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PEOPLE ELECTRIC
PRODUCT SALES MANUAL

人民电器

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People Ele. Appliance Group was wholly owned company of People Holding Group, one of Chinese Top 500 Enterprise, and founded in the year 1996.

Industrial electrical products as the core business of People Ele. Appliance Group, People Electric owns Zhejiang, Shanghai, Nanchang , Fuzhou, Nantong and Zaozhuang six manufacturing bases, 35 wholly owned subsidiaries, 150 holding member enterprises, over 1500 cooperated processing enterprises and over 5000 sales companies.

The products are popularly sold to over 125 countries and regions, which are widely used in Pudong Airport, Beiing-Shanghai high-speed railway, Three Gorges Hydropower, Beijing Subway, Olympic venues, South North Water Transfer, Qinghai-Tibet Railway, Chang'e Lunar Exploration Project and Vietnam Taian hydropower project etc. major projects at home and abroad, which ranked among the World's Top 500 Machinery Enterprises.

Assess by the World's Brand Laboratory, the brand value reaches to RMB 101.636 bilion Yuan.

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More safety	More reliale	More efficient	More economic	More eco-friendly
Ensure the safety of life and property	Supply the power uninterruptedly	Reducing the consumption of energy and the cost, shorten the time of supply	Optimize the process of the machinery and factory, improving the comfortability of use.	Supply the energy through the renewable energy, reducing the carbon emissions

Contents

CJX2-09~95

Series AC Contactor

Application

CJX2 series AC Contactor is mainly used in the circuit of AC 50Hz or 60Hz, rated voltage up to 690V, rated current up to 95A, for the use of remotely connecting and breaking the circuit, it also can be directly combined with thermal relay into electromagnetic starter to protect the circuit that may have overloaded operations. Contactor can also be equipped with accessories such as the block type auxiliary contacts group, air delay contact, mechanical interlock mechanism, etc. to combine into delay contactor, directional contactor, and star-delta starter. It conforms to the standard IEC/EN60947-4-1.

Model No.

CJX 2 - □□ / □□

- 10: 32A and below, 3 poles+1NO auxiliary contact
- 01: 32A and below, 3 poles+1NC auxiliary contact
- 11: 40A and above, 3 poles+1NO+1NC auxiliary contacts
- 004: 4NO main contacts
- 008: 2NO+2NC main contacts

- Rated operating current
- Design No.
- AC Contactor

Normal operating condition and installation condition

3.1 Ambient temperature: +5℃~+40℃, average temperature within 24h does not exceed +35℃.
3.2 Altitude: does not exceed 2000m.
3.3 Atmospheric condition: when the highest temperature is +40℃, the relatively humidity does not exceed 50%; it can allow relatively high humidity when it is at relatively low temperature, for instance, it reaches 90% when it is at +20℃ , it should take measurement when there have condensation occurred due to the temperature variation.
3.4 Pollution grade: 3.
3.5 Installation category: III.
3.6 Installation position: the gradient of the mounting surface to the vertical surface does not exceed ± 5°
3.7 Impact and vibration: product should be installed and used at the places without obvious shake, impact and vibration.

Main technical parameter

Main technique parameter of contactor to see table 1

table 1

Model				CJX2-09	CJX2-12	CJX2-18	CJX2-25	CJX2-32	CJX2-40	CJX2-50	CJX2-65	CJX2-80	CJX2-95
Rated insulation voltage V				690									
Main contacts	Conventional heating current(≤40℃) A			20	20	32	40	50	60	80	80	125	125
	Rated current (A) when at 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
	Power of controllable 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	-	-	-
	Power of controllable three-phase squirrel cage type motor kW (when AC-3)		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	7.5	11	15	22	30	37	45	45
			660V	5.5	7.5	9	15	18.5	30	33	37	45	45
	AC-1 (≤40℃) A			20	20	32	40	50	60	80	80	125	125
	Connecting max. current A			250	250	300	450	550	800	900	1000	1100	1200
	Breaking max. current A		440V	250	250	300	450	550	800	900	1000	1100	1200
			500V	175	175	250	400	480	800	900	1000	1100	1200
			660V	85	85	120	180	200	400	500	630	640	700
	Operation frequency	Electrical life	AC-4	300	300	300	150	150	150	150	150	150	150
			AC-3	2400	2400	1200	1200	1200	1200	1200	1200	1200	600
		Mechanical life (times/h)		3600									
	Electrical life (10000 times/h)		AC-4	20	20~15	20~7	15~7	15~7	10~7	7	7~6	7~5	7~5
			AC-3	200							160		
	Mechanical life (10000 times/h)			2000								1000	
Coil	Rated control power voltage Us (V)			AC 36, 48, 110, 220, 380, 415, 440, 660									
	Pull-in voltage 50/60Hz V			(0.85~1.1)Us									
	Release voltage 50/60Hz V			(0.2~0.7)Us									
	Coil power	50Hz	Pull-in VA	70	70	70	110	110	200	200	200	200	200
			Hold VA	8	8	8	11	11	20	20	20	20	20
		60Hz	Pull-in VA	80	80	80	115	115	200	200	200	200	200
			Hold VA	8	8	8	11	11	20	20	20	20	20
			Power W	1.8~2.7	1.8~2.7	1.8~2.7	3~4	3~4	6~10	6~10	6~10	6~10	6~10
	Power factor	Connecting		0.8					0.6				
		Breaking		0.3					0.3				
	Pull-in time m s			12~22			15~24		20~26		20~35		
	Release time m s			4~12			5~19		8~12		6~20		
	Max. operating frequency			3500 times/h									
Terminal	Pieces			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 (mm²)			2.5	2.5	4	4	6	10	16 6	16 6	50 25	50 25
	Flexible wire without cold-press terminal (mm²)			4	4	6	10 6	10 6	16	25 16	25 16	50 35	50 35
	Single hard wire			4	4	6	6 -	10	10	25 -	25 -	50 -	50 -
	Weight (kg)			0.32	0.32	0.35	0.49	0.55	1.07	1.07	1.10	1.44	1.44
Suited fuse type		Model		RDT16(NT)-00									
		Rated current (A)		20	20	32	40	50	63	80	80	100	125
Auxiliary contacts				Can be added with F4, LA2-D/LA3-D type air delay contacts									

Dimensions

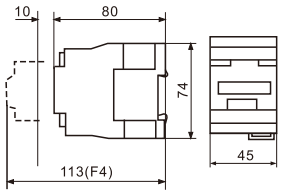


fig1 CJX2-09,12

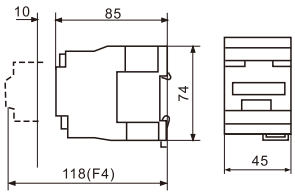


fig2 CJX2-18

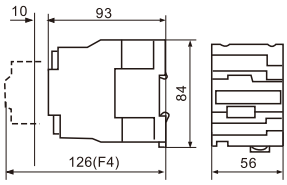


fig3 CJX2-25

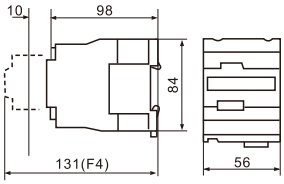


fig4 CJX2-32

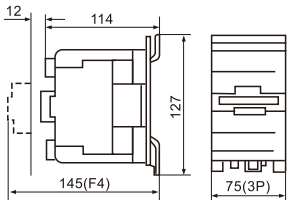


fig5 CJX2-40, 50, 65

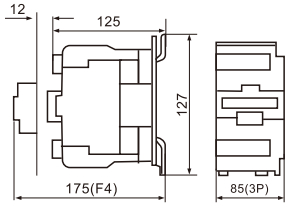
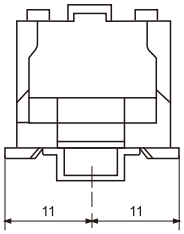
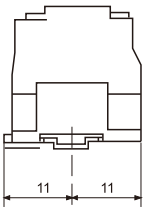


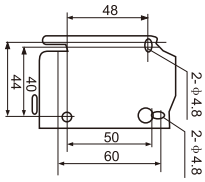
fig6 CJX2-80, 95



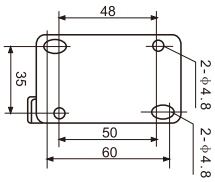
CJX2-40~95
installed by 35mm or
75mm DIN Rail



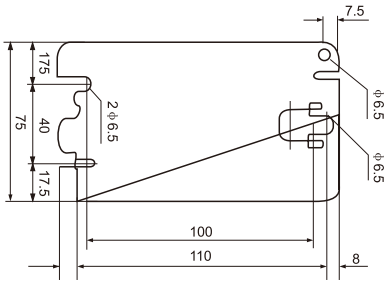
CJX2-09~32
installed by 35mm
DIN Rail



CJX2-25，32



CJX2-09~18



CJX2-40，50，65，80，95

CJX2-115~780

Series AC Contactor

Application

CJX2 series AC Contactor is mainly used in the circuit of AC 50Hz or 60Hz, rated operating voltage up to 690V, rated operating current up to 780A, for the use of remotely connecting and breaking the circuit, it also can be combined with thermal relay into electromagnetic starter to protect the circuit's overloaded operations. It conforms to the standard IEC/EN60947-4-1

Model No.

CJX 2 - □ / □

- Number of pole (3: 3 poles, 4: 4 poles)
- Rated operating current (when AC-3, 380V) (A)
- Design No.
- AC Contactor

Normal operating condition and installation condition

3.1 Ambient temperature: +5℃~+40℃, average temperature within 24h does not exceed +35℃
3.2 Altitude: does not exceed 2000m
3.3 Atmospheric condition: when the highest temperature is +40℃, the relatively humidity does not exceed 50%; it can allow relatively high humidity when it is at relatively low temperature, for instance, it reaches 90% when it is at +20℃ , it should take measurement when there have condensation occurred due to the temperature variation.
3.4 Pollution grade: 3
3.5 Installation category: III
3.6 Installation position: the gradient of the mounting surface to the vertical surface does not exceed ± 5°
3.7 Impact and vibration: product should be installed and used at the places without obvious shake, impact and vibration.

Main technical parameter

4.1 Main specification
4.1.1 Rated current: 115, 150, 185, 225, 265, 330, 400, 500, 630, 780A
4.1.2 Rated control power voltage of coil Us: AC 50Hz, 36, 48, 110, 220, 380, 415, 440, 660V (special voltage can be customized).
4.2 Main parameter and technical performance index of contactor to see table 1

AC CONTACTOR

table 1

Model				CJX2-115	CJX2-150	CJX2-185	CJX2-225	CJX2-265	CJX2-330	CJX2-400	CJX2-500	CJX2-630	CJX2-780
Main cont-acts	Conventional heating current(≤40℃) Ith A			200	200	275	275	315	380	450	630	800	1500
	Rated current (A)	AC-3	380V	115	150	185	225	265	330	400	500	630	780
	Max. power of controllable three-phase squirrel cage type motor kW	AC-3	380V	63	80	100	110	140	180	200	250	335	400
			660V	80	100	110	129	160	220	280	335	450	470
			1000V	63	75	100	132	160	200	250	300	450	450
	Operation frequency times/h (AC-3)			1200		600							
	Electrical life (100000 times/h) (AC-3)			120		100							
	Mechanical life (10000 times/h)			1000		600							
Coil	Control voltage Us			AC 36, 48, 110, 220, 380, 415, 440, 660V									
	Pull-in voltage 50/60Hz V			(0.85~1.1)Us									
	Release voltage 50/60Hz V			(0.2~0.7)Us									
	Coil power	50Hz	Pull-in VA	660	660	966	966	840	840	1380	1380	2076	2100
			Hold VA	54	54	66	66	12	12	22	24	30	50
Suited fuse (SCPD)	Model			RDT16 (NT)-1	RDT16 (NT)-1	RDT16 (NT)-2	RDT16 (NT)-2	RDT16 (NT)-2	RDT16 (NT)-3	RDT16 (NT)-3	RDT16 (NT)-3	RDT16 (NT)-3	RDT16 (NT)-4
	Rated current			200	250	315	315	400	500	500	500	630	1000
Auxiliary contacts				Can be added with F4, LA2-D/LA3-D type air delay contacts									

Dimensions

Overall dimension and installation dimension to see table 2 and fig 1~4

table 2

mm	CJX2-115		CJX2-150		CJX2-185		CJX2-225		CJX2-265		CJX2-330		CJX2-400		CJX2-500		CJX2-630	
	3P	4P	3P	4P	3P	4P	3P	4P	3P	4P	3P	4P	3P	4P	3P	4P	3P	4P
A max	167	204	167	204	170	211	170	211	202	247	218	261	215	261	235	288	310	389
B max	163	163	171	171	175	175	175	175	203	203	210	210	210	210	240	240	304	304
C max	172	172	172	172	183	183	183	183	215	215	223	223	223	223	235	235	257	257
P	37	37	40	40	40	40	48	48	48	48	48	48	48	48	55	55	80	80
S	20	20	20	20	20	20	25	25	25	25	25	25	25	25	30	30	40	40
Ø	M6	M6	M8	M8	M8	M8	M10	M10	M10	M10	M10	M10	M10	M10	M10	M10	M12	M12
f	131	131	131	131	131	131	131	131	147	147	147	147	147	147	150	150	181	181
M	147	147	150	150	154	154	172	172	178	178	181	181	181	181	208	208	264	264
H	124	124	124	124	127	127	127	127	147	147	158	158	158	158	172	172	202	202
L	107	107	107	107	113.5	113.5	113.5	113.5	141	141	145	145	145	145	146	146	155	155
X1 200~500V	10	10	10	10	10	10	10	10	10	10	10	10	15	15	15	15	20	20
X1 660~1000V	15	15	15	15	15	15	15	15	15	15	15	15	20	20	20	20	30	30
Ga	80	80	80	80	80	80	80	80	96	96	96	96	80	80	80	80	180	180
Ha	106~119		106~119		106~119		106~119		106~119		106~119		170~180		170~180		180~190	

Note: 1. f: Min. distance required by each coil.
2. X1: the arcing distance which is determined by the rated voltage and breaking capacity.

Dimensions

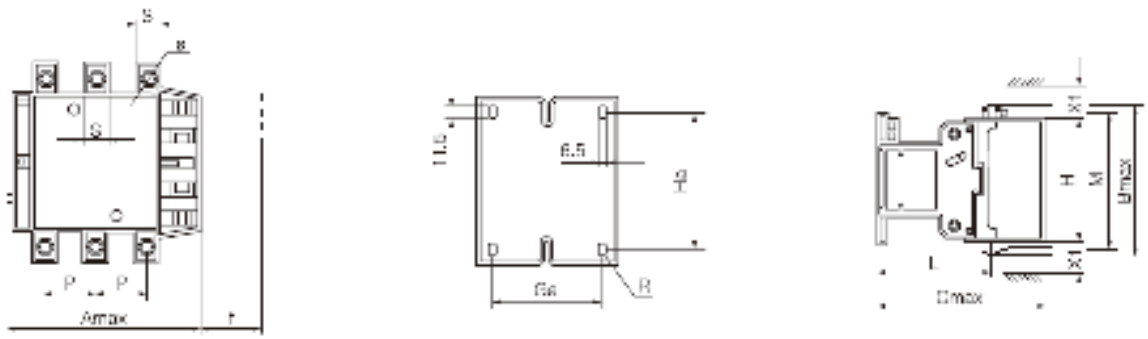


Fig1 CJX2-115~330

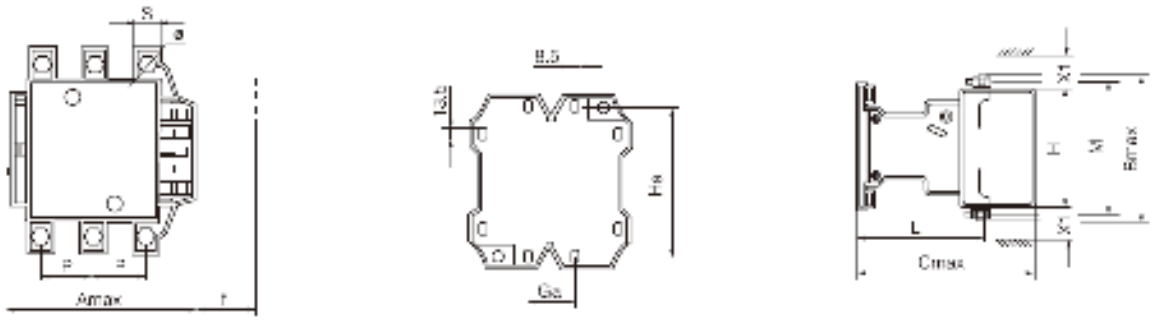


Fig2 CJX2-400~500

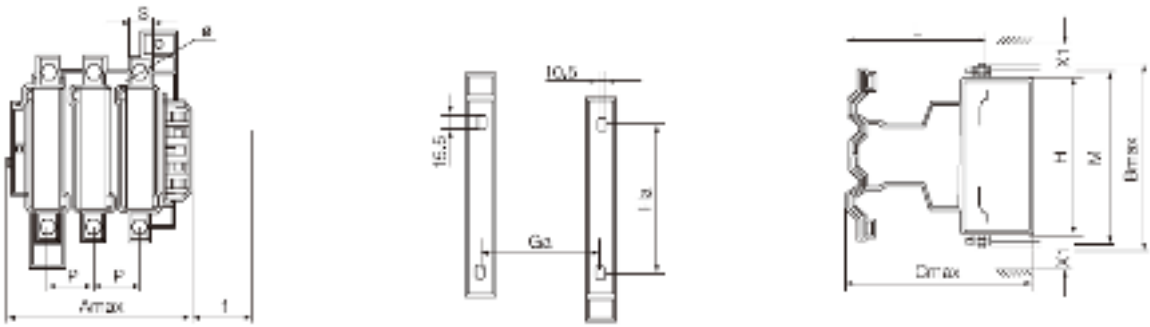


Fig 3 CJX2-630

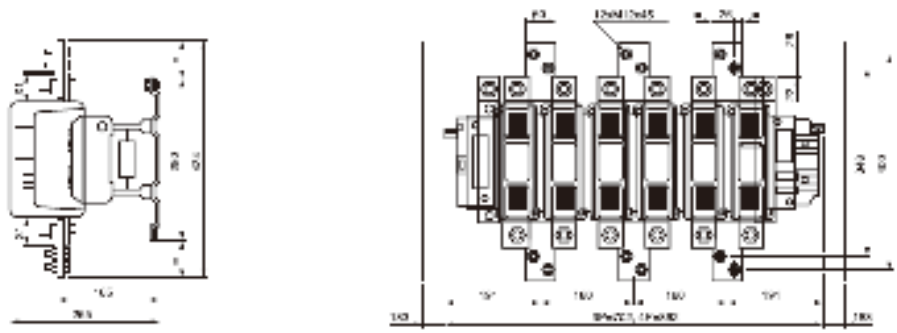


Fig 4 CJX2-780

CJX2-Z

Series DC operated AC Contactor

Application

CJX2-Z series DC operated AC contactor is mainly used in the circuit of AC 50Hz or 60Hz, rated voltage up to 690V, rated current up to 95A, for the use of remote frequently connecting and breaking the circuit, it can control the motor, also can control the electric welder, capacitor group, electric heating device, lighting equipment and other loads. It conforms to the standard IEC/EN60947-4-1

Model No.

CJX 2 - □□ / □□ Z TH

- TH: Code for Humid tropics products
- Z: DC operated
- □□: 10: 32A and below, 3 poles+1NO auxiliary contact
  01: 32A and below, 3 poles+1NC auxiliary contact
  11: 40A and above, 3 poles+1NO+1NC auxiliary contacts
  004: 4NO main contacts
  008: 2NO+2NC main contacts
- □□: Rated current (under usage category of AC-3, and rated voltage 380V) (A)
- 2: Design No.
- CJX: AC contactor

Normal operating condition and installation condition

3.1 Ambient temperature: +5℃~+40℃, average temperature within 24h does not exceed +35℃
3.2 Altitude: does not exceed 2000m
3.3 Atmospheric condition: when the highest temperature is +40℃, the relatively humidity does not exceed 50%; it can allow relatively high humidity when it is at relatively low temperature, for instance, it reaches 90% when it is at +20℃, it should take measurement when there have condensation occurred due to the temperature variation.
3.4 Pollution grade: 3
3.5 Installation category: III
3.6 Installation position: the gradient of the mounting surface to the vertical surface does not exceed ±5°
3.7 Impact and vibration: product should be installed and used at the places without obvious shake, impact and vibration.

