts	ZC1-40~95
	Contactor Coil Water Proof	CX1-6N	AC Volts	ZC1-40~95
		CX1-FF	AC Volts	ZC1-115~150
		CX1-FG	AC Volts	ZC1-185~225
		CX1-FH	AC Volts	ZC1-265
		CX1-FJ	AC Volts	ZC1-400
		CX1-FK	AC Volts	ZC1-500
		CX1-FL	AC Volts	ZC1-630
		CX1-FX	AC Volts	ZC1-780

	Sepecification	Model	Contactor Matched
	Accessories for Reversing/ change-over type contactor	ZA9-0932	ZC1-09~32
		ZA9-4095	ZC1-40~95
		ZA9-FF970	ZC1-115~150
		ZA9-FG970	ZC1-185~225
		ZA9-FJ970	ZC1-330~400
		ZA9-FL970	ZC1-630

	Sepecification	Model	TOR Matched
	Mounting Block for Thermal Overload Relay	ZA9-1064	ZR2-13
		ZA9-2064	ZR2-23
		ZA9-3064	ZR2-33

Mounting Sketch Map



ZQ1-09/18

ZQ1-25/32

ZQ1-40~95

General

- ZQ1 series electromagnetic starter
  ("starter" for short hereinafter) applies mainly to
  circuit with AC current of 50Hz (or 60Hz),
  rated operational voltage of 660V
  and rated controlled power up to 15kW
  (current up to 32A)
  for using to control the direct start
  and halt of the electromotor to protect the motor
  from overload and phase failure.
- The starter conforms to standards IEC/EN60947-4-1

Type Designation

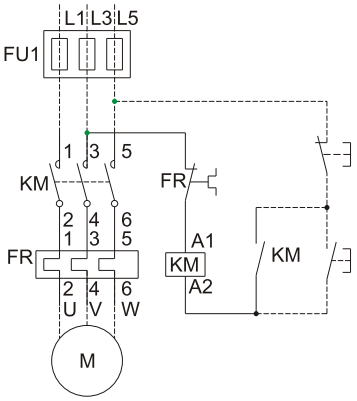
Z Q 1 □ □ □□□□

- Code of Thermal Overload Relay ZR2
- Frame Size of Contactor ZC1
- Design sequence Number
- DOL Electromagnetic Starter
- Company code

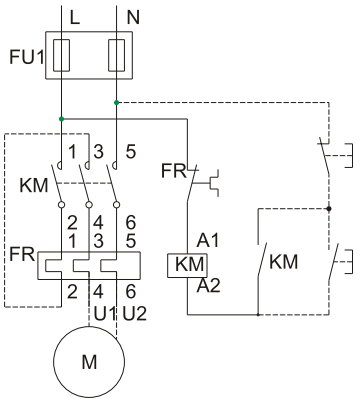
Features

- 3-phase bimetal
- Continuously readjustable current settings
- Temperature compensation
- Tripping indicator
- Test button
- Stop button
- Manual and automatic reset button
- Electrically separated 1N/O plus 1N/C contact

Wiring Diagram



Control supply voltage is as the same as the main circuit voltage (three-phrase)



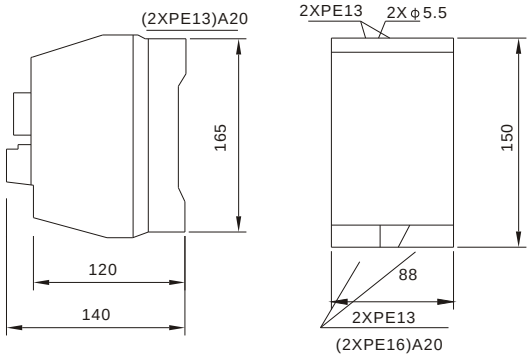
Control supply voltage is as the same as the main circuit voltage (single-phrase)