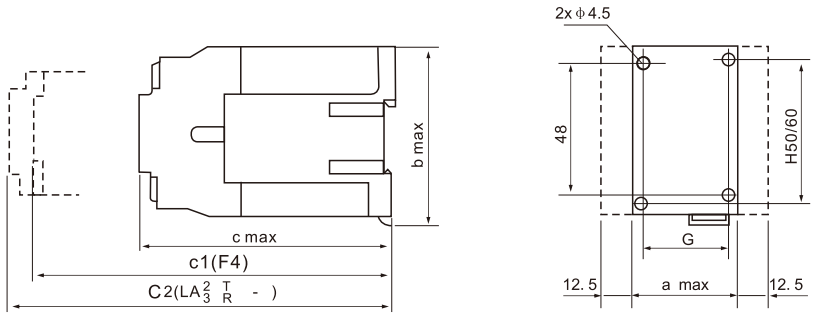
Main technical parameter

Main technique parameter of contactor to see table 1

table 1

Model				CJX2-09Z	CJX2-12Z	CJX2-18Z	CJX2-25Z	CJX2-32Z	CJX2-40Z	CJX2-50Z	CJX2-65Z	CJX2-80Z	CJX2-95Z
Main contacts	Rated current Ie A	AC-3	380V	9	12	18	25	32	40	50	65	80	95
			660V	6.6	8.9	12	18	21	34	39	42	49	49
	Rated control power (kW)	AC-3	380V	4	5.5	7.5	11	15	18.5	22	30	37	45
			660V	5.5	7.5	10	15	18.5	30	37	37	45	45
	Conventional heating current Ith (A)			25	25	32	40	50	60	80	80	125	125
	Rated voltage Ue (V)			660									
	Rated insulation voltage Ui (V)			690									
	Electrical life (10^4 times)	AC-3		100	100	100	100	80	80	60	60	60	60
	Operation frequency h^{-4}			1200	1200	1200	1200	600	600	600	600	600	600
	Electrical life (10^4 times)	AC-4		20	20	20	20	20	20	15	15	10	10
	Operation frequency h^{-4}			300	300	300	300	300	300	300	300	300	300
	Mechanical life (10^4 times)			1000	1000	1000	800	800	800	800	800	800	600
Coil	Rated control voltage Us			DC: 24V, 48V, 110V, 220V									
	Pull-in voltage			85%~110% Us									
	Release voltage			0.1~0.70 Us									
	Coil power (W) less than			11	11	11	13	13	22	22	22	22	22
Terminals	Pieces of wire			1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2
	Flexible wire			2.5 2.5	2.5 2.5	4 4	4 4	6 6	10 10	16 16	16 16	50 25	50 25
	Hard wire			4 4	4 4	6 6	6 -	10 10	10 10	25 -	25 -	50 -	50 -
Auxiliary contacts				Can be added with F4, LA2-D/LA3-D type air delay contacts									

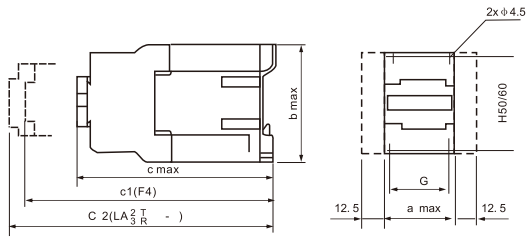
Dimensions



Note: C: CJX2-Z; C1: CJX2-Z+F4; C2: CJX2-Z+LA2-D/LA3-D -CJX2-09Z/12Z/18Z

table2

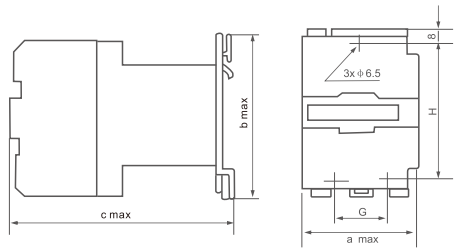
	a max	b max	c max	G	C1	C2	H
CJX2-09-12Z	45	75	115	35	145	172	50~60
CJX2-18Z	45	75	120	35	150	177	50~60



Note: C: CJX2-Z; C1: CJX2-Z+F4; C2: CJX2-Z+LA2-D/LA3-D -CJX2-25Z/32Z

table3

	a max	b max	c max	G	C1	C2	H
CJX2-25Z	58	80	130	40~50	160	187	50~60
CJX2-32Z	58	80	136	40~50	166	193	50~60

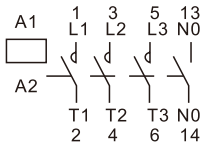


Note: C: CJX2-Z; C1: CJX2-Z+F4; C2: CJX2-Z+LA2-D/LA3-D -CJX2-40Z/50Z/65Z/80Z/95Z

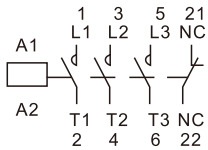
table4

	a max	b max	c max	G	H
CJX2-40/50/65Z	79	128	172	40	50~60
CJX2-80/95Z	86	128	182	40	50~60

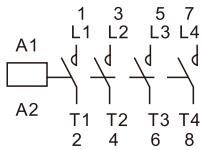
Wiring diagram



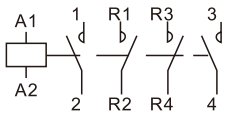
CJX2-0910Z~3210Z



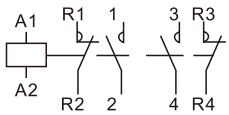
CJX2-0901Z~3201Z



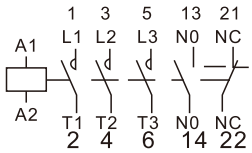
CJX2-09004Z~32004Z



CJX2-09008Z~25008Z



CJX2-40008Z~95008Z



CJX2-4011Z~9511Z

CJX2-D

Series AC Contactor

Application

CJX2-D series AC Contactor is mainly used in the circuit of AC 50Hz or 60Hz, rated voltage up to 690V, rated current up to 620A, for the use of remotely connecting and breaking the circuit, it also can be directly combined with thermal relay into electromagnetic starter to protect the circuit that may have overloaded operations. Contactor can also be equipped with accessories such as the block type auxiliary contacts group, air delay contact, mechanical interlock mechanism, etc. to combine into delay contactor, directional contactor, and star-delta starter. It conforms to the standard IEC/EN60947-4-1.

Model No.

CJX 2-D □□

- Rated operating current
- Design No.
- AC Contactor

Normal operating condition and installation condition

3.1 Ambient temperature: +5℃~+40℃, average temperature within 24h does not exceed +35℃
3.2 Altitude: does not exceed 2000m
3.3 Atmospheric condition: when the highest temperature is +40℃, the relatively humidity does not exceed 50%; it can allow relatively high humidity when it is at relatively low temperature, for instance, it reaches 90% when it is at +20℃ , it should take measurement when there have condensation occurred due to the temperature variation.
3.4 Pollution grade: 3
3.5 Installation category: III
3.6 Installation position: the gradient of the mounting surface to the vertical surface does not exceed ± 5°
3.7 Impact and vibration: product should be installed and used at the places without obvious shake, impact and vibration.

Main technical parameter

table 1

Model			CJX2-D09	CJX2-D12	CJX2-D18	CJX2-D25	CJX2-D32	CJX2-D38	CJX2-D40	CJX2-D50	CJX2-D65	CJX2-D80	CJX2-D95
Rated Insulation voltage V			690										
Conventional heating current Ith(≤40℃) A			20	32	40	50	50	60	80	80	80	125	125
Rated current Ie (A)		AC-3	9	12	18	25	32	38	40	50	65	80	95
Power of controllable three-phase squirrel cage type motor (kW) (AC-3)		220V	2.2	3	4	5.5	7.5	9	11	15	18.5	22	25
		380V	4	5.5	7.5	11	15	18.5	18.8	22	30	45	45
		660V	5.5	7.5	10	15	18.8	18.5	30	33	37	45	45
Control voltage of coil Us (V)			AC 36, 48, 110, 220, 380, 415, 440, 660V										
Pull-in voltage 50/60Hz V			(0.85~1.1)Us										
Release voltage 50/60Hz V			(0.2~0.7)Us										
Suited fuse (SCPD)	Model		RDT16(NT)-00										
	Rated current (A)		20	20	32	40	50	63	63	80	80	100	125
Auxiliary contacts			3P+1NO+1NC, Can be added with F4, LA2-D/LA3-D type air delay contacts										

table 2

Model			CJX2-D115	CJX2-D150	CJX2-D170	CJX2-D205	CJX2-D245	CJX2-D300	CJX2-D410	CJX2-D475	CJX2-D620
Rated Insulation voltage V			1000								
Conventional heating current Ith(≤40℃) A			200	200	200	275	275	380	450	580	800
Rated current Ie (A)	380V	AC-3	115	150	170	205	245	300	410	475	620
		AC-4	50	65	70	80	100	124	150	185	225
	660V	AC-3	86	107	118	130	170	225	235	290	360
		AC-4	25	32	35	40	47	60	72	85	100
Power of controllable three-phase squirrel cage type motor (kW) (AC-3)		380V	55	75	85	90	110	160	200	250	335
		660V	80	90	100	110	129	220	280	330	450
Operation frequency (times/h)	Electrical life	AC-3	600	300	300	600	600	600	300	300	300
		AC-4	300	300	300	150	150	150	150	150	150
	Mechanical life		2400	2400	2400	2400	2400	2400	1200	1200	1200
Electrical life (10000 times/h)		AC-3	40	40	40	50	50	50	30	30	20
		AC-4	2	2	2	10	10	10	8	8	5
Mechanical life (10000 times/h)			300	300	300	300	300	300	100	100	100
Control voltage of coil Us (V)			AC 36, 48, 110, 220, 380, 415, 440, 660								
Pull-in voltage 50/60Hz V			(0.85~1.1)Us								
Release voltage 50/60Hz V			(0.2~0.7)Us								
Average power consumption (VA)	50Hz	Pull-in	300	300	300	800	800	1200	1200	1250	1250
		Hold	22	22	22	55	55	13	20	24	22
Suited fuse type	Model		RDT16 (NT) -1	RDT16 (NT) -1	RDT16 (NT) -2	RDT16 (NT) -2	RDT16 (NT) -2	RDT16 (NT) -3	RDT16 (NT) -3	RDT16 (NT) -3	RDT16 (NT) -3
	Rated current (A)		160	200	250	315	315	400	500	630	630
Auxiliary contacts			Can be added with F4, LA2-D/LA3-D type air delay contacts								

Dimensions

6.1 Overall dimensions and installation dimensions to see fig 1~6 and table 3~6

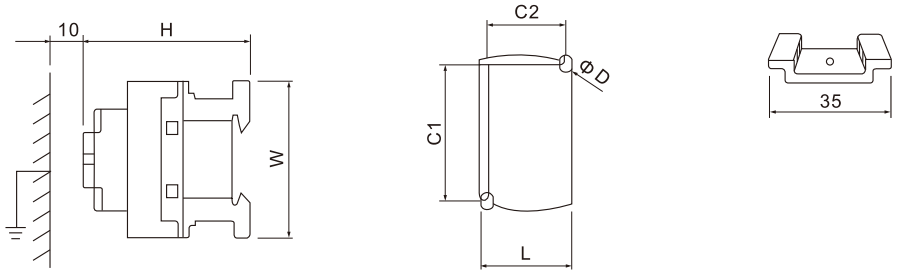


Fig 1 CJX2-D09~38

table3

	L	W	H	C1	C2	ØD
CJX2-D09~18	45	77	86	50~60	35	4.5
CJX2-D25~38	45	88	92	50~60	35	4.5

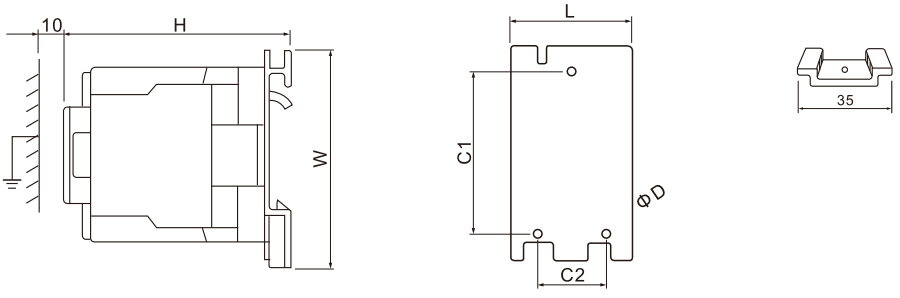


Fig 2 CJX2-D40~95

table4

	L	W	H	C1	C2	ØD
CJX2-D40~65	75	127	119	100~110	40	6.5
CJX2-D80~95	85	127	130	100~110	40	6.5

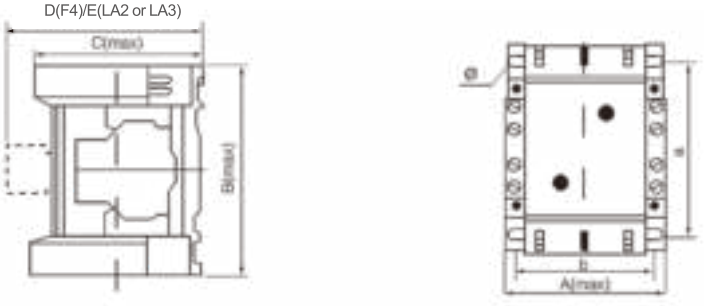


Fig 3 CJX2-D115~170

table5

	a max	b max	cmax	dmax	e max	f max	a	b	ø
CJX2-D115~170	120	162	133	155	173	-	130	95~110	6.5

Fig 4 CJX2-D205~300

Fig 5 CJX2-D410~475

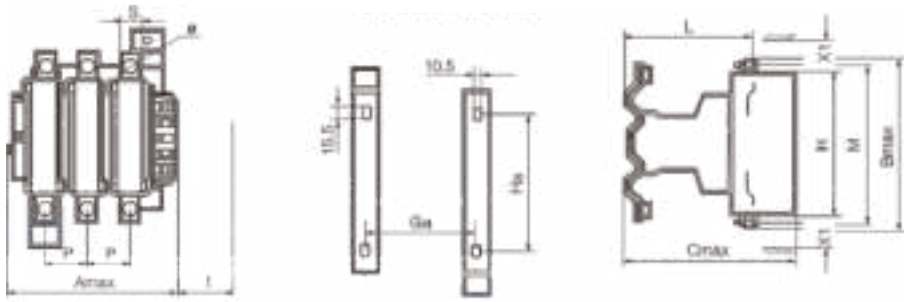


Fig 6 CJX2-D620

table6

Model	Amax	Bmax	Cmax	P	S	Ø	f	M	H	L	X1≤500V	X1>500V	Ga	Ha
CJX2-D205	170	175	183	40	20	M8	131	154	127	113.5	10	15	80	106~119
CJX2-D245	170	175	183	48	25	M10	131	172	127	113.5	10	15	80	106~119
CJX2-D300	218	210	223	48	25	M10	147	181	158	145	10	15	96	106~119
CJX2-D410	218	210	223	48	25	M10	147	181	158	145	15	20	80	170~180
CJX2-D475	235	240	235	55	30	M10	150	208	172	146	15	20	80	170~180
CJX2-D620	310	304	257	80	40	M12	181	264	202	155	20	30	180	180~190

Note: 1. f: Min. distance required by each coil.
2. X1: the arcing distance which is determined by the rated voltage and breaking capacity.

CJX2-K(PLC1-K)

Series AC Contactor

Application

CJX2-K series AC contactor is mainly used for AC 50Hz or 60Hz, rated working voltage to 690V, rated current circuit to 9A, for the use of remotely connecting and breaking the circuit. It also can be combined with suitable thermal relay into electromagnetic starter to protect the circuit that may have overloaded operations. It conforms to the standard IEC/EN60947-4-1.

Table 1

			CJX2-K-06	CJX2-K-08
Rated working current(A)	380V		6	9
AC-3/AC-4	660/690V		3.8	5
Rated insulation voltage(V)			690	690
Conventional heating current Ith (A)			20	20
Controllable three-phase cage	220V		1.5	2.2
Motor power(kW)	380V		2.2	4
AC-3	660V/690V		3	4
Operating frequency(h^{-1})	Electrical life	AC-3	12000	12000
		AC-4	300	300
	Mechanical life		3600	3600
Electrical life (10000times)		AC-3	120	120
		AC-4	2.5	2.5
Mechanical life (10000times)			1000	1000
Fuse Specification			RDT16-16	RDT16-20
Coil power(VA)	Pull in		30	30
	Hold		4.5	4.5

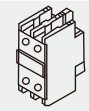
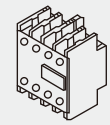
Structure characteristics

1.The utility model has the advantages of advanced structure, small size, light weight, low power consumption, long operation life, safety and reliability, high technical performance etc..
2.It can be assembled by block type, equipped with auxiliary contact group, thermal relay and other accessories, combined into a variety of derivative products.
3.The contactor not only can be installed by screw , but also can be installed with 35mm standard rail.
4.The contact direction of the iron core and the contact of the contactor is parallel to the mounting surface.

Auxiliary contact blocks

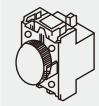
Main technical parameter of F4 (LA1-D) type auxiliary contacts to see table 1

table 1

Model	Group of contact	Rated insulation voltage V	Conventional heating current A	Electrical life (10^6 times)	Mechanical life (10^4 times)	Max. operating frequency (t/s)	Connectable min. load	Sketch picture
F4-11	1NO+1NC	690	10	0.5~5	1000	3	6V 10mA	
F4-20	2NO							
F4-02	2NC							
F4-22	2NO+2NC							
F4-40	4NO							
F4-04	4NC							
F4-31	3NO+1NC							
F4-13	1NO+3NC							

Main technical parameter of LA2-D/LA3-D type air delay contacts to see table 3

table 2

Model	Rated insulation voltage V	Conventional heating current A	Characteristics of delay	Scope of delay (s)	Delay repeated error	Delay stability error	Temperature error (%℃)	Group of contacts	Electrical life (times)	Mechanical life	Max. operation frequency (times/s)	Connectable min. load	Sketch picture
LA2-D20	690	10	Delay when power on	0.1~3	±5	±30*	±25	NO+NC	$0.5\sim5\times10^6$	2.5×10^6	3	6V 10mA	
LA2-D22				0.1~30									
LA2-D24				10~180									
LA3-D20			Delay when power off	0.1~3									
LA3-D22				0.1~30									
LA3-D24				10~180									

Main technical parameter of LA8 type auxiliary contacts to see table 2

table 3

Model	Group of contact	Rated insulation voltage V	Conventional heating current A	Electrical life (10^6 times)	Mechanical life (10^4 times)	Max. operating frequency (t/s)	Connectable min. load
LA8-11	1NO+1NC	690	10	0.5~5	1000	3	6V 10mA
LA8-20	2NO						
LA8-02	2NC						

CJX1

Series AC Contactor

Application

CJX1 Series AC contactor is suitable for the circuit of AC 50Hz or 60Hz, rated operating voltage up to 690V. The rated current up to 400A when the usage category of AC-3, and rated operating voltage is 380V, for remotely connecting and breaking the circuit, and it can be combined with JRS2 (3UA) into electromagnet starter to protect the circuit over load produced by operation.
This product conforms to:IEC/EN60947-4-1 standards.

Model No.

CJ X 1 - □ / □

- Quantity and combination of auxiliary contact (table 1)
- Specification code (Rated operating current when the usage category is AC-3, and rated operating voltage is 380V)
- Design No.
- Miniature
- AC Contactor

table 1

Code for auxiliary contact		22	33	44
Quantity of contact	NO	2	3	4
	NC	2	3	4

Note: 1. The default combination of auxiliary contact is “2NO 2NC”
2.Auxiliary contact for above 32A can be: “3 NO 3NC” or “4NO 4NC”

Normal operating condition and installation condition

3.1 Ambient temperature: +5℃~+40℃, average temperature within 24h does not exceed +35℃
3.2 Altitude: does not exceed 2000m
3.3 Atmospheric condition: when the highest temperature is +40℃, the relatively humidity does not exceed 50%; it can allow relatively high humidity when it is at relatively low temperature, for instance, it reaches 90% when it is at +20℃ , it should take measurement when there have condensation occurred due to the temperature variation.
3.4 Pollution grade: 3
3.5 Installation category: III
3.6 Installation position: the gradient of the mounting surface to the vertical surface does not exceed ± 5°
3.7 Impact and vibration: product should be installed and used at the places without obvious shake, impact and vibration.

Main technical parameter

Main technique parameter of contactor to see table 1

table 2

Model			CJX1-9	CJX1-12	CJX1-16	CJX1-22	CJX1-32	CJX1-45	CJX1-63	CJX1-75	CJX1-85	CJX1-110	CJX1-140	CJX1-170	CJX1-205	CJX1-250	CJX1-300	CJX1-400
Rated insulation voltage Ui V			690															
Rated operating current Ie (A)	AC-3	380V	9	12	16	22	32	45	63	75	85	110	140	170	205	250	300	400
		660V	7.2	9.5	13.5	13.5	18	45	63	75	75	110	110	170	170	200	250	320
	AC-4	380V	3.3	4.3	7.7	8.5	12	24	28	34	42	54	68	75	96	110	125	150
		660V	1.4	1.9	3.5	4	7.5	12	14	17	21	27	35	42	67	95	110	115
Control power Pe (kW)	AC-3	380V	4	5.5	7.5	11	15	22	30	37	45	55	75	90	110	132	160	200
		660V	5.5	7.5	11	11	15	37	55	55	55	90	90	160	160	185	220	315
	AC-4	380V	1.5	2.5	4	4	5.5	11	15	18.5	22	30	37	37	45	55	55	75
		660V	1.1	1.5	3	4	7.5	11	11	15	18.5	22	30	37	55	75	90	110
Conventional thermal current≥Ith		A	20		30		45	70		90		150		170	205	250	300	400
Rated operation frequency times/h		AC-3	1200				600							300				
		AC-4	300														150	
Mechanical life (10000 times)			1000					800		600								
Electrical life (10000 times)		AC-3	100					80		60								
		AC-4	20					15		10								
Suited fuse specification (RDT16) A			16	20	25	32	50	80	100	125	160	200	200	250	250	300	400	500

4.2.Rated control power voltage Us of contactor when AC 50/60Hz: 36/42, 48/58, 110/132, 127/152, 220/264, 380/456

4.3.The coil of contactor can reliably pull-in when it is at 85%~110% of rated control power voltage, and reliably release at 20%~75% of rated control power voltage.

4.4.Rated insulation voltage of auxiliary circuit (Ui) is 380V, conventional thermal current (Ith) is 10A,

table 3

Usage category	Rated operating voltage Ue V	Rated operating current Ie A	Rated control power	
			AC VA	DC W
AC-15	36	10	360	—
	110	3.2		
	220	1.64		
	380	0.95		
DC-13	48	0.69	—	33
	110	0.3		
	220	0.15		

Dimensions

Overall and installation dimension for CJX1-9~32 to see fig 1 and table 4

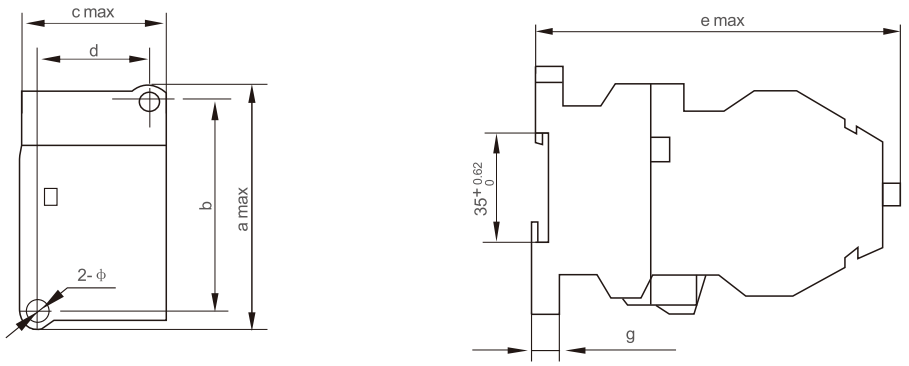


fig 1 Overall and installation dimension for CJX1-9~32

table 4

Model	a max	b	c max	d	e max	g	ϕ
CJX1-9/12	79	60±0.60	46	35±0.50	106	8	$4.8^{+0.48}_{0}$
CJX1-16/22	89	75±0.60	46	35±0.50	116	8	
CJX1-32	90	75±0.60	74	35±0.50	109	8	$5^{+0.48}_{0}$

Overall and installation dimension for CJX1-45~140 to see fig 2 and table 5

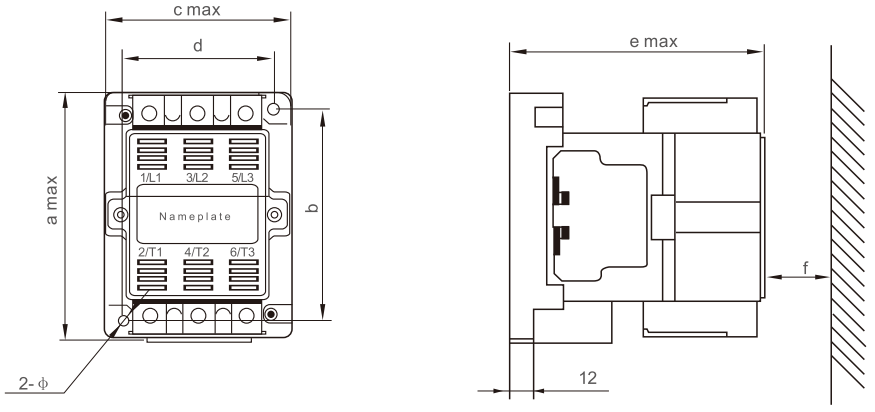


fig 2 Overall and installation dimension for CJX1-45~140

table 5

Model	a max	b	c max	d	e max	f	ϕ
CJX1-45/63	120	100±0.70	92	70±0.60	125	20	$5^{+0.48}_{0}$
CJX1-75/85	135	110±0.70	105	80±0.60	145	20	$5.5^{+0.48}_{0}$
CJX1-110/140	158	130±0.80	125	100±0.70	155	20	$6.5^{+0.48}_{0}$

Overall and installation dimension for CJX1-170~475

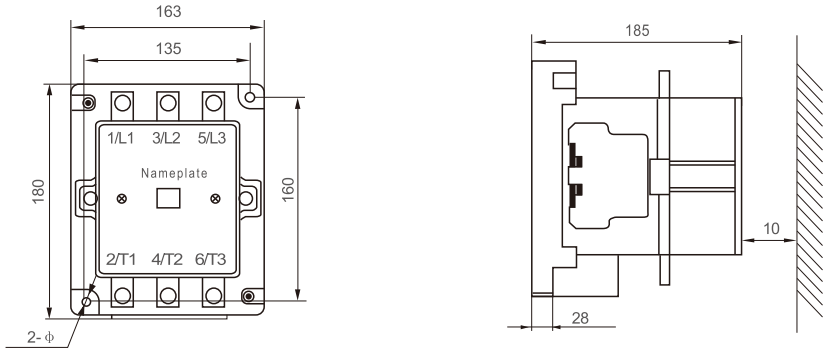


fig 3 Overall and installation dimension for CJX1-170~205

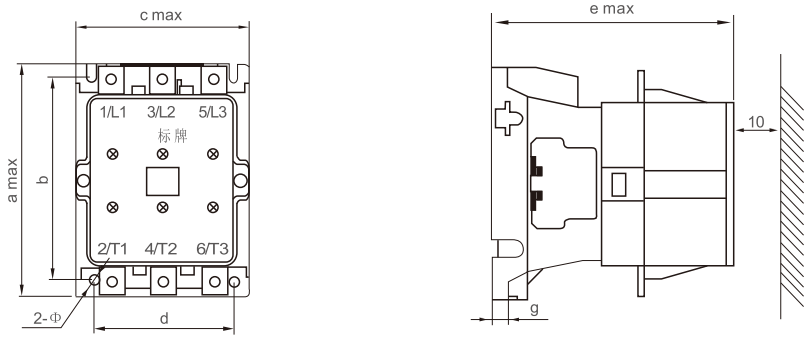


fig 4 Overall and installation dimension for CJX1-250~475

table 6

Model	a max	b	c max	d	e max	g	ϕ
CJX1-170/205	180	160	163	135	185	28	8
CJX1-250/300	200	145	172	120	198	30.5	10.5
CJX1-400/475	200	160	187	130	222	39	10.5

RDC5

Series AC Contactor

Application

RDC5 series AC Contactor is mainly used in the circuit of AC 50Hz or 60Hz, rated voltage up to 690V, rated current up to 95A, for the use of remotely connecting and breaking the circuit, it also can be directly combined with thermal relay into electromagnetic starter to protect the circuit that may have overloaded operations. Contactor can also be equipped with accessories such as the block type auxiliary contacts group, air delay contact, mechanical interlock mechanism, etc. to combine into delay contactor, directional contactor, and star-delta starter. It conforms to the standard IEC/EN60947-4-1.

Model No.

RDC5 □□ / □□

- 10: 32A and below, 3 poles+1NO auxiliary contact
- 01: 32A and below, 3 poles+1NC auxiliary contact
- 11: 40A and above, 3 poles+1NO+1NC auxiliary contacts
- 004: 25A and below, 4NO main contacts
- 008: 25A and below, 2NO+2NC main contacts

- Rated operating current
- AC Contactor

Normal operating condition and installation condition

3.1 Ambient temperature: +5℃~+40℃, average temperature within 24h does not exceed +35℃
3.2 Altitude: does not exceed 2000m
3.3 Atmospheric condition: when the highest temperature is +40℃, the relatively humidity does not exceed 50%; it can allow relatively high humidity when it is at relatively low temperature, for instance, it reaches 90% when it is at +20℃ , it should take measurement when there have condensation occurred due to the temperature variation.
3.4 Pollution grade: 3
3.5 Installation category: III
3.6 Installation position: the gradient of the mounting surface to the vertical surface does not exceed ±5°
3.7 Impact and vibration: product should be installed and used at the places without obvious shake, impact and vibration.

Main technical parameter

Main technique parameter of contactor to see table 1

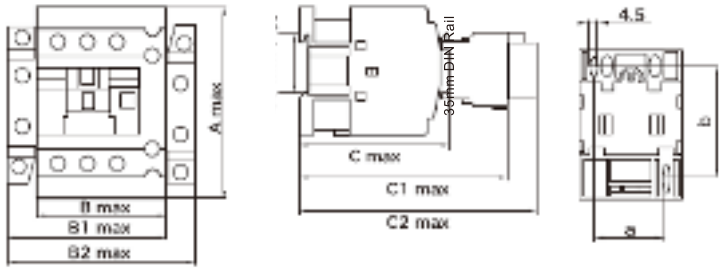
table 1

Model			RDC5-06	RDC5-09	RDC5-12	RDC5-18	RDC5-25	RDC5-32	RDC5-38	RDC5-40	RDC5-50	RDC5-65	RDC5-80	RDC5-95
Number of pole			3 poles											
Rated insulation Voltage (Ui)V			690											
Rated operating voltage (Ue) V			380/400, 660/690											
Conventional heating current (Ith) A			16	20	20	25	32	40	40	50	60	80	110	110
Rated current (Ie) A	AC-3	380/400V	6	9	12	18	25	32	38	40	50	65	80	95
		660/690V	3.8	6.6	8.9	12	18	22	22	34	39	42	49	49
	AC-4	380/400V	2.6	3.5	5	7.7	8.5	12	14	18.5	24	28	37	44
		660/690V	1	1.5	2	3.8	4.4	7.5	8.9	9	12	14	17.3	21.3
Rated Power (Pe) kW	AC-3	380/400V	2.2	4	5.5	7.5	11	15	18.5	18.5	22	30	37	45
		660/690V	3	5.5	7.5	10	15	18.8	18.5	30	33	37	45	45
	AC-4	380/400V	1.1	1.5	2.2	3.3	4	5.4	5.5	7.5	11	15	18.5	22
		660/690V	0.75	1.1	1.5	3	3.7	5.5	6	7.5	10	11	15	18.5
Mechanical life (10000 times/h)			1200				1000			900			650	
Electrical life	AC-3 (10000 times/h)		110					90					65	
	AC-4 (10000 times/h)		22					22		17			11	
Operation frequency	AC-3 (times/h)		1200					600						
	AC-4 (times/h)		300											
Coil	Rated control voltage Us (V)		AC 24, 36, 48, 110, 127, 220/230, 240, 380/400, 415, 440											
	Pull-in voltage 50/60Hz V		(0.85~1.1)Us											
	Release voltage 50/60Hz V		(0.2~0.7)Us											
	Coil power consum-ption	Pull-in VA	50	60			70			200			200	
		Hold VA	6~9	6~9.5			6~9.5			15~20			15~20	
		Power W	1~3	1~3			1~3			6~10			6~10	

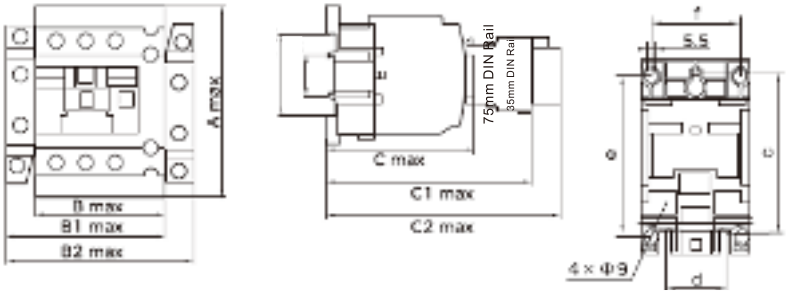
Terminals																										
	Pieces mm²	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
	Flexible wire with terminal mm²	4	2.5	4	2.5	4	2.5	4	2.5	6	4	6	4	6	4	25	10	25	10	25	10	50	16	50	16
	Flexible wire without terminal mm²	4	4	4	4	4	4	4	4	6	6	6	6	6	6	25	16	25	16	25	16	50	25	50	25
	Hard wire mm²	4	4	4	4	4	4	6	6	6	6	10	6	10	6	25	10	25	10	25	10	50	25	50	25

Tightening torque	(N•m)	1.2				1.8			5			9		
Suited fuse type	Model	RDT16 (NT)-00												
	Rated current (A)	16	20	20	32	40	50	63	63	80	80	100	125	
Suited thermal relay		RDR5-25	RDR5-25	RDR5-25	RDR5-25	RDR5-25	RDR5-25 RDR5-36	RDR5-25 RDR5-36	RDR5-93	RDR5-93	RDR5-93	RDR5-93	RDR5-93	
Auxiliary contacts		Can be added with F4, LA8 auxiliary contacts, LA2-D/LA3-D type air delay contacts												

Dimensions



RDC5-06~38



RDC5-40~95

table2

Model	Amax	Bmax	B1max	B2max	Cmax	C1max	C2max
RDC5-06, 09, 12, 18	74.5	45.5	58	71	82.5	114.5	139.5
RDC5-25, 32, 38	83	56.5	69	82	97	129	154
RDC5-40, 50, 65	127.5	74.5	88	101	117	148.5	173.5
RDC5-80, 95	127.5	85.5	99	112	125.5	157	182
Note:	B1max=contactor+LA8;		B2max=contactor+2× LA8;		C1max=contactor+F4;		C2max=contactor+LA2(3)D

table3

Model	a	b	c	d	e	f
RDC5-06, 09, 12, 18	35	50/60	-	-	-	-
RDC5-25, 32, 38	40	50/60	-	-	-	-
RDC5-40, 50, 65	-	-	105	40	100/110	59
RDC5-80, 95	-	-	105	40	100/110	67

RDC19B(CJ19)

Series Switch-over Capacitor Contactor

Application

RDC19B (CJ19) series switch-over capacitor contactor is suitable for the power circuit of AC50/60Hz, rated power voltage up to 660V and below, for the use of low voltage reactive power compensation equipment added-in or remove the low voltage shunt capacitor. This contactor is equipped with a surge suppression device, and it can effectively restrain the impact of closing inrush current on capacitor and reduce the breaking instantaneous overload voltage without adding the current limiting reactor. It conforms to the standard IEC/EN60947-4-1

Model No.

RD C 19 - □ / □□ B

- B — Derived code
- □□ — NC auxiliary contact
- □ — NO auxiliary contact
- □ — Rated current
- 19 — Design No.
- C — Switch-over capacitor contactor
- RD — Enterprise code

Normal operating condition and installation condition

3.1 Ambient temperature: +5℃~+40℃, average temperature within 24h does not exceed +35℃
3.2 Altitude: does not exceed 2000m
3.3 Atmospheric condition: when the highest temperature is +40℃, the relatively humidity does not exceed 50%; it can allow relatively high humidity when it is at relatively low temperature, for instance, it reaches 90% when it is at +20℃ , it should take measurement when there have condensation occurred due to the temperature variation.
3.4 Pollution grade: 3
3.5 Installation category: III
3.6 Installation position: the gradient of the mounting surface to the vertical surface does not exceed ± 5°
3.7 Impact and vibration: product should be installed and used at the places without obvious shake, impact and vibration.

Wiring principle

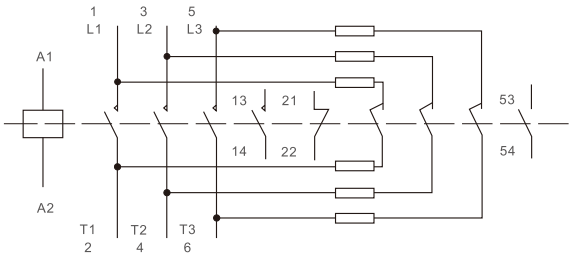


Fig 1 L1~L3 to be connected with the power end, T1~T3 to be connected with the load end.

Main technical parameter

table 1

Model		RDC19-25/□□B	RDC19-32/□□B	RDC19-43/□□B	RDC19-63/□□B	RDC19-80/□□B	RDC19-95/□□B
Controllable capacitor capacity Kvar	220V	6	9	10	15	22	22
	380V	12	18	20	30	40	50
Rated insulation voltage V		660					
Rated voltage V		220/380					
Conventional heating current A		25	32	43	63	87	108
AC-6b Rated current A		17	23	29	43	58	72
Auxi. Wire/Rated current of capacitor A		20Ie					
Control voltage V		48, 110, 127, 220, 380					
Conventional heating current of auxiliary contact A		6					
Operation frequency (times/h)		120					
Electrical life (10000 times)		1					
Mechanical life (10000 times)		10					
Tightening torque of terminal (N•m)		0.8	1.2	1.2	6.0	10.0	10.0

Note: the terminal should be tightened every 1~3 months.

Dimensions

Contactor can be installed by screw, and it also can be installed by DIN rail. Overall and installation dimension of RDC19B to see fig 2 and table 2

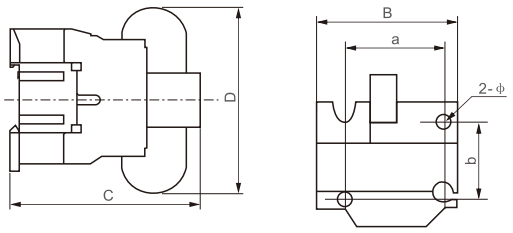


Fig 2 Overall and installation dimension of RDC19B-25/32/43

table 2

Model	Overall dimension				Installation dimension			
	A	B	C	D	a	b	Ø	Din rail
RDC19-25/□□B	84	56	130	140	40	50/60	4.5	35
RDC19-32/□□B	87	58	136	140	40	50/60	4.5	35
RDC19-43/□□B	87	58	136	140	40	50/60	4.5	35
RDC19-63/□□B	127	79	150	180	40	100/110	6.5	35 or 75
RDC19-80/□□B	127	85	160	200	40	100/110	6.5	
RDC19-95/□□B	127	85	160	200	40	100/110	6.5	

Auxiliary contacts

Code for the auxiliary contacts to see table 3

Specification	Code for auxiliary contact	Number of auxiliary contacts		Marking	
		NO	NC		
25A, 32A, 43A	20	2	0	20E	13,14;23,24
	02	0	2	02E	11,12;21,22
	11	1	1	11E	13,14;21,22
63A, 80A, 95A	21	2	1	21E	13,14;21,22;33,34
	12	1	2	12E	13,14;21,22;31,32

The coil of RDC19B can be reliably pull-in when it is at 80%~110% of control power voltage (Us), and can be reliably released when it is at 20%~70% of control power voltage (Us)

CJX2-N

Mechanical Interlocking Contactor

Application

CJX2-N mechanical interlocking contactor is suitable for using in the circuits up to the rated voltage 660V, for controlling the motor. This mechanical interlocking device ensures contact changeover of the two convertible contactors. It conforms to IEC60947-4-1.

Main technical parameters

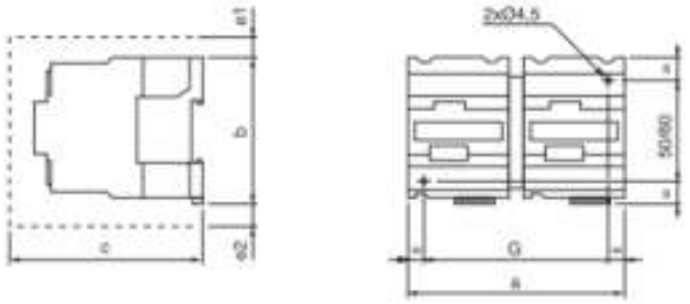
Table 1

Type	Rated current AC-3(A)	controlled power(KW)				
		220V	380V	415V	440V	660V
CJX2-09N	9	2.2	4	4	4	5.5
CJX2-12N	12	5.5	5.5	5.5	5.5	7.5
CJX2-18N	18	7.5	7.5	9	9	10
CJX2-25N	25	5.5	11	11	11	15
CJX2-32N	32	7.5	15	15	15	18.5
CJX2-40N	40	18.5	18.5	22	22	30
CJX2-50N	50	15	22	25	25	33
CJX2-65N	63	18.5	30	37	37	37
CJX2-80N	80	22	37	45	45	45
CJX2-95N	95	22	45	45	45	41
CJX2-115N	115	30	55	59	59	80
CJX2-150N	150	40	75	80	80	100
CJX2-170N	170	55	90	100	100	110
CJX2-205N	205	63	110	110	110	129
CJX2-245N	245	75	132	132	132	160
CJX2-300N	300	100	160	200	200	220
CJX2-410N	410	110	220	250	250	280
CJX2-475N	475	147	265	280	280	355
CJX2-620N	620	200	335	400	400	450

Table 2

Type	Number of poles	Rated current AC-3(A)	Rated current In/A	controlled power(KW)	
				220V	380V
CJX2-F115N	3P	115	250	200	55
CJX2-F1154N	4P	115	250	200	55
CJX2-F150N	3P	150	355	250	75
CJX2-F1504N	4P	150	355	250	75
CJX2-F185N	3P	185	425	275	90
CJX2-F1854N	4P	185	425	275	90
CJX2-F225N	3P	225	500	315	110
CJX2-F2254N	4P	225	500	315	110
CJX2-F265N	3P	265	630	350	132
CJX2-F2654N	4P	265	630	350	132
CJX2-F330N	3P	330	800	400	160
CJX2-F3304N	4P	330	800	400	160
CJX2-F400N	3P	400	800	500	200
CJX2-F4004N	4P	400	800	500	200
CJX2-F500N	3P	500	1000	700	250
CJX2-F5004N	4P	500	1000	700	250
CJX2-F630N	3P	630	1250	1000	335
CJX2-F6304N	4P	630	1250	1000	335
CJX2-F800N	3P	800	1250	1000	400