Basic Model and main technical parameter of the starter

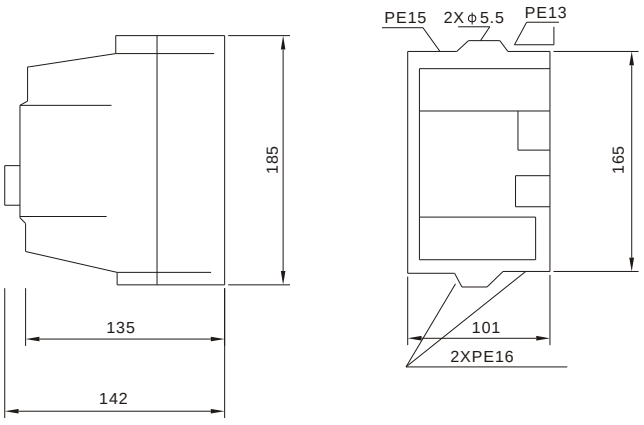
Model	Range of setting current A	current (A)	Maximum rated Power (kW)			Model of equipped AC contactor	TOR matched
			AC-3				
			660V	380V	220V		
ZQ1-09/1301	0.1~0.16	9	5.5	4	2.2	ZC1-09	ZR2-13
ZQ1-09/1302	0.16~0.25						
ZQ1-09/1303	0.25~0.4						
ZQ1-09/1304	0.4~0.63						
ZQ1-09/1305	0.63~1						
ZQ1-09/1306	1~1.6						
ZQ1-09/1307	1.6~2.5						
ZQ1-09/1308	2.5~4						
ZQ1-09/1310	4~6						
ZQ1-09/1312	5.5~8						
ZQ1-09/1314	7~10						
ZQ1-18/1314	7~10	18	10	7.5	4	ZC1-18	ZR2-13
ZQ1-18/1316	9~13						
ZQ1-18/1321	12~18						
ZQ1-25/1321	12~18	25	15	11	5.5	ZC1-25	ZR2-13
ZQ1-25/1322	17~25						
ZQ1-32/2353	23~32	32	18.5	15	7.5	ZC1-32	ZR2-23
ZQ1-40/3353	30~40	40	30	18.5	11	ZC1-40	ZR2-33
ZQ1-50/3357	37~50	50	33	22	15	ZC1-50	ZR2-33
ZQ1-65/3359	48~65	65	37	30	18.5	ZC1-65	ZR2-33
ZQ1-80/3361	55~70	80	45	37	22	ZC1-80	ZR2-33
ZQ1-80/3363	63~80						
ZQ1-95/3365	80~93	95	45	45	25	ZC1-95	ZR2-33

Overall and Mounting Dimensions (mm)

ZQ1-09~18(Plastic base + Plastic cover)



ZQ1-25~32(Plastic base + Plastic cover)



Note: Dimension of ZQ1-40~95 is same as ZQ1-40~95

General

ZK 1-25~40 AC contactor for air condition hereinafter as contactor for short, it is applicable for the circuit with AC 50Hz, rated working voltage 380V, rated working current 40A, as switching contact and breaking circuit.

Normal Operation And Mounting Requirement

Ambient temperature: -5~+40, the average value not more than +35 within 24 hours, altitude: the installed place not more than 2000m.

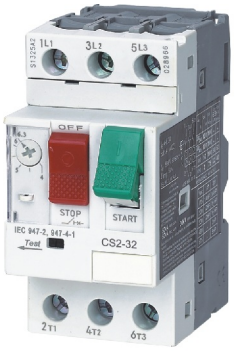
Air condition: humiduity at lower temperature, monthly average lowest temperature not more than +25, in the wettest month, the monthly average max ralative humidity is not more than 90% in this month , and think about the condensation on the product for temperature changed.

Pollution type: III

Installation condition: the obliquity of inslationface and vertical face not more than 5 Impact vibration: the product is installed and operated the place where no shaking, vibration and impact.

Specifications

Type	Rated Working Current(A)	Rated Working Voltage(A)
ZK1-1P	25A	24V/120V/240V
ZK1-1P	30A	24V/120V/240V
ZK1-1P	40A	24V/120V/240V
ZK1-2P	25A	24V/120V/240V
ZK1-2P	30A	24V/120V/240V
ZK1-2P	40A	24V/120V/240V
ZK1-3P	30A	24V/120V/240V
ZK1-3P	40A	24V/120V/240V
ZK1-3P	50A	24V/120V/240V
ZK1-3P	60A	24V/120V/240V
ZK1-3P	70A	24V/120V/240V
ZK1-3P	90A	24V/120V/240V



ZS2-32

ZS2-80

General

- Electric ratings: AC690V, 32A, 80A;
- Standard: IEC/EN 60947-2, IEC60947-4-1

Type Designation

Z S 2-□□ □□

- Code of Rated current
- Frame size rated current (A)
- Design sequence Number
- AC motor starter
- Company code

Operating Conditions

- Temperature: -5 ℃ ~ +40℃,average temperature in 24 hours not exceed +35 ℃
- Altitude: not exceed 2000m
- Air conditions:
  At mounting site, relative humidity not exceed 50% at the max temperature of +40℃, higher relative humidity is allowable under lower temperature,for example, RH could be 90% at +20℃
- Pollution grade: Grade Ⅲ
- Release grade: 10A(ZS2-32) 10A(ZS2-80)
- Rated operational system: Continuous operational system
- Mounting conditions:
  The inclination between the mounting plane and the vertical plane shall not exceed 5°
  The product shall be installed and operated at a place without obvious shake, Impact and vibration.