Dimensions

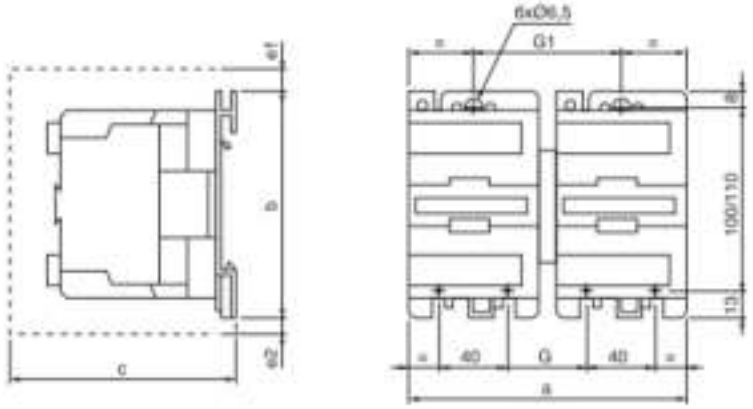


CJX2-09N~38N

Table 3

CJX2-N	a	b	c	e1(3P)	e2(4P)	G
09N,12N	105	74	84	7	6	95
18N	106	74	92	8	-	95
25N	127	84	99	8	7	111
32N, 38N	127	84	117	10	-	111

c.e1 and e2 including cabing

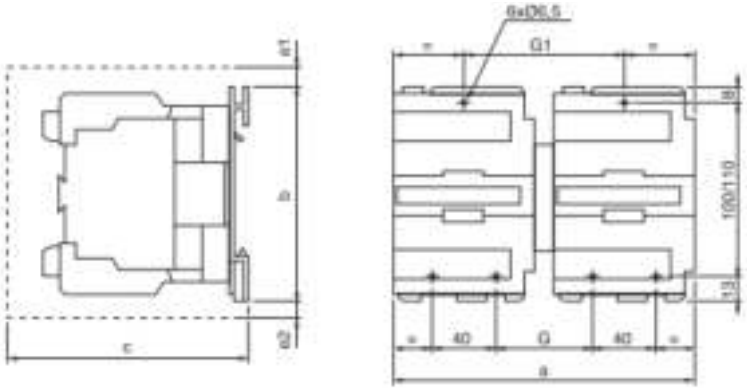


CJX2-40N~65N

Table 4

CJX2-N(3-pole)	a	b	c	e1	GG	1
40N,50N,55N	165	127	142	5	50	90
CJX2-N(4-pole)	a	b	c	e1	GG	1
40N,65N	182	127	133	11	57	97

c.e1 and e2 including cabing



CJX2-80N~95N

Table 5

CJX2-N(3-pole)	a	b	c	e1	GG	1
80N,95N	182	127	158	13	57	90
CJX2-N(4-pole)	a	b	c	e1	GG	1
80N	207	127	158	20	71	11

c.e1 and e2 including cabing

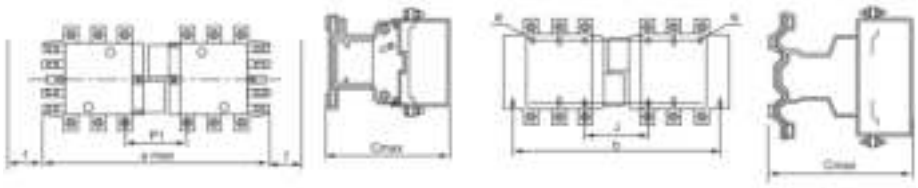
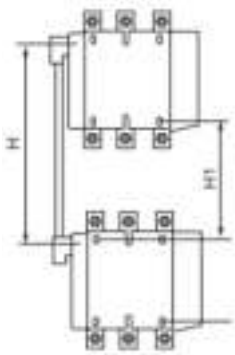
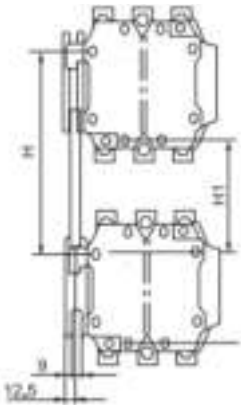


Table 6

CJX2-N(3-pole)	Amax	J	P1	f	b	φ	Cmax
CJX2-F115N	350	71	77	131	330	6.5	182
CJX2-F1154N	425	105	77	131	370	6.5	182
CJX2-F150N	350	71	71	131	330	6.5	182
CJX2-F1504N	425	105	71	131	370	6.5	182
CJX2-F185N	350	78	71	130	330	6.5	193
CJX2-F1854N	430	114	70	130	370	6.5	193
CJX2-F1225N	350	78	55	130	330	6.5	193
CJX2-F2254N	430	118	54	130	370	6.5	193
CJX2-F265N	450	109	96	147	428	6.5	225
CJX2-F2654N	546	157	100	147	485	6.5	225
CJX2-F330N	450	124	112	147	428	6.5	232.5
CJX2-F3304N	546	166	107	147	485	6.5	232.5
CJX2-F400N	485	157	110	146	460	8.5	232.5
CJX2-F4004N	485	157	107	146	485	8.5	232.5
CJX2-F500N	485	156	115	150	460	8.5	245.5
CJX2-F630N	650	139	140	181	625	10.5	268.5
CJX2-F6304N	810	139	137	181	785	10.5	268.5



a.NC2-115Nc~225Nc



b.NC2-265Nc~630Nc

Table 7

Model	H	H	H1	H1
	Min	Max	Min	Max
CJX2-F115N, CJX2-F150N	200	310	80	190
CJX2-F185N, CJX2-F225N	220	310	100	190
CJX2-F265N	250	380	130	260
CJX2-F330N	260	380	60	200
CJX2-F400N	280	380	100	200
CJX2-F500N	300	380	120	200
CJX2-F630N	380	380	200	200

CJX1-N(P3TD)

Mechanical Interlocking Contactor

Application

CJX1-N Series mechanical interlocking contactor is suitable for the circuit of AC 50Hz or 60Hz, rated operating voltage to 690V-1000V. Under the AC-3 class, the rated operating voltage is 9A-475V when the rated working voltage is 380V, which is mainly used to control the positive and negative rotation of AC motors.

Model No.

CJX 1 - □ / □□ N

- N — Mechanical interlocking
- □□ — Normal close(NC) auxiliary contact quantity
- □ — Normal open(NO) auxiliary contact quantity
- □ — Rated operating current(AC-3,380V)
- 1 — Design No.
- CJX — AC Contactor

Main technical parameter

table 1

Type	Auxiliary contact		Rated working current (380V)	Controllable motor power AC-3					Relay type	Fuse type	
	NO	NC		230/200V KW	400/380V KW	500V KW	690/660V KW	1000V KW		Type 1 (A)	Type 2 (A)
CJX1-9/22N	2	2	9	2.4	4	5.5	5.5	-	3UA50	35	25
CJX1-12/22N	2	2	12	3.3	5.5	7.5	7.5	-	3UA50	35	25
CJX1-16/22N	2	2	16	4	7.5	9	11	-	3UA52	35	25
CJX1-22/22N	2	2	22	5.5	11	11	11	-	3UA52	35	25
CJX1-32/22N	2	2	32	8.5	15	21	23	-	3UA55	35	25
CJX1-38/22N	2	2	38	11	18.5	25	23	-	3UA55	35	25
CJX1-45/22N	2	2	45	15	22	30	39	-	3UA58	160	100
CJX1-63/22N	2	2	63	18.5	30	41	55	-	3UA58	160	125
CJX1-75/22N	2	2	75	22	37	50	67	39	3UA58	250	160
CJX1-110/22N	2	2	110	37	55	76	100	65	3UA60	315	250
CJX1-170/22N	2	2	170	55	90	118	156	90	3UA62	355	250
CJX1-250/22N	2	2	250	78	132	178	235	132	3UA66	500	315
CJX1-400/22N	2	2	400	125	200	284	375	250	3UA66	800	500
CJX1-745/22N	2	2	745	148	252	342	432	250	3UA66	800	500

RDCH8

Household AC contactor

Description

RDCH8 series AC contactor, is mainly applied to circuit of 50Hz or 60Hz, rated operational volteage up to 400V, Rated operational current up to 63A, to control the household appliance and the low induction load, and also can control the household motor load, the control power should decreased accordingly.This production can be used in the household, hotel, apartment those place to realize automation, and also can used in the other appliances. This production conforms to the standard of IEC61095.

Model No.

RD C H 8 - □ / □ □

- Normal close contact poles
- Normal open contact poles
- Frame size
- Design code.
- Household
- AC contactor
- Company code.

Normal working condition and Installation environment

3.1 Temperature: -5°+40°, the average temperature of 24 hours should not exceed 35℃.
3.2 Altitude : should not exceed 2000m.
3.3 The relative humidity: no more than 50%, when Temperature is +40℃. The product can withstand the higher humidity under lower temperature, for instance, when temperature at +20℃, the product can withstand 90% relative humidity.
3.4 Pollution class: 2 class
3.5 Installation type: II class
3.6 Installation codition: the angle between the prodouct and vertical plane should not exceed 5º.
3.7 Installation methods: adopt 35mm DIN-Rail
3.8 Protection class: IP20.

Main Technical parameter

4.1 Poles: 1P, 2P, 3P, 4P
4.2 The specification see Table 1, Table 2

Table 1

Model No.	Rated current (pole)	Using type	Rated operational current(A)	Rated insulation voltage (V)	Control power (kW)	Connection type
RDCH8-25	16 (1P/2P)	AC-7a	16	500	3.5	With soft-cable: 2×2. 5mm² With hard-cable: 6mm²
		AC-7b	7	500	1.0	
	20 (1P/2P)	AC-7a	20	500	4	
		AC-7b	8.5	500	1.2	
	25 (1P/2P)	AC-7a	25	500	5.4	
		AC-7b	9	500	1.4	
	25 (3P/4P)	AC-7a	40	500	16	
RDCH8-63	32 (2P)	AC-7a	32	500	7.2	With soft-cable: 2×10mm² With hard-cable: 25mm²
	32 (3P/4P)	AC-7a	32	500	21	
	40 (2P)	AC-7a	40	500	8.6	
	40 (3P/4P)	AC-7a	40	500	26	
	63 (2P)	AC-7a	63	500	14	
	63 (3P/4P)	AC-7a	63	500	40	

Table 2

Pole	Rated current (A)	Rated voltage (V)	NO NC
1P	16~25	220/230	10
2P	16~25	220/230	20
	40~63		02
3P	25	380/400	30
	40~63		
4P	25	380/400	40
	40~63		04

4.3 Operation performance: Under the condition of the ambient temperature is in the range of -5°C~+40°C, charge the contactor attract coil with rated control power voltage Us and warm it to the stable state, the contactor should attract stably in any value between the 85% and 100% of rated control power voltage Us;

it should release and break between 75% and 20%(2P) or 10%(1P) of the rated control power voltage Us.

4.4 Mechanical life: no less than 1 million times.

4.5 Electrical life: no less than 100 thousands times.

4.6 Wiring diagram: see FIg1 to Fig5

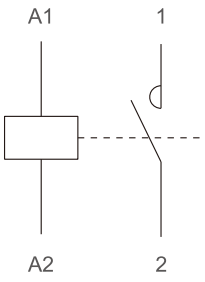


Fig1 16/10~25/10

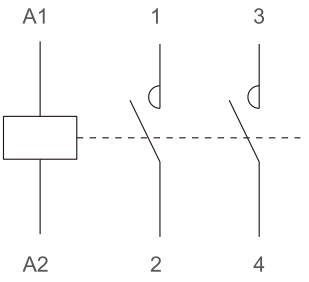


Fig2 16/20~25/20

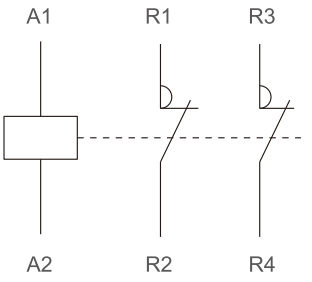


Fig3 16/02~25/02

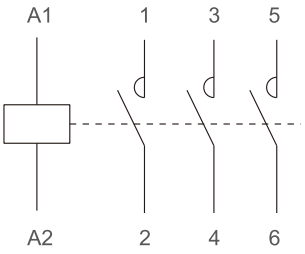


Fig3 16/30~63/30

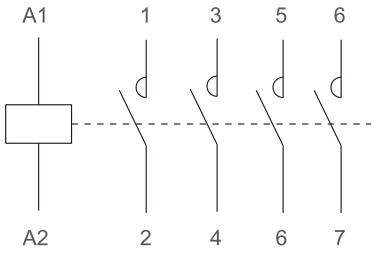


Fig4 25/40~63/40

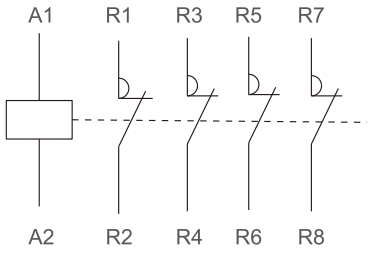
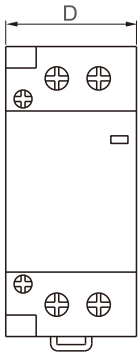


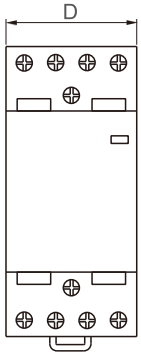
Fig3 25/04~63/04

Overall and Installation Dimensions:

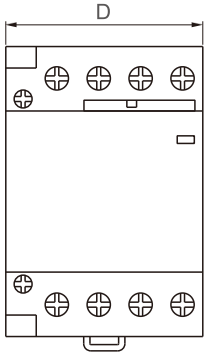
16/25 2P



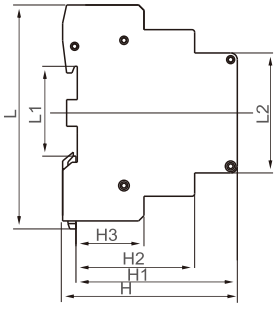
40/63 2P



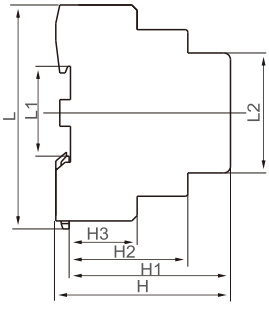
16/25 3P、4P



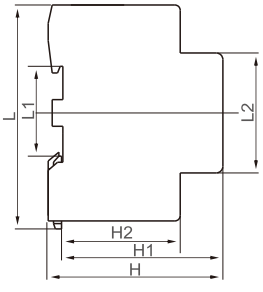
40/63 4P



16/25 2P



16/25 3P、4P



40/63 2P
40/63 3P、4P

Table 3

Model No.	Rated current(Poles)	D	L	L1	L2	H	H1	H2	H3
RDCH8-25	16/25 1P,2P	18	85	35.5	45.5	66	61	45	23
	16/25 3P,4P	36	85	35.5	45.5	66	61	45	23
RDCH8-63	40/63 2P	36	85	35.5	45.5	66	61	45	-
	40/63 3P,4P	54	85	35.5	45.5	66	61	45	-

PLE1-D

Series Magnetic Starter

Application

PLE1-D magnetic starter is applied to circuit of AC 50/60Hz, voltage up to 660V, current up to 95A, used for directly starting or stopping the motor. The starter (assembled with thermal overload relay) could protect motor against overload or phase loss.

Structure characteristic

1. The starter is protected by enclosure (plastic enclosure for PLE1-D09~PLE1-D32; metal enclosure for PLE1-D40~PLE1-D95). The best protective grade of enclosure could be IP65.
2. Operating mechanism is the manual pushbutton: START (green) and STOP (red). PLE1-D is non-reversing starter, equipped with thermal overload relay.

Main technical parameter

1. Main technical parameter and component parts please see Table 1.
2. Rated control circuit voltage (Us) of the starter is: AC50/60Hz, 24V, 42V, 110V, 220/230V, 240V, 380V/400V, 415V, 440V, 480V, and 600V.
3. Operation range:
Pull-in voltage: (50/60Hz) 80%Us-110%Us; (50/60Hz) 85%Us-110%Us;
Release voltage: (50/60Hz) 20%Us-75%Us.
4. The actuation range of starter (assembled with thermal overload relay), has the action characteristics of thermal relay.
5. The operation frequency of starter (assembled with thermal overload relay) is 30 times/hour.

Table 1

Item No.	Rated thermal current Ith	Rated insulation voltage Ui	Rated working current (A)				Rated power in category AC-3 (kW)						Assembled relay model No.	Current settting rate (A)	Assembled AC contactor model No.
			AC-3		AC-4		220V	380V	415V	440V	500V	660V			
			380V	660V	380V	660V	230V	400V				690V			
PLE1-D09	20A	600V	9	6.6	3.5	1.5	0.37		0.37	0.37	0.37	0.37	RDJ2-25	0.63-1	CJX2-09
								0.37	0.55	0.55	0.55	0.55	RDJ2-25	1-1.6	
							0.75	0.75	1.1	1.1	1.1	1.1	RDJ2-25	1.6-2.5	
							1.1	1.5	1.5	1.5	2.2	2.2	RDJ2-25	2.5-4	
							1.5	2.2	2.2	2.2	3.7	3.7	RDJ2-25	4-6	
							2.2	3	3.7	3.7	4	4	RDJ2-25	5.5-8	
							2.2	4	4	4	5.5	5.5	RDJ2-25	7-10	
PLE1-D12	20A		12	8.9	5	2	3	5.5	5.5	5.5	7.5	7.5	RDJ2-25	9-13	CJX2-12
PLE1-D18	32A		18	10.6	7.7	3.8	4	7.5	9	9	10	10	RDJ2-25	12-18	CJX2-18
PLE1-D25	40A		25	18	8.5	4.4	5.5	11	11	11	15	15	RDJ2-25	17-25	CJX2-25
PLE1-D32	50A		32	21	12	7.5	7.5	15	15	15	18.5	18.5	RDJ2-25	23-32	CJX2-32
PLE1-D40	60A		40	34	18.5	9	11	18.5	22	22	22	30	RDJ2-93	30-40	CJX2-40
PLE1-D50	80A		50	39	24	12	15	22	25	30	30	33	RDJ2-93	37-50	CJX2-50
PLE1-D65	80A		65	42	28	14	18.5	30	37	37	37	37	RDJ2-93	55-70	CJX2-65
PLE1-D80	100A		80	49	37	17.3	22	37	45	45	55	45	RDJ2-93	63-80	CJX2-80
PLE1-D95	100A		95	49	44	21.3	25	45	45	55	55	45	RDJ2-93	80-93	CJX2-95

QJX2

Series Star-delta Starter

Application

QJX2 series star-delta starter is applied for circuit of AC50/60Hz, voltage up to 660V, current up to 95A, used for motor starting in category AC-3. The starter (assembled with timer) could transfer "Star-Delta" automatically, to reduce the motor starting voltage and current.

Model No.

QJX 2 - □□

- Rated operational current
- Design code
- Star-Delta starter

Normal operating condition and installation condition

1. Altitude: ≤2000m;
2. Ambient temperature: –5℃~+40℃, average value≤ +35℃ (in 24 hours);
3. Humidity: air relative humidity is lower than 50% at +40℃, higher relative humidity is permitted at lower temperature. Take special measures to condensation, which is caused by temperature change.
4. The installation and operation location has no obvious shake, impact or vibration.
5. Mounting condition: the gradient between mounting surface and vertical plane is not bigger than ±5°

Main technical parameter

1. QJX2 Series AC Star–Delta starter is suitable to control delta connection motor. When the motor is transforming Star–Delta, star starting current is 1.8~2.6 times of motor rated current, however, while running delta connection, the current is 0.58 time of motor rated current.
2. QJX2 series Star–Delta starter technical data please see Table 1

Table 1

Star-Delta starter				380V squirrel cage motor			Matched thermal relay model	Current adjust range (A)	Matched fuse rated current (A)
Model No.	Product composition			Rated current In (A)	0.58 In (A)	Control power (kW)			
	KM2	KM3	KM1						
QJX2-12	CJX2-12	CJX2-12	CJX2-09	18.5	9	10.7	JRS1-12	10-13	20
				20	10	11.6	JRS1-12	10-13	20
				22	11	12.8	JRS1-12	10-13	25
QJX2-18	CJX2-18	CJX2-18	CJX2-09	30	15	17.4	JRS1-25	13-18	32
				37	18.5	21.5	JRS1-25	18-25	40
QJX2-25	CJX2-25	CJX2-25	CJX2-09	37	21.5	18.5	JRS1-25	18-25	40
QJX2-32	CJX2-32	CJX2-32	CJX2-25	44	25.5	22	JRS1-32	23-32	50
				52	30.2	25	JRS1-32	23-32	63
QJX2-40	CJX2-40	CJX2-40	CJX2-25	44	25.5	22	JRS1-40	23-32	50
				52	30.2	25	JRS1-40	23-32	63
				60	34.8	30	JRS1-40	30-40	63
				68	39.5	33	JRS1-63	38-50	80
				72	41.8	37	JRS1-63	38-50	80
QJX2-50	CJX2-50	CJX2-50	CJX2-40	79	45.8	40	JRS1-63	38-50	80
				85	49.3	45	JRS1-63	48-57	100
				98	56.8	51	JRS1-63	48-57	100
				105	60.9	55	JRS1-63	57-66	125
QJX2-80	CJX2-80	CJX2-80	CJX2-50	112	65	59	JRS1-63	57-66	125
				117	67.9	63	JRS1-80	63-80	160
				138	80	75	JRS1-80	63-80	160
QJX2-95	CJX2-95	CJX2-95	CJX2-50	147	85.3	80	JRS1-F105	75-105	160

The control motor power (under different voltage) of QJX2 Series (Star-Delta Starter), and other technical data, please see Table 2.