Technical Data

Protection properties

Over-load Protection Properties

Series No.	Multiple of setting current	Initial status	Time		Expected results	Ambient temperature
1	1.05	Cold status	t≥2h		Non-tripping	+20℃±2℃
2	1.20	Heat status (right after test.1)	t<2h		Tripping	+20℃±2℃
3	1.50	Heat status (right after test.1)	Tripping class	10A t<2min 10 t<4min	Tripping	+20℃±2℃
4	7.20	Cold status	Tripping class	10A 2s<t≤10s 10 4s<t≤10s	Tripping	+20℃±2℃

Phase failure protection properties

Series No.	Multiple of setting current		Initial status	Time	Expected results	Ambient temperature
	Any 2 phase	The other phase				
1	1.0	0.9	Cold status	t≥2h	Non-tripping	+20℃±2℃
2	1.15	0	Heat status (right after test.1)	t <2h	Tripping	+20℃±2℃

Temperature compensation properties

Series No.	Multiple of setting current	Initial status	Time	Expected results	Ambient temperature
1	1.0	Cold status	t≥2h	Non-tripping	+40℃±2℃
2	1.2	Heat status (right after test.1)	t<2h	Tripping	+40℃±2℃
3	1.05	Cold status	t≥2h	Non-tripping	-5℃±2℃
4	1.3	Heat status (right after test.3)	t<2h	Tripping	-5℃±2℃

Model of overload relay	Code	Rated current (A)	Rated ultimate short-circuit breaking capacity Icu(kA)			Rated service short-circuit breaking capacity Ics(kA)			Standard rated power of three-phase motor (kW)		
			230/240V	400/415V	660/690V	230/240V	400/415V	660/690V	230/240V	400/415V	660/690V
ZS2-32	3201	0.1~0.16	100	100	100	100	100	100	-	-	-
	3202	0.16~0.25	100	100	100	100	100	100	-	-	-
	3203	0.25~0.4	100	100	100	100	100	100	-	-	-
	3204	0.4~0.63	100	100	100	100	100	100	-	-	0.37
	3205	0.63~1	100	100	100	100	100	100	-	-	0.55
	3206	1~1.6	100	100	100	100	100	100	-	-	1.1
	3207	1.6~2.5	100	100	3	100	100	2.25	0.37	0.75	1.5
	3208	2.5~4	100	100	3	100	100	2.25	0.75	1.5	3
	3210	4~6.3	100	100	3	100	100	2.25	1.1	2.2	4
	3214	6~10	100	100	3	100	100	2.25	2.2	4	7.5
	3216	9~14	100	15	3	100	7.5	2.25	3	5.5	9
	3220	13~18	100	15	3	100	7.5	2.25	4	9	11
	3221	17~23	50	15	3	50	6	2.25	5.5	11	15
	3222	20~25	50	15	3	50	6	2.25	5.5	11	18.5
	3232	24~32	50	15	3	50	6	2.25	7.5	12.5	22
ZS2-80	8025	16~25	-	15	-	-	7.5	-	5.5	11	-
	8040	25~40	-	15	-	-	7.5	-	11	22	-
	8063	40~63	-	15	-	-	7.5	-	15	33	-
	8080	56~80	-	15	-	-	7.5	-	22	45	-

Accessories

Under-voltage release

Rated insulation voltage Ui(V)	Voltage range of operation	Model	Specification
690	35%~70%Ue	ZS2-UV110	110~115V 50Hz
690	35%~70%Ue	ZS2-UV127	127V 60Hz
690	35%~70%Ue	ZS2-UV220	220~240V 50Hz
690	35%~70%Ue	ZS2-UV380	380~400V 50Hz
690	35%~70%Ue	ZS2-UV440	440V 60Hz

Shunt release

Rated insulation voltage Ui(V)	Voltage range of operation	Model	Specification
690	70%~110%Ue	ZS2-SH110	110~115V 50Hz
690	70%~110%Ue	ZS2-SH127	127V 60Hz
690	70%~110%Ue	ZS2-SH220	220~240V 50Hz
690	70%~110%Ue	ZS2-SH380	380~400V 50Hz
690	70%~110%Ue	ZS2-SH440	440V 60Hz

Instantaneous auxiliary contact
ZS2-AE20, ZS2-AE11

Rated insulation voltage Ui(V)	Conventional heating current Ith(A)	Model	Configuration
250	2.5	ZS2-AE20	2N/O
250	2.5	ZS2-AE11	1N/O+1N/C

ZS2-AN20, ZS2-AN11,ZS2-AU20, ZS2-AU11

Rated insulation voltage Ui(V)	Conventional heating current Ith(A)	Model	Configuration	Starter matched
690	6	ZS2-AN20	2N/O	ZS2-32
690	6	ZS2-AN11	1N/O+1N/C	
690	6	ZS2-AU20	2N/O	ZS2-80
690	6	ZS2-AU11	1N/O+1N/C	

Fault signal contact and instantaneous auxiliary contact

Rated insulation voltage Ui(V)	Conventional heating current Ith(A)		Model	Configuration
	Instantaneous auxiliary contact	Fault signal contact		
690	6	2.5	ZS2-FA0110	1N/C+1N/O
690	6	2.5	ZS2-FA0101	1N/C+1N/C
690	6	2.5	ZS2-FA1010	1N/O+1N/O
690	6	2.5	ZS2-FA1001	1N/O+1N/C

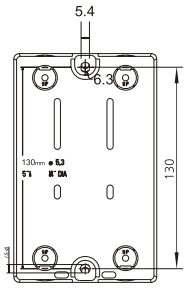
Application class, rated operational voltage and tated operational current of instantaneous auxiliary contact

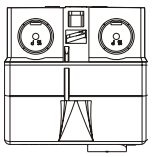
Utilization category	AC-15				DC-13		
Rated operational voltage Ue(V)	24	48	110/127	230/240	24	48	60
Rated operational current Ie(A)	2	1.25	1	0.5	1	0.3	0.15
Normal operational power P(W)	48	60	127	120	24	15	9

ZS2-MC Installation box without pushbutton	IP55

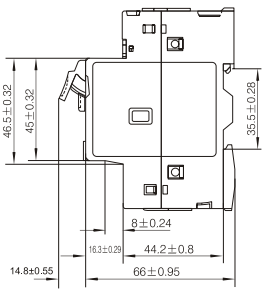
Overall and Mounting Dimensions (mm)

ZS2-MC

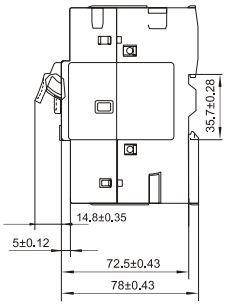


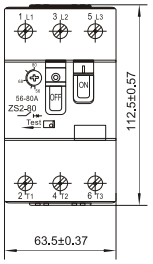


ZS2-32



ZS2-80





General

ZJ20 series AC contactor (hereinafter referred to as contactor), mainly used for AC 50Hz (or 60Hz), rated working voltage to 660V. Rated current to 630A circuit for remote connection and breaking circuit, and can be combined with the appropriate thermal overload relay. to protect circuits that may operate overload.

Standard: GB14048.5, IEC60947-5-1.

Type Designation

ZJ 20-□ □ / □

- Auxiliary specification code: 06 is 660V
- Derived code: JZ represents AC and DC universal power saving; J means AC noise elimination and energy saving. (More than ZJ20-63 supplies electricity saving products)
- (AC-3380V) Rated Working Current (A)
- Design Serial Number
- AC contactor

Working Conditions

1. Ambient air humidity is -5℃ ~+40 ℃, and the mean value within 24 hours does not exceed +30 ℃.
2. Altitude: no more than 2000m.
3. Atmospheric conditions: the relative humidity of air is not more than 50% at the highest temperature of +40 ℃; high relative humidity can be allowed at lower temperatures, such as 90% at 20. Special measures should be taken for the occasional condensation caused by temperature changes.
4. pollution grade: Level 3.
5. Install class: III class.
6. Installation conditions: the inclination of the installation surface to the vertical plane is not greater than 5 degrees.
7. Impact vibration: products should be installed and used in areas without significant shaking, impact and vibration.

Main Parameters And Technical Performance

1. Coil rated power supply voltage Us: AC 58Hz, 110V, 127V, 220V, 380V; DC: 110V, 220V
2. mechanical life: ZJ20-10, 16, 25, 40, 63, 100, 160 are 10 million times, ZJ20-250, 400, 630 are 6 million times.
3. The saving rate of electricity saving products (see Table 1).

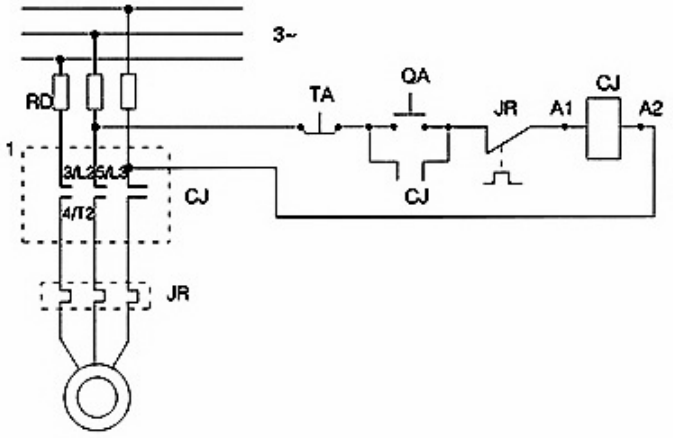
Model	ZJ20-63~160JZ	ZJ20-630J	ZJ20-250~630JZ
Power Saving Rate	90	95	95

4、Main parameters and performance metrics contact (see Table 2).

Model	Rated insulation voltage Ui(V)	Conventional free air heating current Ith (A)	AC-3 uses the maximum power of the three-phase squirrel cage motor controlled by class			Times / h (AC-3)	AC-3 life (10,000 times)	Coil power start / hold VA / VA	Selected fuse (SCPD) model
			220V	380V	660V				
ZJ20-10	690	10	2.2	4	4	1200	100	65/9	RT16-20
ZJ20-16		16	4.5	7.5	11			62/9.5	RT16-32
ZJ20-25		32	5.5	11	13			93/14	RT16-50
ZJ20-40		55	11	22	22			175/19	RT16-80
ZJ20-63		80	18	30	35		120	480/57	RT16-160
ZJ20-100		125	28	50	50			570/61	RT16-250
ZJ20-160		200	48	85	85			855/85.5	RT16-315
ZJ20-250	690	315	80	132	--	600	60	1710/152	RT16-400
ZJ20-400		400	115	200	220			1710/250	RT16-500
ZJ20-630		630	175	300	--			3578/91.2	RT16-630

5、Contact type auxiliary contacts, and the number of basic parameters (see Table 3).