Table 2

Model No.	Rated work voltage	Rated work current (AC-3)	3-phase motor power Category AC-3 (kW)				Electrical life (10^4times)	Operation frequency (times/h)	Mechanical life (10^4times)	Time delay electrical life (10^4 times)	Maximum starting time (s)
			220V	380V	415V	440V					
QJX2-12	660V	12A	5.5	11	11	11	20 (AC-3)	30	100~200	500	30
QJX2-18		18A	11	18.5	22	22					
QJX2-25		25A	11	18.5	22	22					
QJX2-32		32A	15	25	25	25					
QJX2-40		40A	18.5	37	37	37	1 (AC-4)				
QJX2-50		50A	25	55	59	59					
QJX2-80		80A	37	75	75	75					
QJX2-95		95A	45	80	80	80					

Dimensions

The outline and installation dimension of QJX2 Series (Star-Delta Starter) please see fig. 1~3 and Table 3

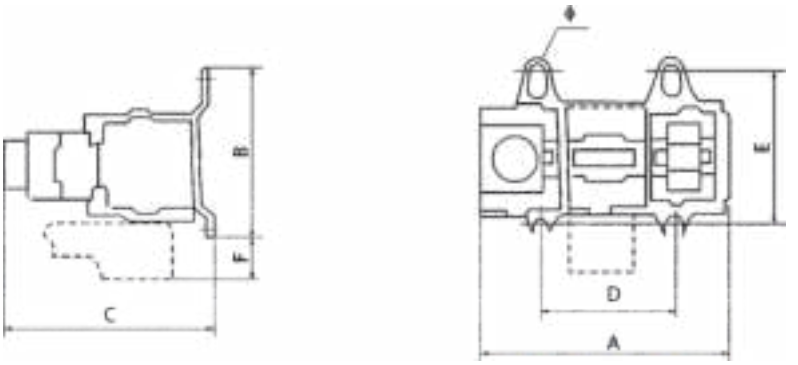


Fig. 1 QJX2-12~QJX2-32

Table 3

Model No.	Overall and installation dimensions (mm)						
	A	B	C	D	E	F	φ
QJX2-12	140	124	140	90	110	10	4-φ6.3
QJX2-18	140	124	140	90	110	10	4-φ6.3
QJX2-25	170	124	149	90	110	10	4-φ6.3
QJX2-32	170	124	149	90	110	10	4-φ6.3

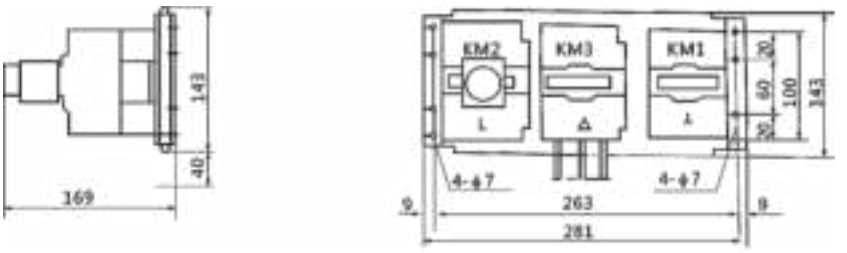


Fig. 2 QJX2-40, QJX2-50

KM1-Y: Y running contactor KM2: isolated contactor KM3: △ running contactor

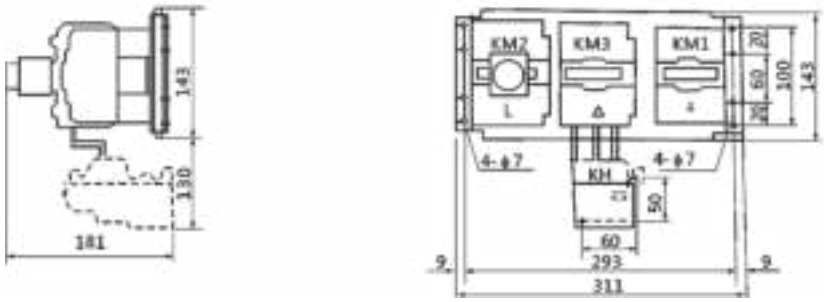
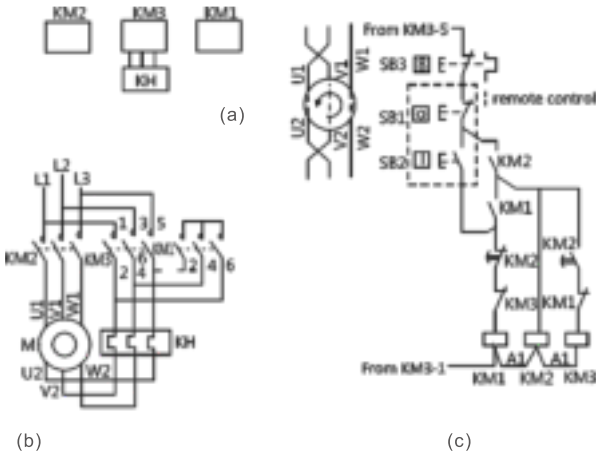


Fig. 3 QJX2-80, QJX2-95

Wiring diagram



(a) The layout of three contactors;
(b) The wiring of main circuit;
(c) The wiring of control circuit;
KM1-Y: Y running contactor,
KM2: isolated contactor,
KM3: △ running contactor;
KH: thermal relay,
SB1, SB2: remote control button;
SB3: stop button,
M: motor.

PGV2 & PGV3

Manual Motor Starter

Application

1.1 Standard: IEC / EN 60947-4-1, IEC 60947-2
1.2 Protection class: IP20
1.3 Electric rating: AC 50/60Hz, AC 690V

Normal operating condition and installation condition

2.1 Ambient air temperature: -5...+ 40℃
2.2 Relative humidity: ≤90%
2.3 Pollution degree: III
2.4 Product should be installed and operated at a place without obvious shake, impact or vibration.

Main technical parameter

3.1 Rated insulation voltage Ui: 690V
3.2 Rated operating voltage Ue: 230/240V, 400/415V, 440V, 500V, 690V
3.3 Rated impulse withstand voltage Uimp: 8000V
3.4 Rated current: up to 32A for PGV2; up to 80A for PGV3
3.5 Protection reference to see below:

Overload protection reference — Table 1

No.	Applied current	Initial status	Time		Expected results	Ambient temperature
1	1.05 In	cold status	t≥2 hours		no tripping	+20℃ ± 2℃
2	1.20 In	heat status (right after test No.1)	t<2 hours		tripping	
3	1.50 In	heat status (right after test No.1)	tripping class	(10A) t<2 min		
				(10A) t<4 min		
4	7.20 In	cold status	tripping class	(10A) 2 s<t ≤10 s		
				(10A) 4 s<t ≤10 s		

Phase failure protection reference — Table 2

No.	Applied current		Initial status	Time	Expected results	Ambient temperature
	any 2 phase	Other phases				
1	1.0	0.9	cold status	t≥2 hours	no tripping	+20℃ ± 2℃
2	1.15	0	heat status (right after test No.1)	t<2 hours	tripping	

Table 3

No.	Applied current	Initial status	Time	Expected results	Ambient temperature
1	1.0 In	cold status	t≥2 hours	no tripping	+40℃ ± 2℃
2	1.20 In	heat status (right after test No.1)	t<2 hours	tripping	
3	1.05 In	cold status	t≥2 hours	no tripping	-5℃ ± 2℃
4	1.30 In	heat status (right after test No.1)	t<2 hours	tripping	

The technical data of PGV2 please see below Table 4 and Table 5

Table 4

Model	Range of setting current (A)	Rated current (A)	Electromagnetic tripping current (A)	Matched three phase motor				
				220V	400V	440V	500V	690V
PGV2-M01	0.10~0.16	0.16	1.50	--	--	--	--	--
PGV2-M02	0.16~0.25	0.25	2.40	--	--	--	--	--
PGV2-M03	0.25~0.40	0.40	5.00	--	--	--	--	--
PGV2-M04	0.40~0.63	0.63	8.00	--	--	--	--	0.37
PGV2-M05	0.63~1.00	1.00	13.0	--	--	0.37	0.37	0.55
PGV2-M06	1.00~1.60	1.60	22.5	--	0.37	0.55	0.75	1.10
PGV2-M07	1.60~2.50	2.50	33.5	0.37	0.75	1.10	1.10	1.50
PGV2-M08	2.50~4.00	4.00	51	0.75	1.50	1.50	2.20	3.00
PGV2-M10	4.00~6.30	6.30	78	1.10	2.20	3.00	3.70	4.00
PGV2-M14	6.00~10.00	9.00	138	2.20	4.00	4.00	5.50	7.50
PGV2-M16	9.00~14.00	13.00	170	3.00	5.50	7.50	7.50	9.00
PGV2-M20	13.00~18.00	17.00	223	4.00	7.50	9.00	9.00	11.00
PGV2-M21	17.00~23.00	21.00	327	5.50	11.00	11.00	11.00	15.00
PGV2-M22	20.00~25.00	23.00	327	5.50	11.00	11.00	15.00	18.50
PGV2-M32	24.00~32.00	24.00	416	7.50	15.00	15.00	18.50	26.00

Table 5

Model	Rated ultimate short-circuit breaking capacity Icu (kA)					Rated service short-circuit breaking capacity Ics (kA)					Fuse				
	220V	400V	440V	500V	690V	220V	400V	440V	500V	690V	220V	400V	440V	500V	690V
PGV2-M01	100	100	100	100	100	100	100	100	100	100	*	*	*	*	*
PGV2-M02	100	100	100	100	100	100	100	100	100	100	*	*	*	*	*
PGV2-M03	100	100	100	100	100	100	100	100	100	100	*	*	*	*	*
PGV2-M04	100	100	100	100	100	100	100	100	100	100	*	*	*	*	*
PGV2-M05	100	100	100	100	100	100	100	100	100	100	*	*	*	*	*
PGV2-M06	100	100	100	100	100	100	100	100	100	100	*	*	*	*	*
PGV2-M07	100	100	100	100	3	100	100	100	100	2.25	*	*	*	*	20
PGV2-M08	100	100	100	100	3	100	100	100	100	2.25	*	*	*	*	32
PGV2-M10	100	100	100	100	3	100	100	50	50	2.25	*	*	63	63	40
PGV2-M14	100	100	100	100	3	100	100	15	10	2.25	*	*	63	63	40
PGV2-M16	100	15	8	6	3	100	7.50	4	4.50	2.25	*	80	63	63	50
PGV2-M20	100	15	8	6	3	100	7.50	4	4.50	2.25	*	80	63	63	50
PGV2-M21	50	15	6	4	3	50	6	3	3	2.25	100	100	80	63	50
PGV2-M22	50	15	6	4	3	50	6	3	3	2.25	100	100	80	63	50
PGV2-M32	30	10	6	4	3	30	10	4.50	3	2.25	100	100	80	63	50

Remarks: * means fuse is not required.

The technical data of PGV3 please see below Table 6 and Table 7:

Table 6

Model	Range of setting current (A)	Rated current (A)	Electromagnetic tripping current (A)	Matched three phase motor				
				220V	400V	440V	500V	690V
PGV3-M06	1.00~1.60	1.6	19.2	--	0.37	0.55	0.75	1.10
PGV3-M07	1.60~2.50	2.5	30	0.37	0.75	1.10	1.10	1.50
PGV3-M08	2.50~4.00	4	48	0.75	1.50	1.50	2.20	3.00
PGV3-M10	4.00~6.00	6	72	1.10	2.20	3.00	3.70	4.00
PGV3-M14	6.00~10.00	10	120	2.20	4.00	4.00	5.50	7.50
PGV3-M20	10.00~16.00	16	192	4.00	7.50	7.50	10.00	11.00
PGV3-M25	16.00~25.00	25	300	5.50	11.00	11.00	15.00	18.50
PGV3-M40	25.00~40.00	40	480	11.00	22.00	22.00	25.00	33.00
PGV3-M63	40.00~63.00	63	756	15.00	33.00	33.00	40.00	55.00
PGV3-M80	56.00~80.00	80	960	22.00	45.00	45.00	55.00	63.00

Table 7

Model	Rated ultimate short-circuit breaking capacity Icu (kA)					Rated service short-circuit breaking capacity Ics (kA)					Fuse				
	220V	400V	440V	500V	690V	220V	400V	440V	500V	690V	220V	400V	440V	500V	690V
PGV3-M06	100	60	60	20	3	75	30	30	10	1.5	*	*	*	*	*
PGV3-M07	100	60	60	20	3	75	30	30	10	1.5	*	*	*	*	10
PGV3-M08	100	60	60	20	3	75	30	30	10	1.5	*	*	*	*	32
PGV3-M10	100	60	60	20	3	75	30	30	10	1.5	*	*	63	63	40
PGV3-M14	100	60	60	20	3	75	30	30	10	1.5	*	*	63	63	40
PGV3-M20	100	35	25	10	4	75	17.5	12.5	5	2	*	80	63	63	63
PGV3-M25	100	35	25	8	4	75	17.5	12.5	4	2	*	80	63	63	50
PGV3-M40	100	35	25	8	4	75	17.5	12.5	4	2	*	315	315	200	200
PGV3-M63	100	35	25	8	4	75	17.5	12.5	4	2	*	400	400	250	250
PGV3-M80	100	35	25	8	4	75	17.5	12.5	4	2	*	400	400	250	250

Remarks: * means fuse is not required.

Accessories

Auxiliary contact

Model	Rated insulation voltage Ui (V)	Conventional thermal current Ith (A)	Configuration
PGV2-AE11	250	2.50	1 NO + 1 NC
PGV2-AE20	250	2.50	2 NO
PGV2-AN11	690	6.0	1 NO + 1 NC
PGV2-AN20	690	6.0	2 NO
PGV3-A01	690	6.0	1 NO + 1 NC
PGV3-A02	690	6.0	2 NO

Under-voltage release

Model	Rated insulation voltage Ui (V)	Voltage range of operation	Specification
PGV2-AU115	690	0.35-0.7Ue	110-115V/50Hz
PGV2-AU115	690	0.35-0.7Ue	127V/60Hz
PGV2-AU225	690	0.35-0.7Ue	220-240V/50Hz
PGV2-AU225	690	0.35-0.7Ue	380-440V/50Hz
PGV2-AU385	690	0.35-0.7Ue	440V/60Hz

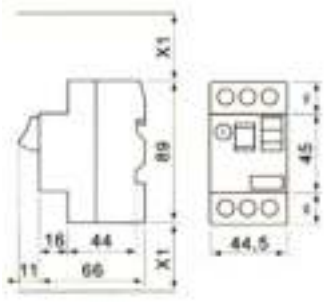
Shunt release

Model	Rated insulation voltage Ui (V)	Voltage range of operation	Specification
PGV2-AS115	690	0.70-1.1Ue	110-115V/50Hz
PGV2-AS115	690	0.70-1.1Ue	127V/60Hz
PGV2-AS225	690	0.70-1.1Ue	220-240V/50Hz
PGV2-AS225	690	0.70-1.1Ue	380-440V/50Hz
PGV2-AS385	690	0.70-1.1Ue	440V/60Hz

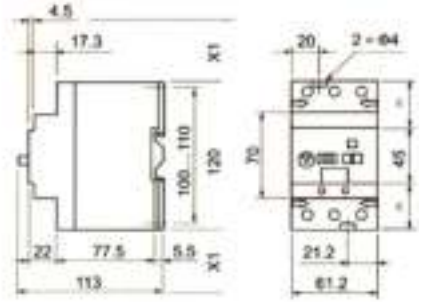
Fault signal contact and instantaneous auxiliary contact

Model	Rated insulation voltage Ui (V)	Conventional thermal current Ith (A)		Configuration
		Auxiliary contact	Fault signal contact	
PGV2-AD0110	690	6.0	2.5	1 NC + 1 NO
PGV2-AD0101	690	6.0	2.5	1 NC + 1 NC
PGV2-AD1010	690	6.0	2.5	1 NO + 1 NO
PGV2-AD1001	690	6.0	2.5	1 NO +1 NC

Dimensions

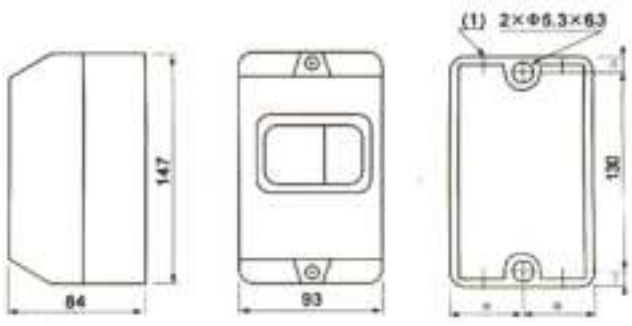


PGV2-M



PGV3-M

Drawing for enclosure



RDJ2

Series Thermal Over-load Relay

Usage and its scope of application

RDJ2 (LR2) series bimetal type thermal over-load relay is suitable for the circuit of AC50Hz/60Hz, rated operating voltage Ue:660V, rated current 0.10~630 (A), as the use of over-load, break phase and protection of motor and circuit.
The structure and main technique performance index of this thermal relay is the same with LR2 series thermal relay, therefore, LR2 series thermal relay can be entirely replaced by RDJ2 series thermal relay.
Thermal relay with the functions and characteristics of break phase protection temperature compensation, setting current adjusting, optional selection of auto-reset and manual reset, action indication signal, insulation separation of NO, NC auxiliary contacts, small installation section, and various installation mode. Moreover, it has the testing and stop push-buttons,and it can be inspected the action flexibility, has the protective cover that prevent the hand get shocked, safe to use, with the locking device to prevent mis-operation etc.
This product conforms to : IEC60947-4-1 standards.

Model No.

RD J 2 - □ / □

- Code for Installation mode (Z for Combination type, F for Separated type
- Rated operating current (A)
- Design serial No.
- Thermal over-load relay
- Enterprise code

Normal operating and installation conditions

3.1 Ambient temperature: -5℃~+40℃, and the average value within 24h does not exceed +35℃
3.2 Altitude of the installation place does not exceed 2000m;
3.3 Atmosphere condition: The relative humidity does not exceed 50% when it is at +40℃, it allowed relatively high humidity at the relatively low temperature, for example, the relative humidity reaches 90% when +20℃, and it should take special measurements when there produced the condensation on the product due to the temperature variation.
3.4 It should be at the no explosion danger medium, and the medium without the gas that cannot corrode the metal and damage the insulation as well as the places that without conductive dust.
3.5 Grade of pollution: 3
3.6 Installation category: III
3.7 Installation position: installed at the normal position, the gradient between the installation side and the vertical side does not exceed ±5° , and without obvious vibration and impact.
3.8 Protection grade: IP 20.

Main technical parameter

Rated operating current, setting current adjusting scope, suited AC contactor model and recommended fuse model for thermal relay to see table 1

table 1

No	Model	Rated current A	Setting current adjusting scope A	Suited AC contactor model	Suited fuse model	Cross section of conductor mm²
1	RDJ2-25	25	0.1-0.16	CJX2-09-32	RDT16-00-2	1
2			0.16-0.25			
3			0.25-0.4			
4			0.4-0.63			
5			0.63-1			
6			1-1.6		RDT16-00-4	
7			1.25-2			
8			1.6-2.5		RDT16-00-6	
9			2.5-4		RDT16-00-10	
10			4--6		RDT16-00-16	
11			5.5-8			
12			7--10		RDT16-00-20	1.5
13	RDJ2-25	25	9--13	CJX2-12-32	RDT16-00-25	2.5
14			12--18		RTD16-00-40	
15			17-25	CJX2-25,CJX2-32	RDT16-00-50	4
16	RDJ2-36	36	23-32		RDT16-00-63	6
17			28-36	CJX2-32	RDT16-00-80	10
18	RDJ2-93	93	23-32	CJX2-40-95	RDT16-00-63	6
19			30-40		RDT16-00-80	10
20			37-50	CJX2-50-95	RDT16-00-100	
21			48-65		RDT16-00-125	16
22			55-70	CJX2-63-95	RDT16-00-160	25
23			63-80	CJX2-80,CJX2-95		
24			80-93	CJX2-95	RDT16-1-200	35
25	RDJ2-200	200	80-125	CJX2-115,150, 185,225	RDT16-1-250	50
26			100-160		RDT16-1-315	70
27			125-200		RDT16-2-400	95
28	RDJ2-630	630	160-250	CJX2-185,225, 265,330,400	RDT16-3-500	120
29			200-320		RDT16-3-630	185
30			250-400		RDT16-4-800	240
31			315-500	CJX2-500,630	RDT16-4-1000	2X150
32			400-630		RDT16-4-1000	2X185

Rated insulation voltage of auxiliary circuit Ui 380V; Rated frequency 50, 60Hz; Usage category, rated operating voltage, rated operating current and rated thermal current to see table 2

table 2

Usage category	AC-15		DC-13
Rated operating voltage V	220	380	220
Rated operating current A	1.64	0.95	0.15
Setting thermal current A	6		

Action characteristics of thermal relay when it is at load balance of each phase confirms to table 3

table 3

No.	Multiple of setting current	Action time			Initial status	Ambient temperature℃
1	1.05	>2h			Cool status	20±5℃
2	1.20	<2h			Thermal status (after serial No.1)	
3	1.50	Grade of releasing	10A	<2min		
			10	<4min		
4	7.20		10A	2s<top≤10s	Cool status	
			10	4s<top≤10s		

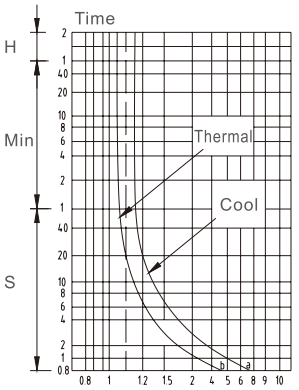
Releasing grade: RDJ2-25, RDJ2-36 is 10A grade, RDJ2-93, 200, 630 is 10 grade.