Model	Conventional free air heating current Ith(A)	Rated insulation voltage (V)	Rated working voltage (V)		Rated operating current (A)		Rated control capacity		Number of contact types			
			AC	DC	AC	DC	AC	DC				
ZJ20-10~40	10	690	380	220	0.26	0.14	AC-15	DC-13	Two normally open normally closed two			
			220	110	0.45	0.27	100VA	30W				
ZJ20-63~160	10	690	380	220	0.80	0.27	AC-15	DC-13	Two normally open normally closed two			
			220	110	1.4	0.6	300VA	60W				
ZJ20-250~630	16	690	380	220	1.3	0.27	AC-15	DC-13	Open	4	3	2
			220	110	2.3	0.6	500VA	60W	Closed	2	3	4



Structural features

The contact system of the contactor is a direct-acting, double-breakpoint arrangement.

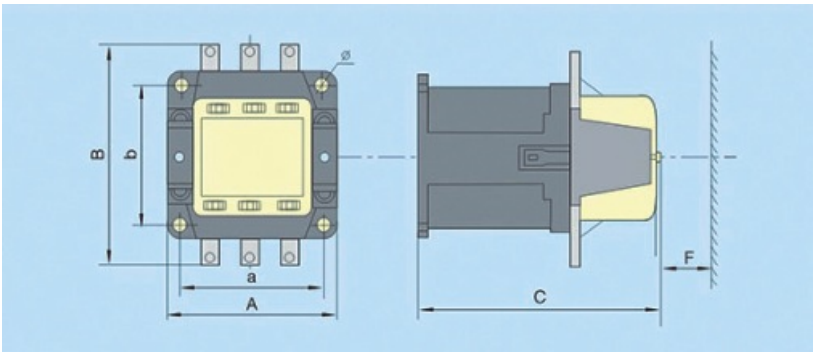
The ZJ20-40A and above auxiliary contacts are mounted as separate components on both sides of the main contact and are electrically separated.

ZJ20-10~25A products can be installed by screws or 35mm standard rails.

ZJ20-10~16A products use double breakpoints to simply break the arc extinguishing chamber, and the rest use plastic grid arc extinguishing cover, which has high breaking capacity and reliability. The advantage of high sex.

ZJ20-63~630 power-saving products have DC general-purpose power-saving modules, which can not only derive noise-absorbing energy-saving products or DC-operated products, but also do not occupy Auxiliary contacts, which greatly improve the reliability and longevity of road products.

Shape and installation dimensions



Model	A	B	C	a	b	F	Φ
ZJ20-10	44.5	67.5	107	35±0.31	55±0.37	10	5
ZJ20-16	44.5	73	116.5	35±0.31	60±0.37	10	5
ZJ20-25	53	91	122	40±0.31	80±0.37	10	5
ZJ20-40	87	112.5	125	70±0.31	80±0.37	30	5
ZJ20-63	116	142	146	100±0.4	90±0.4	60	5.8
ZJ20-100	122	147	154	108±0.435	92±0.435	70	7
ZJ20-160	146	187	178	130±0.5	130±0.5	100	9
ZJ20-250	190	235	230	160±0.5	150±0.5	110	9
ZJ20-400	190	235	230	160±0.5	150±0.5	110	9
ZJ20-630	245	294	272	210±0.5	180±0.5	120	

Ordering instructions

1. Must be pointed out when ordering

1.1 The complete model and name of the contactor;

1.2 The rated working voltage and frequency or specification code of the coil;

1.3 Auxiliary contact combination, if not specified, 160A and below specifications provide two normally open and two normally closed, 250A and above specifications provide four normally open and two normally closed

1.4 Order Quantity

2 .Ordering example:

ZJ20-63 AC contactor, coil voltage, 380V50Hz, 10 sets.

General

ZJ40 series AC contactor (hereinafter referred to as contactor) is mainly used for AC 50Hz or 60Hz, rated voltage to 660V or 1140V, current to 1000A power system to connect and disconnect circuit, and with appropriate thermal relay or electronic protection The devices are combined into a motor starter to protect circuits that may be overloaded.

Standard: GB14048.5, IEC60947-5-1.

Type Designation

CJ40 – □ □

- Derived code
- JZ is AC/DC universal power saving type (only ZJ40-63 or above)
- (AC-3, 380V) rated operating current (A)
- Design Number
- AC contactor

Normal working conditions and installation conditions

1. The ambient air temperature is: -5° C + 40° C, and the average value does not exceed +35° C within 24 hours.
2. Altitude: no more than 2000m.
3. atmospheric conditions: the maximum temperature +40, the first humidity of the air does not exceed 50%; at lower temperatures Higher relative humidity can be tolerated, for example up to 90% at 20° C. Condensation that occasionally occurs due to temperature changes should be taken Special measures.
4. Pollution level: level 3
5. Installation category: Class III.
6. Installation conditions: the inclination of the mounting surface and the vertical plane is not more than 5°.
7. Shock vibration: The product should be installed and used in places where there is no significant shaking, shock and vibration.

Main parameters and technical performance

1. Main parameters and technical performance indicators (see Table 1)

Model	Rated insulation voltage Ui(V)	Conventional free air heating current Ith(A)	AC-3 uses the maximum power of the three-phase squirrel cage motor controlled by class				times / h (AC-3)	AC-3 life (10,000 times)	Coil power		Selected fuse (SCPD) model
			220V	380V	660V	1140V			Start VA	Keep VA	
ZJ40-63	1140	80	18.5	30	55	-	1200	120	480	85.5	RT16-160
ZJ40-80			22	37	55	-					RT16-160
ZJ40-100		125	30	45	75	-					RT16-250
ZJ40-125			37	55	75	55					RT16-250
ZJ40-160		250	45	75	110	-			880	152	RT16-315
ZJ40-200			55	90	110	-					RT16-315
ZJ40-250			75	132	110	110					RT16-315
ZJ40-315		500	90	160	300	-	600	60	1710	250	RT16-500
ZJ40-400			110	220	300	-					RT16-500
ZJ40-500			150	280	300	220					RT16-500
ZJ40-630		800	200	335	475	-	300	30	3578	91.2	RT17-4/630
ZJ40-800			250	450	475	-					RT17-4/800
ZJ40-1000		1000	360	625	475	600					RT17-4/1250(1000)

2、Combination of auxiliary contacts and basic parameters (see Table 2) 2

Model	Rated insulation voltage Ui(V)	Conventional free air heating current Ith(A)	Rated insulation voltage (V)		Rated working voltage (V)		Rated control capacity		Number of contact types			
			AC	DC	AC	DC	AC	DC				
ZJ40-63~250	10	690	380	220	0.82	0.27	AC-15	DC-13	Open	4	3	2
			220	110	1.4	0.6	300VA	60W	Closed	2	3	4
ZJ40-315~1000	16	690	380	220	1.3	0.27	AC-15	DC-13	Open	4	3	2
			220	110	2.3	0.6	500VA	60W	Closed	2	3	4

3、Saving products saving rate (see Table 3) 3

Model	ZJ40-63~250JZ	ZJ40-315~1000JZ
Saving rate%	90	90

4. Operating conditions: pull-in voltage: (85% ~ 110%) Us; release voltage: ordinary type is (20% ~ 75%) Us, the rest is (10% ~ 75%) Us.

5. The coil control power supply voltage Us is: AC 50Hz, 110V, 127V, 220V, 380V; DC 110V, 220V.

6. Mechanical life: 10 million times below 250A, 6 million times for 315~500A, and 3 million times for 630~1000A.

Structural features

The contactor is a direct-acting structure, the contact arc-extinguishing system is located at the upper part, the electromagnetic system is located at the lower part, the contact is double-break point, and is made of a silver alloy.

63A and above have six pairs of auxiliary contacts, three combinations (see Table 2).

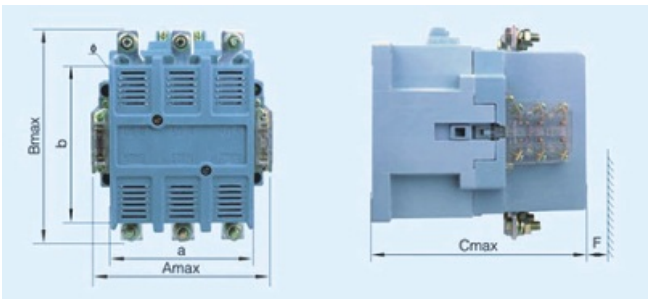
The arc-extinguishing cover of ZJ40-63A and above is composed of arc-proof plastic and iron grid. On the one hand, it overcomes the shortcomings of the six-terrain arc-extinguishing cover.

On the other hand, it has the advantages of high breaking capacity and high reliability.

Shape and installation dimensions

Product shape and installation dimensions (see Table 4). 4

Model	Dimensions			Installation size		Safety zone F			
	A	B	C	a	b	Φ	380V	660V	1140V
ZJ40-63~125	116	143	154	100±0.435	90±0.435	5.8	20	40	40
ZJ40-160~200	146	186	184	130±0.5	130±0.5	9	30	40	50
ZJ40-250	146	186	184	130±0.5	130±0.5	9	40	60	60
ZJ40-315~400	190	235	230	160±0.5	160±0.5	9	40	60	60
ZJ40-500	190	235	230	160±0.5	160±0.5	9	50	70	80
ZJ40-630~1000	244.5	347	287.5	210±0.575	180±0.5	11	-	-	-