Action characteristics of thermal relay when it is at load unbalance of each phase to see table 4

table 4

No.	Multiple of setting current		Action time	Initial status	Ambient temperature℃
	Any two phases	Another phase			
1	1.00	0.90	>2h	Cool status	20±5℃
2	1.15	0	≤2h	Thermal status (after serial No.1)	

Time-current characteristics curve of thermal relay to see map 1



Multiple of setting current

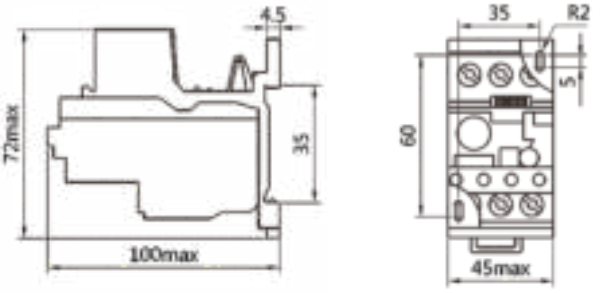
Map 1 Action scope curve

A. Three phase balance, unbalance, starting by cool status;
B. Three phase balance, break phase, starting by thermal status

External and installation dimension

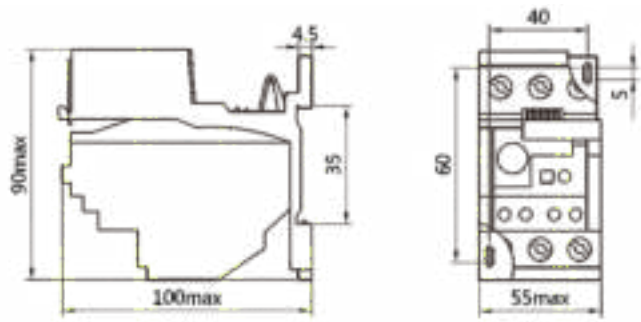
External and installation dimension of thermal relay to see map 2~9

Map 2 External and installation dimension for RDJ2-25/Z



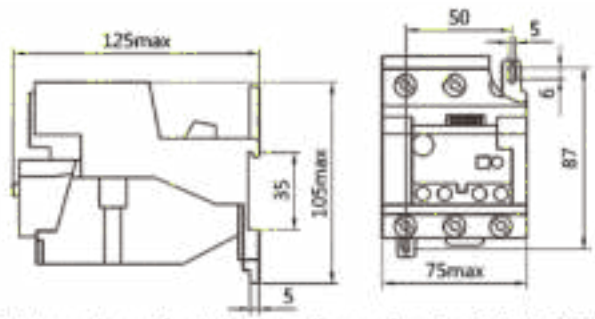
Map 3 External and installation dimension for RDJ2-25/F

Map 4 External and installation dimension for RDJ2-36/Z

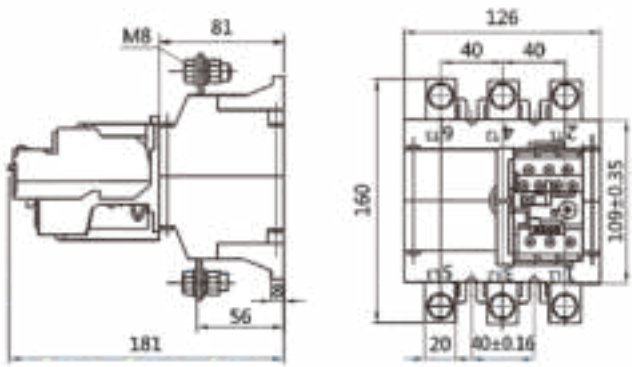


Map 5 External and installation dimension for RDJ2-36/F

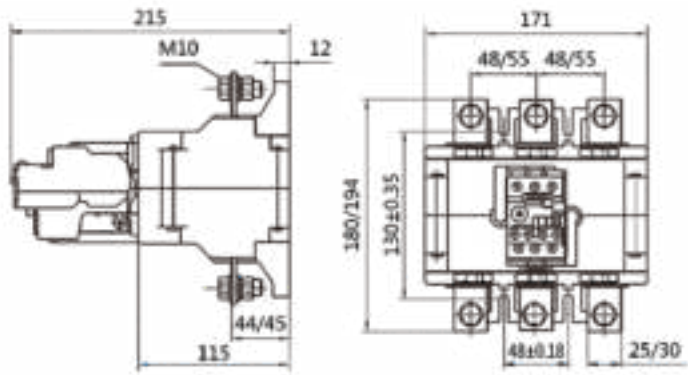
Map 6 External and installation dimension for RDJ2-93/Z



Map 7 External and installation dimension for RDJ2-93/F



Map 8 External and installation dimension for RDJ2-200/Z



Map 9 External and installation dimension for RDJ2-200/F

JRS2

Series Thermal Over-load Relay

Usage and its scope of application

JRS2 Series Thermal Relay is suitable for the power system of AC50Hz/60Hz, rated voltage Ue: 690V, current 0.1~630 (A) as the use of over-load and break-phase protection of AC motor or circuit. Thermal relay has the functions of break phase protection, temperature compensation, optional selection of manual reset and auto-reset, inspection of action flexibility, and manually break the NC contacts and NO contacts.
This product conforms to: IEC60947-4-1 etc. standards.

Model No.

JR S 2- □ / □

- Installation mode (Z for combined type, F for separated type
- Code for basic specification (to be indicated as rated current A)
- Design serial No.
- Three phase type
- Thermal Over-load Relay

Normal operating condition and installation condition

3.1 Ambient temperature: -5℃~+40℃, average value within 24h does not exceed +35℃;
3.2 Height of altitude: does not exceed 2000m,
3.3 Atmosphere: when highest temperature is +40℃, the relative humidity does not exceed 50%; it allowed the relatively high humidity when it is under the relatively low temperature, for example, it reaches 90% when +20℃; It should take special measurements if there produced condensation that is due to the temperature variation.
3.4 Grade of pollution: 3
3.5 Installation category: III
3.6 Position of installation: the gradient between the installation side of relay and the vertical side is not more than ±5°
3.7 Impact and vibration: product should be installed and used at the places of no obvious shake, impact and vibration.
3.8 Installation mode:
JRS2-12.5, 25, 32, 45, 80 has three kinds of installation mode: combination installation, screw installation, 35mm standard rail installation.
JRS2-63, 135, 150, 180, 400, 630 has two kinds of installation mode: screw installation, 35mm standard rail installation.
3.9 Protection grade: IP00

Continued table 2

Model	Setting current adjustable scope A	Recommended SCPD model, specification	Conductor's cross section for main circuit mm
JRS2-63、80	40-57	RDT16-00-125	16
	50-63		
JRS2-135、150、180	55-80	RDT16-1-160	25
JRS2-80	57-70		
	63-80		
JRS2-80	77-88	RDT16-1-160	35
JRS2-135、150、180	63-90	RDT16-1-200	
	80-110	RDT16-1-250	
JRS2-400	80-125		50
JRS2-135、150、180	90-120		
	110-135	RDT16-2-315	
JRS2-150、180	120-150		
JRS2-400	125-200	RDT16-2-400	95
JRS2-180	135-160	RDT16-2-315	70
	150-180	RDT16-2-400	95
JRS2-400	160-250	RDT16-3-500	120
	200-320	RDT16-3-630	185
	250-400	RDT16-4-800	240
JRS2-630	320-500	RDT16-4-1000	2×150
	400-630		2×185

Action scope of the thermal relay when its each pole electrified to see table 3

table 3

Model	Multiple of setting current	Action time			Predict results	Initial status	Ambient temperature℃
1	1.05	＞2h			No action	Cool status	20±5℃
2	1.20	＜2h			Action	Thermal status (after serial No.1)	
3	1.50	Grade of releasing	10A	＜2min	Action		
			10	＜4min	Action		
4	7.50		10A	2s＜top≤10s	Action	Cool status	
			10	4s＜top≤10s	Action		

Releasing grade: JRS2-12.5, JRS2-25, JRS2-32, JRS2-45, JRS2-63 is 10A grade, JRS2-80, JRS2-135,JRS2-150, JRS2-180, JRS2-400, JRS2-630 is 10 grade.

Action scope of thermal relay when two poles electrified to see table 4

table 4

No.	Multiple of setting current		Action time	Initial status	Ambient temperature ℃
	Any two phases	Another phase			
1	1.00	0.90	＞2h	Cool status	20±5℃
2	1.15	0	≤2h	Thermal status (after serial No.1)	

Basic parameter of auxiliary circuit to see table 5

table 5

Rated insulation voltage Ui (V)	380		
Setting thermal current Ith (A)	6		
Usage category	AC-15		AC-13
Rated operating voltage Ue (V)	220	380	220
Rated operating current Ie (A)	1.9	1.1	0.2
Suited fuse (RDT16 type) specification A	6		

Main technical parameter

Rated insulation voltage of thermal relay as well as suited AC contactor to see table 1

table 1

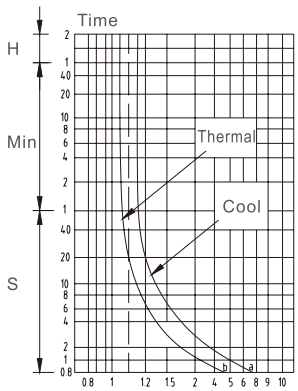
Model	Suited contactor model for combination installation	Rated insulation	voltage Electrical life	Frequency of over-load protection
JRS2-12.5	CJX1-0.9,CJX1-12	660V	10000	10000
JRS2-25	CJX1-16,CJX1-22, CJX1-32			
JRS2-32	CJX1-32,CJX1-22			
JRS2-45	CJX1-32,CJX1-38			
JRS2-63	CJX1-0.9,12,16,22,32,38,48,63,75			
JRS2-80	CJX1-45,63,75			
JRS2-125	CJX1-85,110,140			
JRS2-150	CJX1-85,110,140,170			
JRS2-180	CJX1-85,110,140,170,205			
JRS2-400	CJX1-250,300,400			
JRS2-630	CJX1-500,630			

Setting current adjusting scope of thermal relay as well as the recommended SCPD model and specification to see table 2

table 2

Model	Setting current adjustable scope A	Recommended SCPD model, specification	Conductor's cross section for main circuit (mm^2)
JRS2-12.5,25,45,63	0.1-0.16	RDT16-00-2	1
	0.16-0.25		
	0.25-0.4		
JRS2-12.5	0.32-0.5		
JRS2-12.5,25,45,63	0.5-0.63		
	0.63-1		
	0.8-1.25	RDT16-00-4	
	1-1.6		
	1.25-2		
JRS2-12.5,25,45,63	1.6-2.5	RDT16-00-6	1
	2-3.2		
	2.5-4	RDT16-00-10	
	3.2-5		
JRS2-12.5,25,32,50,63,80	4-6.3	RDT16-00-16	
JRS2-12.5,25,45,63	5--8		
JRS2-12.5,25,32,45,63	6.3-10	RDT16-00-20	1.5
JRS2-12.5,25,45,63	8-12.5	RDT16-00-25	2.5
JRS2-12.5	10-14.5	RDT16-00-32	
JRS2-25,32,45,63	10--16		
JRS2-80	11--17	RDT16-00-40	
JRS2-25,32,45,63,80	12.5-20		
JRS2-25,32,45,63,80	16-25	RDT16-00-50	
JRS2-32,45,63,80	20-32	RDT16-00-63	4
JRS2-32,45	25-36	RDT16-00-80	6
JRS2-63,80	25-40		
JRS2-45	32-40		
	36-45	RDT16-00-100	10
JRS2-63	32-45		
JRS2-80	32-40		

Releasing grade of thermal relay: JRS2-12.5, 25, 32, 45, 63, 80, 135, 150, 180, 400, 630 is 10A grade
Its action scope classic curve to see map 2

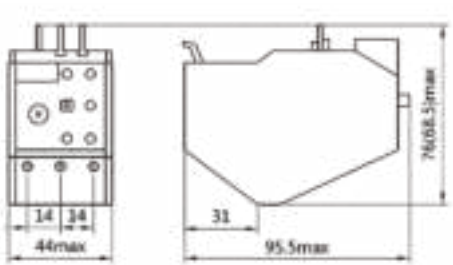


Multiple of setting current
Map 1 Action scope curve

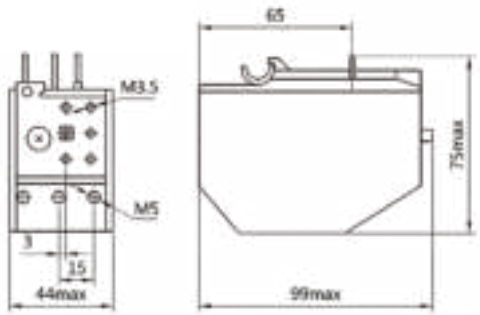
A. Three phase balance, unbalance, starting by cool status;
B. Three phase balance, break phase, starting by thermal status

External and installation dimension

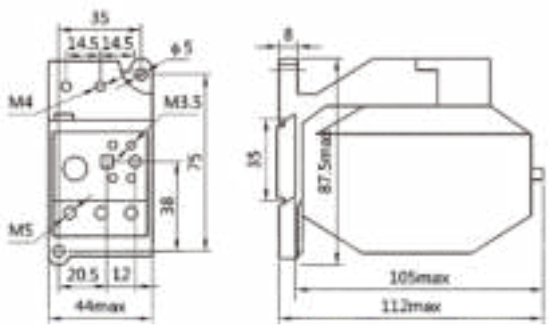
External and installation dimension of thermal to see map 3~10



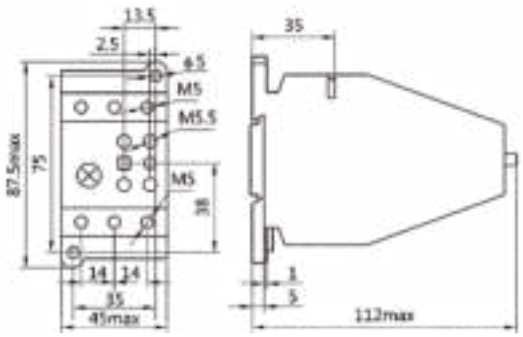
Map 3 External and installation dimension of JRS2-12.5/Z, JRS2-25/Z



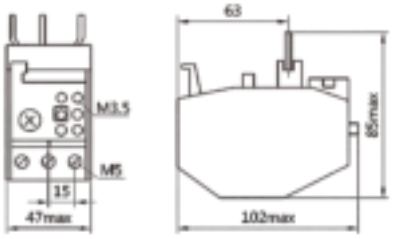
Map 4 External and installation dimension of JRS2-32/Z



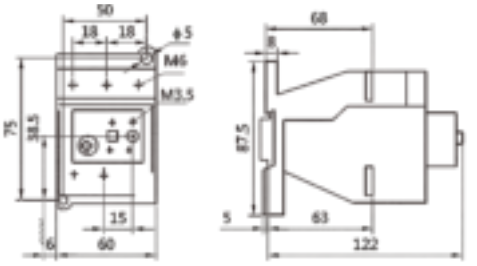
Map 5 External and installation dimension of JRS2-12.5/F, JRS2-25/F,JRS2-32/F



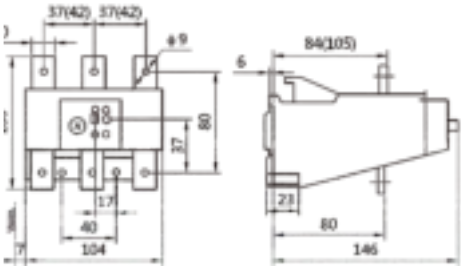
Map 6 External and installation dimension of JRS2-63



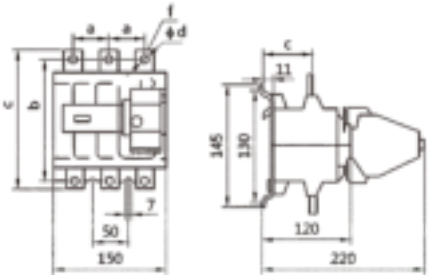
Map 7 External and installation dimension of JRS2-45/Z



Map 8 External and installation dimension of JRS2-80/Z



Map 9 External and installation dimension of JRS2-135, 150 180/F



Map 10 External and installation dimension of JRS2-400, 630

Installation dimension of JRS2-400, 630 to see table 6

table 6

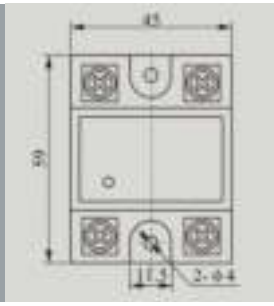
Model	a	b	c	d	f
Setting current of 80~200A for JRS2-400	46	140	69	9	20×3
Setting current of 160~400A for JRS2-400	50	146	70	11	25×4
Setting current of 320~630A for JRS2-600	52	156	71	11	30×3

SSR/JGX

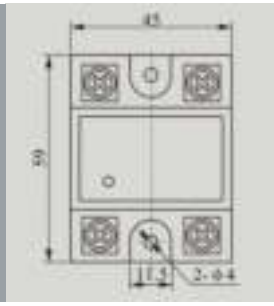
Solid State Relay

Main technical parameter

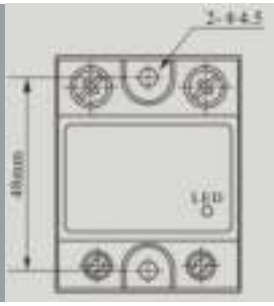
Size(mm):59×45×25
On-off time:Below 0.5 period of 1ms+load current
Load Voltage:25V-250VAC, H:150V-450VAC
Output Voltage Drop:1.8Vmax
Off Leakage Current:
Type zero-crossing:10mA max.(at 220VAC)15mA max.(at 380VAC)
Type random 5mA max(at 220VAC) 10mA max.(at 380VAC)
Insulation Resistance: 100M min. (at 500VDC)
Dielectric Strength: 2000VAC 50Hz/1min
Operating Temperature: -20 ~80℃



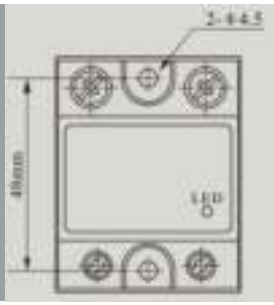
Size(mm):59×45×25
On-off time:Below 0.5 period of 1ms+load current
Load Voltage:25V-250VAC, H:150V-450VAC
Output Voltage Drop:1.8Vmax
Off Leakage Current:
Type zero-crossing:10mA max.(at 220VAC)15mA max.(at 380VAC)
Type random 5mA max(at 220VAC) 10mA max.(at 380VAC)
Insulation Resistance: 100M min. (at 500VDC)
Dielectric Strength: 2000VAC 50Hz/1min
Operating Temperature: -20 ~80℃



Size(mm) 62.5×45×23.5
Controlmethod:DA:DC control of AC AA:AC control of AC
Control Voltage:3-32VDC 80-250VAC
Load Voltage:24V-380VAC,H:90V-480VAC
Output Voltage Drop:1.5Vmax.
Off Leakage Current: 5mA No build-in RC absorption ring
Insulation Resistance: 1000M 500VDC Voltage testing
Dielectric Strength: 4000Vrms Input terminal output terminal
2500Vrms Input terminal, output terminal radiator
Operating Temperature: -20 ~80℃



Size(mm): 62.5×45×23.5
Control method:VA:Solid voltage regulator
Control Voltage:Outside-controlled adjustsble potentiometer
470K -560K /2W
Load Voltage:24V-380VAC,H:90V-480VAC
Output Voltage Drop:1.5Vmax.
Off Leakage Current: 5mA No build-in RC absorption ring
Insulation Resistance: 1000M 500VDC Voltage testing
Dielectric Strength: 4000Vrms Input terminal output terminal
2500Vrms Input terminal, output terminal radiator
Operating Temperature: -20 ~80℃



JQX-13F

Series General Purpose Relay

Main technical parameter

JQX-13F		
Contact Ratings	1Z,1H,1D	2Z
Contact Resistance	50MΩ(1A 6VDC)	
Contact Material	Silver Alloy	
Contact Capacity	15A/250VAC 28VDC	10A/250VAC 28VDC

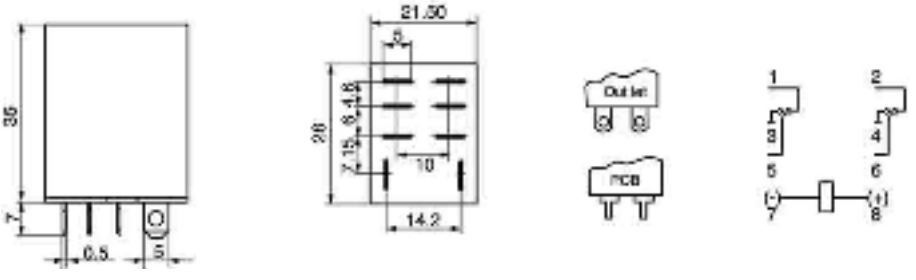
Specification

Insulation Resistance	500MΩ,500VDC
Dieletric Strength	BCC 1500V 1 min
	BOC 1000V 1 min
	COC 1500V 1 min
Operate Time	25ms/25ms
Terminal Type	PCB,Socket

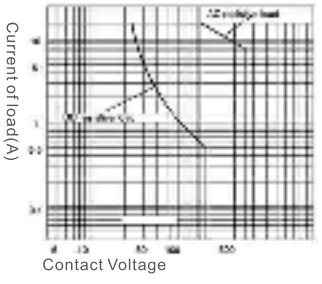
Coil Versions

Nominal Voltage VDC	Pull-in Voltage VDC	Release Voltage VDC	Coil Resistance Ω:±10%	Nominal Voltage VAC	Pull-in Voltage VAC	Release Voltage VAC	Coil Resistance Ω:±10%
5	4.8	0.50	30	6	4.8	1.80	12
6	4.8	0.60	40	12	9.6	3.60	42
12	9.6	1.20	160	24	19.2	7.20	168
24	19.2	2.40	640	48	38.4	14.4	675
48	38.4	4.80	2560	110	96.0	36.0	3500
110	88.0	11.0	12100	220/240	176.0	66.0	14000/16500

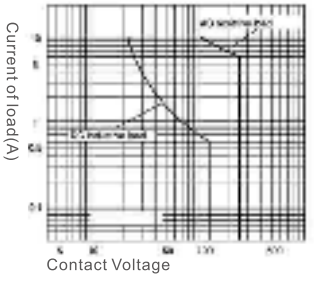
Dimension.Bottom View



(2Z,3Z)Max.Operating Power



(4Z)Max.Operating Power



JQX-10F(JTX)

Series General Purpose Relay

Main technical parameter

JQX-10F(JTX)		
Contact Ratings	2Z 3Z(2C 3C)	3C
Contact Resistance	50MΩ(1A 6VDC)	
Contact Material	AgCdO	
Contact Capacity	5A/10A	7A/10A
	28VDC/250VAC	28VDC/250VAC

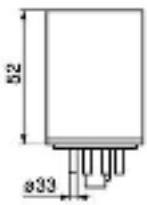
Specification

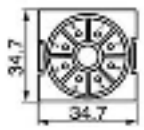
Insulation Resistance	500MΩ,500VDC
Dieletric Strength	BCC 1500V 1 min
	BOC 1000V 1 min
Operate Time	20ms/15ms
Terminal Type	PCB,Socket
Norminal Coil Power	1.5W/2.5VA

Coil Versions

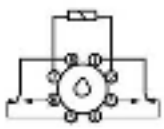
Nominal Voltage VDC	Pull-in Voltage VDC	Release Voltage VDC	Coil Resistance Ω:±10%	Nominal Voltage VAC	Pull-in Voltage VAC	Release Voltage VAC	Coil Resistance Ω:±10%
6	4.8	0.60	22.5	6	4.80	1.80	4.5
12	9.6	1.20	50.6	12	9.60	3.60	18
24	19.2	2.40	90	24	19.2	7.20	72
48	38.4	4.80	810	48	38.4	14.4	288
100	80.0	10.0	7550	110/120	88.0	36.0	1512
110	88.0	11.0	9000	220/240	176	72.0	6050/7200