Ordering Information

1. Usually contactor, should indicate the following points

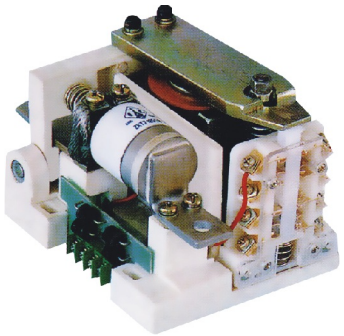
1.1 The complete model and name of the contactor;

1.2 The rated working voltage and frequency or specification code of the coil;

1.3 Auxiliary contact combination, if not specified, 63A and above specifications provide four normally open and two normally closed

1.4 Order Quantity

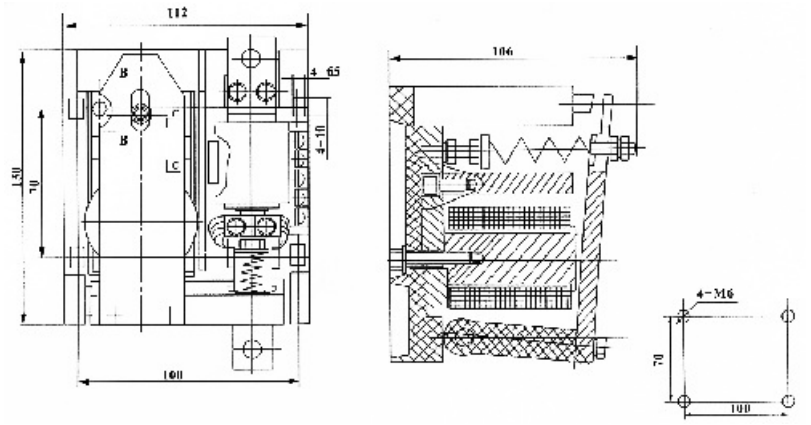
2 Ordering example: ZJ40-63 AC contactor, coil voltage 380V 50Hz, 10 sets.



Main Technical Parameters

Model		ZKJ5-125-1
The Number Of Main Loop Poles		1
Rated Voltage (frequency) (V)	The Main Circuit	380
	Control Circuit	220
Rated Current (A)		125
Main Contact Parameters	Distance (mm)	1.5±0.2
	Overtravel (mm)	>1
	Final Pressure (N)	30±3
Ability To Connect		10Ie，100time
Ability To Communicate		8Ie，25time
Limit Breaking Current (A)		2000，3time
Electric Life Number AC3		60×10^4
Mechanical Life		300×10^4
Weight		2.2kg

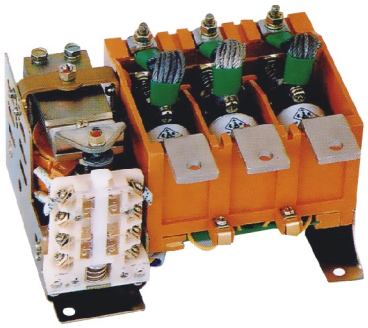
Outline and installation dimensions

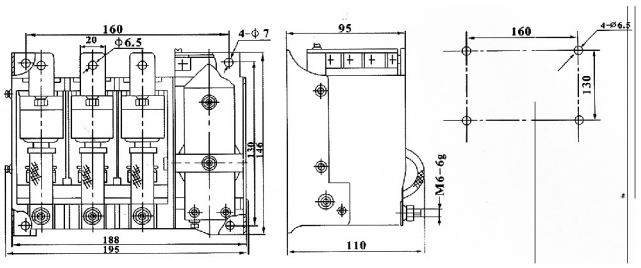


Main Technical Parameters

Model		ZKJ5-125/1140
Rated Voltage (frequency) (V)	The Main Circuit	1140
	Control Circuit	36,127,220,380
Rated Current (A)		125
Main Contact Parameters	Distance (mm)	1.8±0.2
	Overtravel (mm)	1±0.2
	Final Pressure (N)	45±5
Ability To Connect		10Ie，100time
Ability To Communicate		8Ie，25time
Limit Breaking Current (A)		2000，3time
Electric Life Number	AC3	60×10^4
	AC4	6×10^4
Mechanical Life		300×10^4
Weight		3.8kg

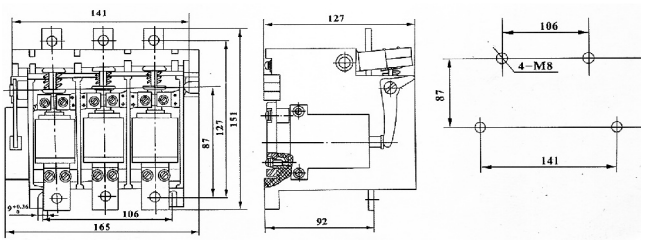
Outline and installation dimensions



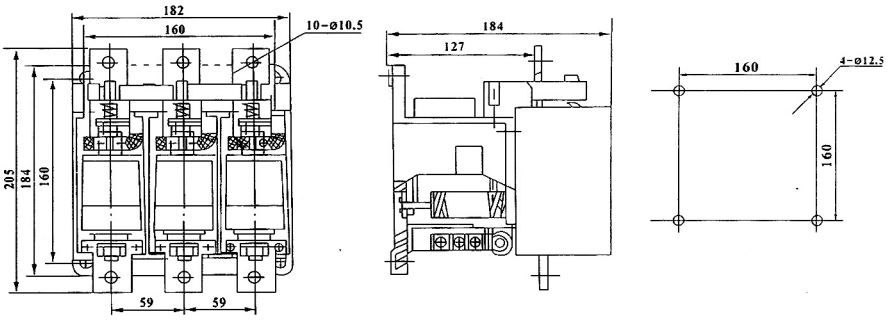


Main Technical Parameters

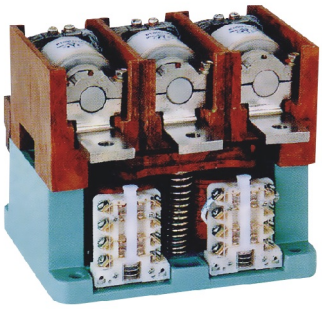
Model		ZKJ5 - 80/1140	ZKJ5 - 125/1140	ZKJ5 - 160/1140	ZKJ5 - 250/1140	ZKJ5 - 400/1140	ZKJ5 - 600/1140
Rated Voltage (frequency) (V)	The Main Circuit	1140					
	Control Circuit	36,110,220,380					
Rated Current (A)		80	125	160	250	400	600
Main Contact Parameters	Distance (mm)	1.8 ± 0.2	1.8 ± 0.2	1.8 ± 0.2	1.8 ± 0.2	$2^{+0.5}_{0}$	$2^{+0.5}_{0}$
	Overtravel (mm)	>1	>1	>1	>1.5	>1.5	>1.5
	Final Pressure (N)	30 ± 5	30 ± 5	30 ± 5	80 ± 10	120 ± 20	190 ± 20
Power frequency withstand voltage V (effective value)	The main circuit	4200					
	Auxiliary circuit	2500					
	Control circuit	2000					
Ability To Connect		10Ie,100time					
Ability To Communicate		8Ie,25time					
Limit Breaking Current (A)		2000, 3 time					
Electric Life Number	AC3	60×10^4					
	AC4	6×10^4	6×10^4	6×10^4	6×10^4	2×10^4	0.5×10^4
Mechanical Life		300×10^4					
Weight		3.8kg	3.8kg	3.8kg	8kg	11.3kg	19.5kg

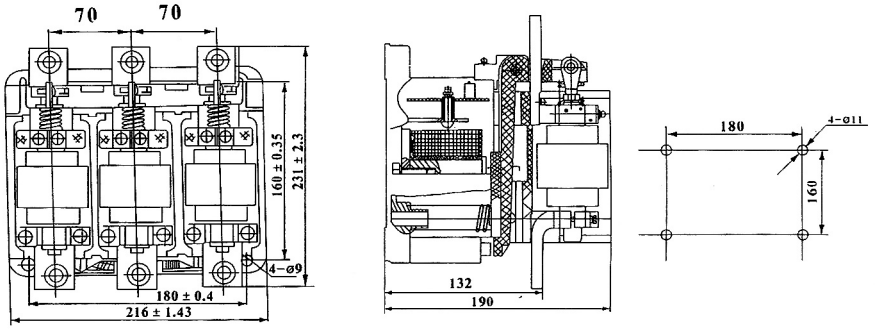


ZKJ5-250/1140

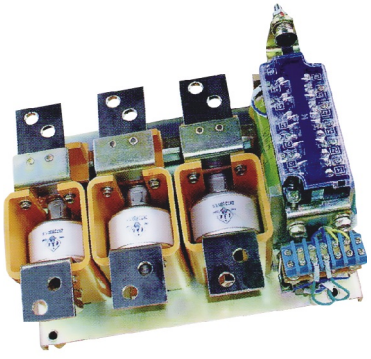


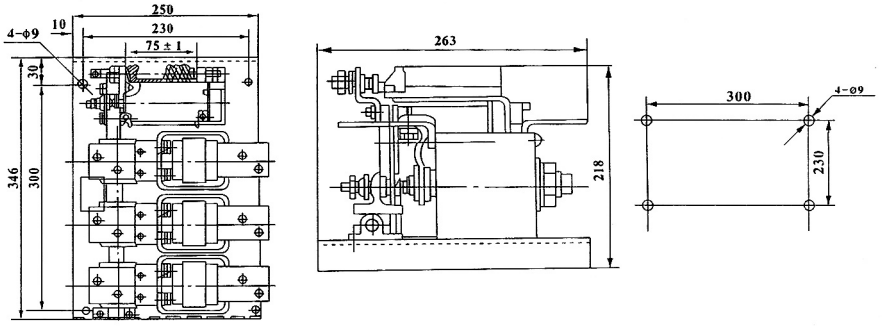
ZKJ5-400/1140





ZKJ5-600/1140(three pole)





ZKJ5-600-1/1140(single pole)