Dimension.Bottom View

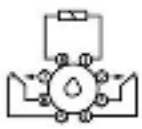




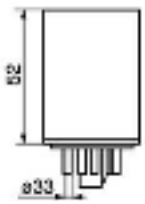
JQX-10F(JTX)

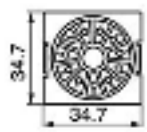


JQX-10F 2Z

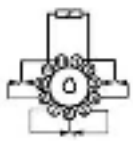


JTX-2C





JQX-10F(JTX)

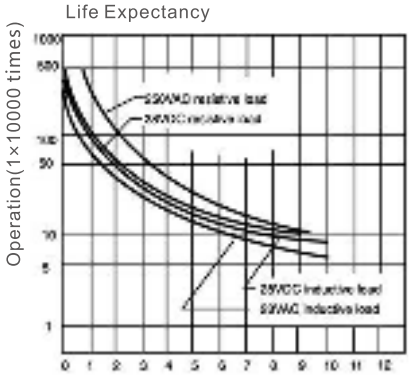


JQX-10F 3Z

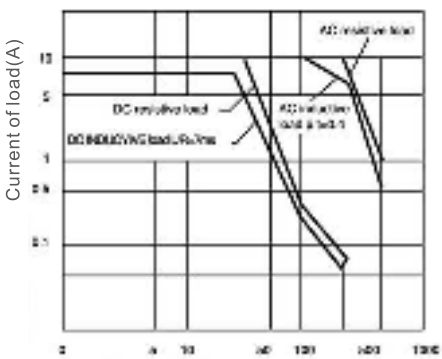
JTX-3C

Reference Data

Life Expectancy



Max.operating power



HH5-P

Series General Purpose Relay

HH5 2P

HH5 3P

HH5 4P

Main technical parameter

Contact Ratings		
Contact Ratings	2Z,2D;3Z,3H,3D	4Z,4H,4D
Contact Resistance	50MΩ(1A 6VDC)	
Contact Material	Silver Alloy	
Contact Capacity	5A/250VAC 28VDC	3A,5A/250VAC 28VDC

Specification

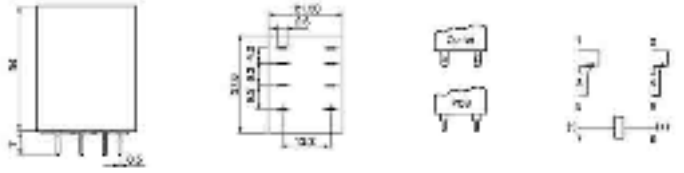
Insulation Resistance	500MΩ,500VDC
Dieletric Strength	BCC 1500V 1 min
	BOC 1000V 1 min
	COC 1500V 1 min
Operate Time	20ms/15ms
Terminal Type	Socket
Norminal Coil Power	0.9W/1.2VA

Coil Versions

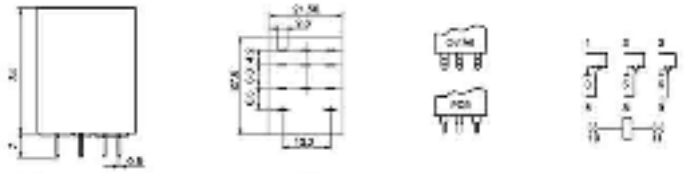
Nominal Voltage VDC	Pull-in Voltage VDC	Release Voltage VDC	Coil Resistance Ω:±10%	Nominal Voltage VAC	Pull-in Voltage VAC	Release Voltage VAC	Coil Resistance Ω:±10%
5	4.8	0.50	30	6	4.80	1.80	12
6	4.8	0.60	40	12	9.60	3.60	42
12	9.6	1.20	160	24	19.2	7.20	168
24	19.2	2.40	640	48	38.4	14.4	675
48	38.4	4.80	2560	110	96.0	36.0	3500
110	88.0	11.0	12100	220/240	176.0	66.0	14000

Dimension.Bottom View

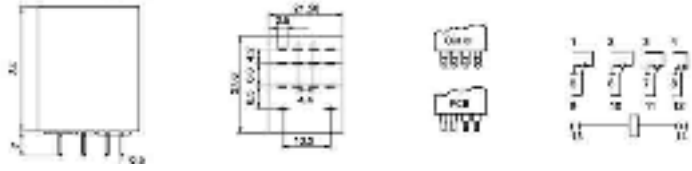
HH5 2P



HH5 3P

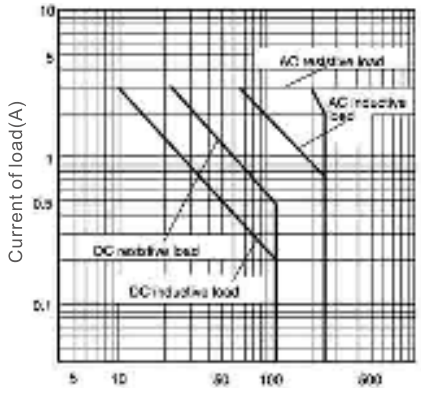


HH5 4P

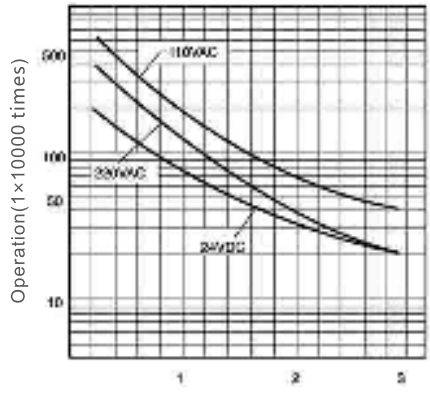


Reference Data

Max.operating power



Life Expectancy



ST3P

Series Timer Relay

Application

ST3P series timer relay mainly applied as time-delay components in the control circuits with AC50/60Hz, rated voltage up to 380V or DC 24V, which makes or breaks the circuit according to the setting time, and features compact design, high accuracy and wide time-delay range.
It can be interchanged with JSZ3 series relay equivalently.

Model No.

ST3P - □ □ □

- □ (third): service voltage: AC220V
- □ (second): timing range: as to Tab-1, Tab-2 below
- □ (first): working mode:
  - **A:** basic (ON delay, multi step)
  - **C:** Instantaneous (ON delay)
  - **F:** OFF delay
  - **Y:** star-delta start delay (ON delay)
  - **R:** cyclic delay (ON delay)
  - **5P:** digital (DIP switch)
- ST3P: timer relay

Normal operating condition and installation condition

3.1 Altitude: less than 2000m
3.2 Ambient temperature: -5℃ ~ +40℃ , average temperature within 24h does not exceed +35℃.
3.3 Relative humidity: less than 50% at +40℃ , higher relative humidity can not be obtained under lower temperature.
3.4 Pollution grade: class III.
3.5 The breaker should be installed at the place without explosive risk and conductive dust, where metal not corroded and insulation not destroyed, and no rain or snow invasion
3.6 Installation category: II.
3.7 Range of source voltage: -25% ~ +55% Ue

Main technical parameter

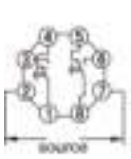
Tab-1

Model	ST3P-A□	ST3P-G□	ST3P-C□	ST3P-F	ST3P-FT1	ST3P-K	ST3P-Y	ST3P-R
Working source	DC24V AC24V 36V 110V 220V 380V 50/60Hz allowed voltage range 85%~110%Ue							
Timing range	A:0.05-0.5s/5s/30s/3min B:0.1-1s/10s/10s/6min C:0.5-5s/50s/5min/30min D:1-10s/100s/10min/60min E:5-60s/10min/60min/6h F:0.25-2min/20min/2h/12h G:0.5-4min/40min/4h/24h			0.1-1s 0.2-2s 0.5-5s 1-10s 2.5-30s 5-60s		0.1-1s 0.25-2s 0.5-5s 1-10s 2.5-30s 5-60s	1-10s 2.5-30s 5-60s	0.1-6s/60s 1-10s/10min 2.5-30s/30min 5-60s/60min
Working mode	ON delay			OFF delay			Star-delta delay	Cyclic delay
Contact quantity	delay 2 transfer		delay 1 transfer Instantaneous 1 transfer	delay 1 transfer	delay 2 transfer	delay 1 transfer	Star-delta transfer Instantaneous 1 NO	delay 1 transfer
Contact capacity	Ue/Ie:AC-15 220V/0.75A,380V/0.47A;DC-13 220V/0.27A;Ith:5A							
Repetitive error	≤1%			≤5%		≤1%		
Mechanical life	1000000 times							
Electrical life	100000 times							
Mounting	surface or flush with different socket; 35mm din-rail							

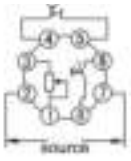
Tab-2

Model	ST3P-5PA	ST3P-5PB	ST3P-5PC	ST3P-5PF	ST3P-5PR
Working source	DC24V AC24V 36V 110V 220V 380V 50/60Hz allowed voltage range 85%~110%Ue				
Timing range	0.1s-99.9s 1s-999s 0.1min-99.9min 1min-999min 0.1h-99.9h 1h-999h 10s-9990s			0.1s-99.9s	0.1s-99.9s 1s-999s 0.1min-99.9min 1min-999min 0.1h-99.9h 1h-999h 10s-9990s
Working mode	ON delay			OFF delay	OFF delay
Contact quantity	delay 2 transfer		delay 1 transfer Instantaneous 1 transfer	delay 1 transfer	delay 1 transfer
Contact capacity	Ue/Ie:AC-15 220V/0.75A,380V/0.47A;DC-13 220V/0.27A;Ith:5A				
Repetitive error	≤1%				
Mechanical life	1000000 times				
Electrical life	100000 times				
Mounting	surface or flush with different socket; 35mm din-rail				

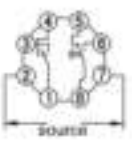
Wiring diagram



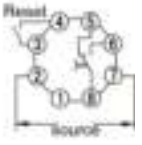
ST3PA ST3PA-5P
ST3PB-5P ST3P-2



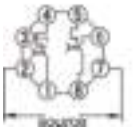
ST3P-AY external
potentiometer



ST3PC ST3P-3
ST3PC-5PC



ST3PF



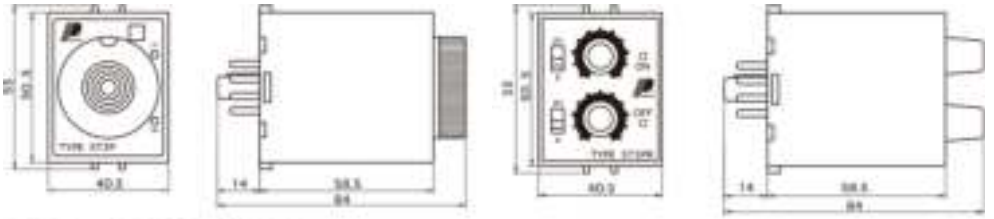
ST3P-FT1 ST3P-G
ST3PF-5PF

ST3P-R
ST3PR-5PR

ST3P-Y

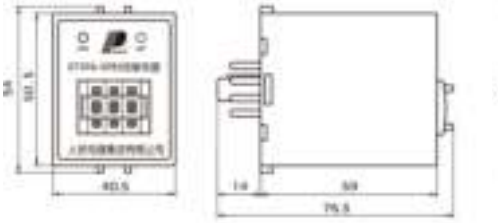
ST3P-K

Outline and dimension

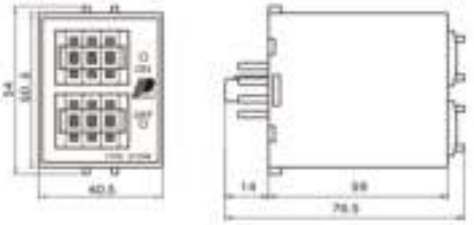


ST3P-A、ST3P-C、ST3P-G、
ST3P-F、ST3P-FT1、ST3P-Y、ST3P-K

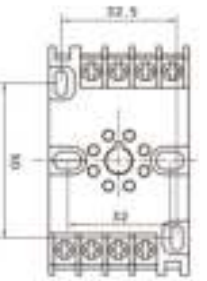
ST3P-R



ST3P-5PA、ST3P-5PB、ST3P-5PC、ST3P-5PF



ST3P-5PR



TP28X socket

KG316T/KG316TX

Series Timer Switch

Application

KG316T series microprocessor timer switch mainly applied in the auto control circuits with AC50/60Hz, rated control voltage up to 220V, to switch on or off the circuits according to the scheduled time, which conforms to IEC60947-5-1 standard.

Model No.

KG - 316 □ □ □

- circuits controlled:
  empty: one circuit controlled
- wiring mode:
  empty: upper wiring
  X: lower wiring
- function code:
  T: general purpose
- design number:
  16: 16 on 16 off
- microprocessor timer switch

Normal operating condition and installation condition

3.1 Altitude: less than 2000m
3.2 Ambient temperature: -5℃ ~ +40℃ , average temperature within 24h does not exceed +35℃.
3.3 Relative humidity: less than 50% at +40℃, higher relative humidity can not be obtained under lower temperature.
3.4 Pollution grade: III.
3.5 Enclosure protection grade: IP20.
3.6 The timer switch should be installed at the place without explosive risk and conductive dust, where metal not corroded and insulation not destroyed, and no rain or snow invasion
3.7 Installation category: II.
3.8 Variation range of power voltage: 85% ~ 110% Ue

Main technical parameter

Rated control voltage: AC220V 50Hz
Conventional thermal current: 20A
Rated service current: AC-15/220V 3A
Timing range: 1min ~ 168h
Accuracy (Timing Error): ≤2 sec everyday
Mechanical life: ≥30,000 times
Electrical life: ≥10,000 times
Mounting: surface or 35mm Din-rail

Wiring mode and diagram

direct control mode
controlled circuit powered by single phase source, service current less than rated value of the switch, can be directly controlled, wiring as to Fig-1.

single phase dilatation mode
controlled circuit powered by single phase source, service current more than rated value of the switch, AC contactor dilatation mode suggested, wiring as to Fig-2.

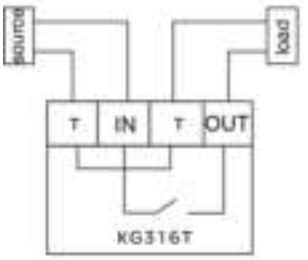


Fig-1 KG316T terminal

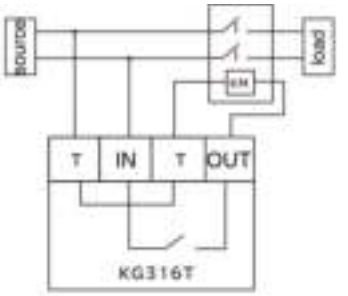


Fig-2 single phase direct control wiring

Three phase control wiring(as to Fig-3, 4)

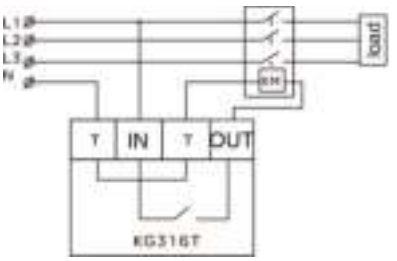


Fig-3 three phase control wiring
(220V contactor coil)

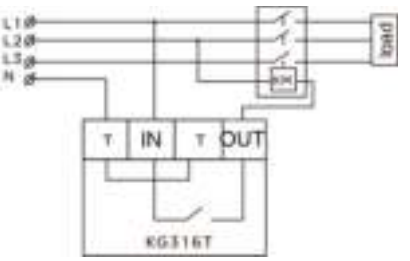
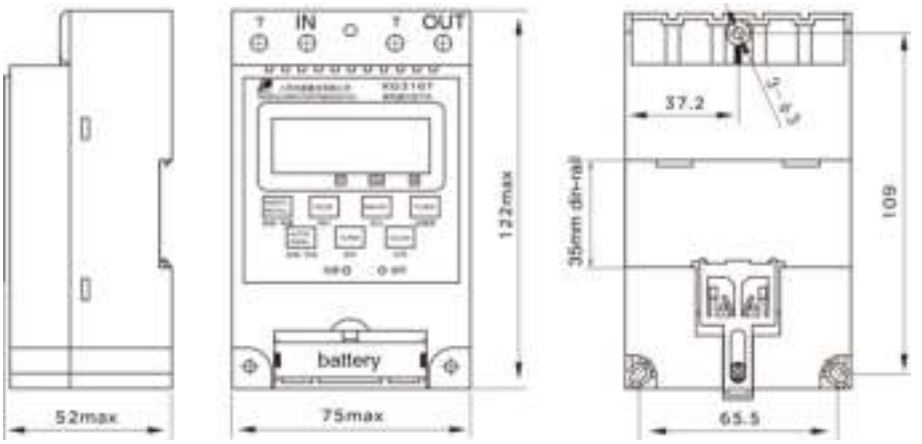


Fig-4 three phase control wiring
(380V contactor coil)

Outline and dimension



KG316T

KG316TX

ALST 8 Series Timer Switch

Model		Alst 8
Contact capacity		AC220V 16A
Full timing range		7m
Contact resistance		≤50mΩ
Insulation resistance		≥100mΩ
Coil voltage		110, 230V AC
Life	electrical	100000 times
	mechanical	10000000 times
Operating temperature		-40℃+55℃
Storage battery(working reserve)		---
Min. setting unit		0.5 minutes
Setup times		1M, 1.5M, 2M, 2.5M, 3M, 3.5M, 4M, 4.5M, 5M, 5.5M, 6M, 6.5M, 7M

THC15A Series Timer Switch

Model		THC15A
Contact capacity		AC250V 16A
Contact form		1Z
Full timing range		Per week or per day cycle
Rated voltage		AC220V 50/60Hz 85%~110%
Accuracy		≤2s/day
Display		LCD
Mounting		Din-rail
Life	electrical	100000 times
	mechanical	10000000 times
Operating temperature		-20℃+55℃
Programmable		16 times/ week or day
Work mode		15 days
Classification		Weekly programmable electronic timer
Dimensions(mm)		81x36x66

TB35 Series Timer Switch

Model		TB35
Contact capacity		AC220V 10A
Full timing range		24h
Contact resistance		≤50mΩ
Insulation resistance		≥100mΩ
Coil voltage		100~240V AC
Life	electrical	100000 times
	mechanical	10000000 times
Operating temperature		-40℃ ~ +55℃
Storage battery(working reserve)		100h
Min. setting unit		15 minutes
Setup times		15m/per times 96times

TB353 Series Timer Switch

Model		TB353
Contact capacity		AC220V 10A
Full timing range		24h
Contact resistance		≤50mΩ
Insulation resistance		≥100mΩ
Coil voltage		100~240V AC
Life	electrical	100000 times
	mechanical	10000000 times
Operating temperature		-40℃ ~ +55℃
Storage battery(working reserve)		100h
Min. setting unit		15 minutes
Setup times		15m/per times 96times

ALC18 Series Timer Switch

Model		ALC18
Contact capacity		AC220V 16A
Full timing range		20m
Contact resistance		≤50mΩ
Insulation resistance		≥100mΩ
Coil voltage		110, 230V AC
Life	electrical	100000 times
	mechanical	10000000 times
Operating temperature		-40℃ ~ +55℃
Storage battery(working reserve)		--
Min. setting unit		0.5 minutes
Setup times		0.5M, 5M, 10M, 15M, 20M

SUL180a/SUL160a Series Timer Switch

Model		SUL180a	SUL160a
Contact capacity		AC220V 16A	
Full timing range		24h	
Contact resistance		≤50mΩ	
Insulation resistance		≥100mΩ	
Coil voltage		110, 230V AC	
Life	electrical	100000 times	
	mechanical	10000000 times	
Operating temperature		-10℃ ~ +55℃	
Storage battery(working reserve)		100h	without battery
Min. setting unit		15 minutes	
Setup times		15m/per times 96 times	

SUL181h/SUL161h Series Timer Switch

Model		SUL181h	SUL161h
Contact capacity		AC220V 16A	
Full timing range		24h	
Contact resistance		≤50mΩ	
Insulation resistance		≥100mΩ	
Coil voltage		110, 230V AC	
Life	electrical	100000 times	
	mechanical	10000000 times	
Operating temperature		-40℃ ~ +55℃	
Storage battery(working reserve)		100h	without battery
Min. setting unit		30 minutes	
Setup times		30m/per times 48 times	

SUL181d/SUL161d Series Timer Switch

Model		SUL181d	SUL161d
Contact capacity		AC220V 16A	
Full timing range		24h	
Contact resistance		≤50mΩ	
Insulation resistance		≥100mΩ	
Coil voltage		110, 230V AC	
Life	electrical	100000 times	
	mechanical	10000000 times	
Operating temperature		-40℃ ~ +55℃	
Storage battery(working reserve)		100h	without battery
Min. setting unit		30 minutes	
Setup times		30m/per times 48 times	

RDA2(PXB2)

Push Button Series

Compliance Standards

Model	Intern ational Standard	National Standard
RDA2	IEC-60947-5-1	GB/T14048.5

Application Scope

RDA2 push button switches are applicable to control circuits with AC 50/60Hz, rated working voltage of 380V or DC rated working voltage of 220V, for controlling, contactors, relays, electrom agnetic switches or converting working signals For push buttons with signal lamps, the signal lamp is inst alled at the neck of the button , and the button head also serves as the lampshade of the signal lamp, and different colors are used to distinguish signals.

Selection Guide

RDA2	B	A	2	1	2
Model	Material Classification	Derived Varieties	Button Color	Voltage with Lamp	Contact Combination
Push Button Switch	B: Metal E: Plastic	A: Flat Button AZ: Flat Button with Self-locking W3: Flat Button with Lamp W3Z: Flat Button with Lamp and Self-locking See Table 1	1. White 2. Black 3. Green 4. Red 5. Yellow 6. Blue	Voltage wit hout Lamp: Empty 1:AC/DC6V 2:AC/DC12V 3:AC/DC24V 4:AC/DC36V 5:AC/DC48V 6:AC/DC110V 7:DC220V 8:AC220V 9:AC380V	1: 1 NO 2:1 NC 3: 2 NO 4:2 NC 5: 1 NO+1NC 101:1 NO Contact Group 102:1 NC Contact Group See Page 2 for Details

Table 1

Derived Varieties	Meaning	Derived Varieties	Meaning	Derived Varieties	Meaning
A	Flat Button	J2	Long-handle Knob with2-position Locking	Y42	Key Button with2-position Reset(Middle pull-out)
AZ	Flat Button with Self-locking	J3	Long-handle Knob with3-position Locking	Y52	Key Button with3-position Reset(Middle pull-out)
W3	Flat Button with Lamp	J4	Long-handle Knob with2-position Reset	Y63	Key Button with3-position Left Reset (Middle pull-out)
W3Z	Flat Button with Lamp and Self-locking	J5	Long-handle Knob with3-position Reset	GA	High-head Flat Button
D2	Knob with 2-position Locking	J6	Long-handle Knob with2-position Left Reset	C	∅ 40 Mushroom-head Self-reset Button
D3	Knob with 3-position Locking	J7	Long-handle Knob with3-position Right	T	∅ 40 Mushroom-head Self-locking Button
D4	Knob with 3-position Reset	J8	Long-handle Knob with3-position Left Reset	R	∅ 60 Mushroom-head Self-reset Button
D5	Knob with 3-position Reset	Y21	Key Button with 2-position Locking (Left-Right Pull-out)	X	∅ 60 Mushroom-head Self-locking Button
D6	Knob with 2-position Left Reset	Y22	Key Button with 2-position Locking (Middle Pull-out)	S5	∅ 40 Emergency Stop Button
D7	Knob with 3-position Right Reset	Y34	Key Button with 2-position Locking (Left-Right Middle Pull-out)	-	-
D8	Knob with 3-position Left Reset	Y35	Key Button with 3-position Locking (Middle Pull-out)	-	-

Basic contact selection table

Basic Contact Selection	1NO	1NC	2NO	2NC	1NO+1NC	1NO Contact Group	1NC Contact Group
Order Selection Code	1	2	3	4	5	101	102

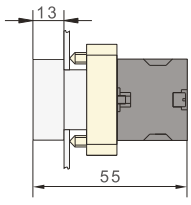
Special Contact Selection Table

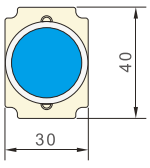
Special Contact Selection	Order Selection Code	Selection Rule Explanation
3NO	3+101	2NO+1NO Contact Group
3NC	4+102	2NO+1NC Contact Group
1NO+2NC	4+101or 5+102	2NC+1NC Contact Group or 1NO1NC+1NC Contact Group
1NO+3NC	4+102+101 or 5+ 102+102	2NC+1NC Contact Group+1NO Contact Group or 1NO1NC+1NC Contact Group+1NC Contact Group
2NO+1NC	3+102 or 5+101	2NO+1NC Contact Group or 1NO1NC+1NO Contact Group
2NO+2NC	3+102+102 or 5+101+102	2NO+1NC Contact Group+1NC Contact Group or 1NO1NC+1NO Contact Group+1NC Contact Group etc.
2NO+3NC	3+102+102+102 or 5+101+102+102	2NO+1NC Contact Group+1NC Contact Group+1NC Contact Group or 1NO1NC+1NO Contact Group+1NC Contact Group+ 1NC Contact Group
3NO+1NC	3+101+102 or 5+101+101	2NO+1NO Contact Group+1NC Contact Group or 1NO1NC+1NO Contact Group+1NO Contact Group etc.
3NO+2NC	3+101+102+102 or 5+101+101+102	2NO+1NC Contact Group+1NC Contact Group+1NC Contact Group or 1NO1NC+ 1NO Contact Group+1NO Contact Group+1NC Contact Group etc.
3NO+3NC	3+101+102+102+102 or 5+101+101+102+102	2NO+1NO Contact Group+1NC Contact Group+1NC Contact Group+1NC Contact Group or 1NO1NC+1NO Contact Group+1NO Contact Group+1NC Contact Group+1NC Contact Group etc.

Flat Button Selection Table

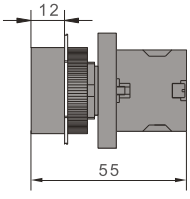
RDA2	B	A	2	2
Model	Material Classification	Derived Varieties	Button Color	Contact Combination
Push Button Switch	B: Metal E: Plastic	A: Flat Button	1. White 2. Black 3. Green 4. Red 5. Yellow 6. Blue	1: 1 NO 2: 1 NC 3: 2 NO 4: 2 NC 5: 1 NO1NC 101:1 NO Contact Group 102:1 NC Contact Group Special models see Page 184

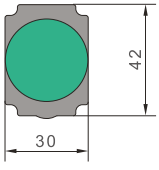
Outline Drawings and Dimensions





Order Model	Meaning
RDA2-BA11	White Metal Flat Button ,1 NO
RDA2-BA22	Black Metal Flat Button ,1 NC
RDA2-BA33	Green Metal Flat Button ,2 NO
RDA2-BA44	Red Met al Flat Button ,2 NC
RDA2-BA55	Yellow Metal Flat Button ,1 NO1NC
RDA2-BA66+102	Blue Metal Flat Button ,1 NO+2 NC 102



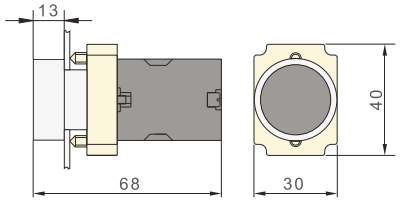


Order Specific ation	Meaning
RDA2-EA11	White Metal Flat Button ,1 NO
RDA2-EA22	Black Metal Flat Button ,1 NC
RDA2-EA33	Green Metal Flat Button ,2 NO
RDA2-EA44	Red Met al Flat Button ,2 NC
RDA2-EA55	Yellow Metal Flat Button ,1 NO1NC
RDA2-EA65+102	Blue Metal Flat Button ,1 NO+2 NC

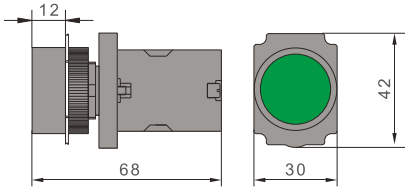
Flat Button with Self-Lock

RDA2	B	A	2	2
Model	Material Classification	Derived Varieties	Button Color	Contact Combination
Push Button Switch	B: Metal E: Plastic	AZ: Flat Button with Self-locking	1. White 2. Black 3. Green 4. Red 5. Yellow 6. Blue	1: 1NO 2: 1 NC 3: 2 NO 4: 2NC 5: 1NO1NC 101:1NO Contact Group 102:1NC Contact Group Special models see Page 184

Outline Drawings and Dimensions



Order Model	Meaning
RDA2-BAZ11	White Metal Flat Button,with Self-Lock, 1 NO
RDA2-BAZ22	Black Metal Flat Button,with Self-Lock, 1 NC
RDA2-BAZ33	Green Metal Flat Button,with Self-Lock, 2 NO
RDA2-BAZ44	Red Metal Flat Button,with Self-Lock, 2 NC
RDA2-BAZ55	Yellow Metal Flat Button,with Self-Lock, 1NO1NC
RDA2-BAZ65+102	Blue Metal Flat Button,with Self-Lock, 1NO2NC

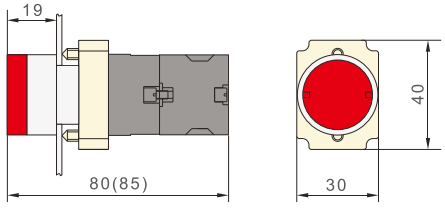


Order Model	Meaning
RDA2-EAZ11	White Plastic Flat Button,with Self-Lock, 1 NO
RDA2-EAZ22	Black Plastic Flat Button,with Self-Lock, 1 NC
RDA2-EAZ33	Green Plastic Flat Button,with Self-Lock, 2 NO
RDA2-EAZ44	Red Plastic Flat Button,with Self-Lock, 2 NC
RDA2-EAZ55	Yellow Plastic Flat Button,with Self-Lock, 1NO1NC
RDA2-EAZ65+102	Blue Metal Flat Button,with Self-Lock, 1NO2NC

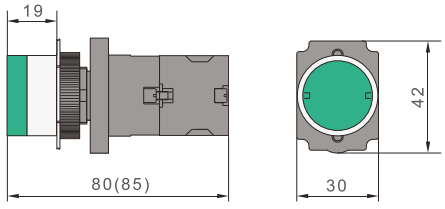
Flat button with lamp

RDA2	B	W3	2	1	2
Model	Material	Derived Varieties	Button Color	Volta of Button with La	Contact Combination
Push Button Switch	B: Metal E: Plastic	W3: Flat Button with Lamp	1. White 2. Black 3. Green 4. Red 5. Yellow 6. Blue	1 : AC/DC6V 2 : AC/DC12V 3 : AC/DC24V 4 : AC/DC36V 5 : AC/DC48V 6 : AC/DC110V 7 : DC220V 8 : AC220V 9 : AC380V	1: 1NO 2: 1 NC 3: 2 NO 4: 2NC 5: 1NO1NC 101:1NO Contact Group 102:1NC Contact Group Special models see Page 184

Outline Drawings and Dimensions



Order Model	Meaning
RDA2-BW3181	White Metal Flat Button,with Lamp AC220 1 NO
RDA2-BW3383	Green Metal Flat Button,with Lamp AC220 2 NO
RDA2-BW3484	Red Metal Flat Button,with Lamp AC220 2 NC
RDA2-BW3585	Yellow Metal Flat Button,with Lamp AC220 1NO1NC
RDA2-BW3685+102	Blue Metal Flat Button,with Lamp AC220 1NO2NC

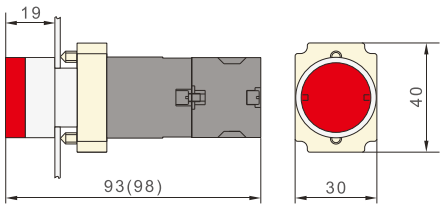


Order Model	Meaning
RDA2-EW3181	White Plastic Flat Button with Lamp, AC220 1NO
RDA2-EW3383	Green Plastic Flat Button with Lamp, AC220 2NO
RDA2-EW3484	Red Plastic Flat Button with Lamp, AC220 2NC
RDA2-EW3585	Yellow Plastic Flat Button with Lamp, AC220 1NO1NC
RDA2-EW3685+102	Blue Plastic Flat Button with Lamp, AC220 1NO2NC

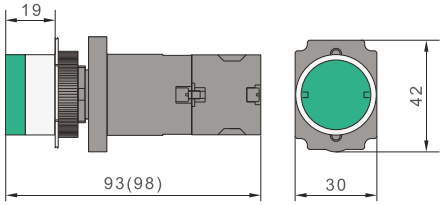
Flat Button with Lamp and Self-Lock

RDA2	B	W3Z	2	1	2
Model	Material Classification	Derived Varieties	Button Color	Voltage of Button with Lamp	Contact Combination
Push Button Switch	B: Metal E: Plastic	W3Z: Flat Button with Lamp and Self-Lock	1. White 2. Black 3. Green 4. Red 5. Yellow 6. Blue	1:AC/DC6V 2:AC/DC12V 3:AC/DC24V 4:AC/DC36V 5:AC/DC48V 6:AC/DC110V 7:DC220V 8:AC220V 9:AC380V	1: 1NO 2: 1 NC 3: 2 NO 4: 2NC 5: 1NO1NC 101:1NO Contact Group 102:1NC Contact Group Special models see Page 184

Outline Drawings and Dimensions



Order Model	Meaning
RDA2-BW3Z181	White Metal Flat Button with Lamp and Self-Lock, AC220 1 NO
RDA2-BW3Z383	Green Metal Flat Button with Lamp and Self-Lock, AC220 2 NO
RDA2-BW3Z484	Red Metal Flat Button with Lamp and , Self-Lock, AC220 2 NC
RDA2-BW3Z585	Yellow Metal Flat Button with Lamp and Self-Lock, AC220 1NO 1NC
RDA2-BW3Z685+102	Blue Metal Flat Button with Lamp and Self-Lock, AC220 1NO 2NC

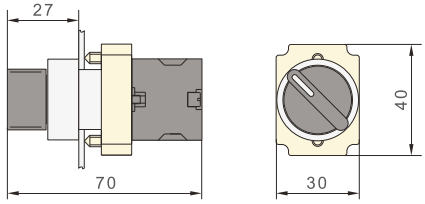


Order Model	Meaning
RDA2-EW3Z181	White Plastic Flat Button with Lamp and Self-Lock, AC220 1 NO
RDA2-EW3Z383	Green Plastic Flat Button with Lamp and Self-Lock, AC220 2 NO
RDA2-EW3Z484	Red Plastic Flat Button with Lamp and , Self-Lock, AC220 2 NC
RDA2-EW3Z585	Yellow Plastic Flat Button with Lamp and Self-Lock, AC220 1NO 1NC
RDA2-EW3Z685+102	Blue Plastic Flat Button with Lamp and Self-Lock, AC220 1NO 2NC

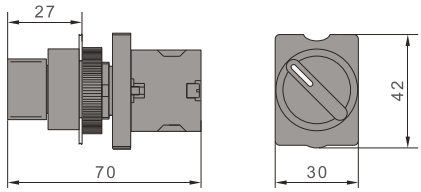
Knob-Selection Rules

RDA2	B	D2	2	2
Model	Material Classification	Derived Varieties	Button Color	Contact Combination
Push Button Switch	B: Metal E: Plastic	D2: Knob with 2-position Locking D3: Knob with 3-position Locking D4: Knob with 2-position Reset D5: Knob with 3-position Reset D6: Knob with 2-position Left Reset D7: Knob with 3-position Right Reset D8: Knob with 3-position Left Reset	2. Black 3. Green 4. Red	1: 1NO 2: 1 NC 3: 2 NO 4: 2NC 5: 1NO1NC 101:1NO Contact Group 102:1NC Contact Group Special models see Page 184

Outline Drawings and Dimensions



Order Model	Meaning
RDA2-BD221	Black Metal Knob with 2-position Locking, 1 NO
RDA2-BD322	Black Metal Knob with 3-position Locking, 1 NC
RDA2-BD433	Green Metal Knob with 2-position Reset, 2 NO
RDA2-BD544	Red Metal Knob with 3-position Reset, 2 NC
RDA2-BD645	Red Metal Knob with 2-position Left Reset, 1NO1NC
RDA2-BD735+102	Green Metal Knob with 3-position Right Reset, 1NO2NC

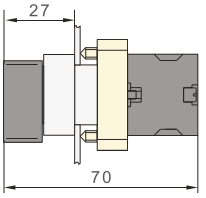


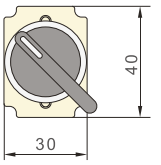
Order Model	Meaning
RDA2-ED221	Black Metal Knob with 2-position Locking, 1 NO
RDA2-ED322	Black Metal Knob with 3-position Locking, 1 NC
RDA2-ED433	Green Metal Knob with 2-position Reset, 2 NO
RDA2-ED544	Red Metal Knob with 3-position Reset, 2 NC
RDA2-ED645	Red Metal Knob with 2-position Left Reset, 1NO1NC
RDA2-ED735+102	Green Metal Knob with 3-position Right Reset,1NO2NC

Long-Handle Knob

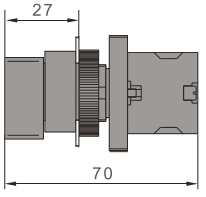
RDA2	B	J2	2	2
Model	Material Classification	Derived Varieties	Button Color	Contact Combination
Push Button Switch	B: Metal E: Plastic	J2: Long-Handle Knob with 2-position Locking J3: Long-Handle Knob with 3-position Locking J4: Long-Handle Knob with 2-position Reset J5: Long-Handle Knob with 3-position Reset J6: Long-Handle Knob with 2- position Left Reset J7: Long-Handle Knob with 3- position Left Reset	2: Black	1: 1 NO 2: 1 NC 3: 2 NO 4: 2 NC 5: 1NO1NC 101:1NO Contact Group 102:1NC Contact Group Special models see Page 184

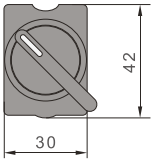
Outline Drawings and Dimensions





Order Selection	Meaning
RDA2-BJ221	Metal Key Button with2- position Locking(Left-Right Pull-out),1 NO
RDA2-BJ322	Metal Key Button wit h 2- position Locking(Left Pull-out),1 NC
RDA2-BJ423	Metal Key Button wit h 3- position Locking(Left Right, Middle Pull-out),2 NO
RDA2-BJ524	Metal Key Button with 3- position Locking (Middle Pull-out),2 NC
RDA2-BJ625	Metal Key Button with 2- position Reset (Left Pull-out),1 NO1NC
RDA2-BJ725+102	Metal Key Button with 3- position Reset (Middle Pull-out),1 NO2NC



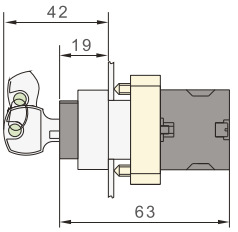


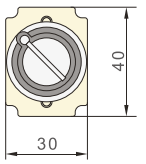
Order Selection	Meaning
RDA2-EJ221	Black Metal Long-Handle Knob with 2- position Locking,1 NO
RDA2-EJ322	Black Metal Long-Handle Knob with 3- position Locking,1 NC
RDA2-EJ423	Black Metal Long-Handle Knob wit h 2- position Reset.2 NO
RDA2-EJ524	Black Metal Long-Handle Knob wit h 3- position Reset,2 NC
RDA2-EJ625	Black Metal Long-Handle Knob wit h 2- position Left Reset.1 NO1NC
RDA2-EJ725+102	Black Metal Long-Handle Knob wit h 3- position Left Reset,1 NO2NC

Key Button

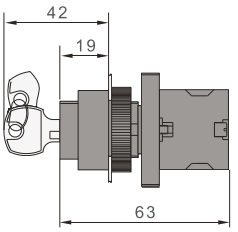
RDA2	B	Y21	2
Model	Material Classification	Derived Varieties	Contact Combination
Push Button Switch	B: Metal E: Plastic	Y21: Key Button with 2-position Locking (Left-Right Pull-out) Y22: Key Button with 2-position Locking (Middle (Left)Pull- out) Y34: Key Button with 3- position Locking (Left, Right,Middle Pull- out) Y35: Key Button with 3- position Locking (Middle Pull- out) Y42: KeyButton with 2-position Reset (Left Pull- out) Y52: KeyButton with 3- position Reset (Middle Pull- out) Y63: Key Button with 3-position Left Reset (Middle Pull- out)	1: 1 NO 2: 1 NC 3: 2 NO 4: 2NC 5: 1NO1NC 101:1NO Contact Group 102:1NC Contact Group Special models see Page 184

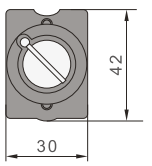
Outline Drawings and Dimensions





Order Selection	Meaning
RDA2-BY211	Metal Key Button with2- position Locking(Left-Right Pull-out),1 NO
RDA2-BY222	Metal Key Button with 2- position Locking(Left Pull-out),1 NC
RDA2-BY343	Metal Key Button with 3- position Locking(Left Right, Middle Pull-out),2 NO
RDA2-BY354	Metal Key Button with 3- position Locking (Middle Pull-out),2 NC
RDA2-BY425	Metal Key Button with 2- position Reset (Left Pull-out),1 NO1NC
RDA2-BY525+102	Metal Key Button with 3- position Reset (Middle Pull-out),1 NO2NC



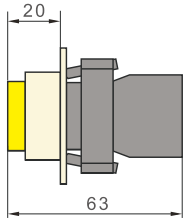


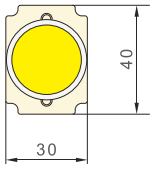
Order Selection	Meaning
RDA2-EY211	Plastic Key Button with2- position Locking (Left-Right Pull-out),1 NO
RDA2-EY222	Plastic Key Button with2- position Locking (Left Pull-out),1 NC
RDA2-EY343	Plastic Key Button with3- position Locking (Left Right, Middle Pull-out),2 NO
RDA2-EY354	Plastic Key Button with 3- position Locking (Middle Pull-out),2 NC
RDA2-EY425	Plastic Key Button with 2- position Reset (Left Pull-out),1 NO 1NC
RDA2-EY525+102	Plastic Key Button with 3- position Reset (Middle Pull-out),1 NO 2NC

High-head Flat Button-Selection Rules

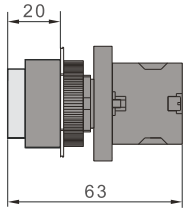
RDA2	B	GA	2	2
Model	Material Classification	Derived Varieties	Button Color	Contact Combination
Push Button Switch	B: Metal E: Plastic	GA: High-head Flat Button	1. White 2. Black 3. Green 4. Red 5. Yellow 6. Blue	1: 1NO 2: 1 NC 3: 2 NO 4: 2NC 5: 1NO1NC 101:1NO Contact Group 102:1NC Contact Group Special models see Page 184

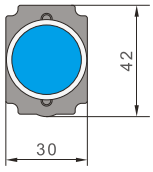
Outline Drawings and Dimensions





Order Selection	Meaning
RDA2-BGA11	Metal White High-head Flat Button 1NO
RDA2-BGA22	Metal Black High-head Flat Button 1NC
RDA2-BGA33	Metal Green High-head Flat Button 2NO
RDA2-BGA44	Metal Red High-head Flat Button , 2NC
RDA2-BGA55	Metal Yellow High-head Flat Button , 1NC1NC
RDA2-BGA65+102	Metal Blue High-head Flat Button 1NC2NC



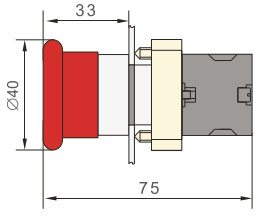


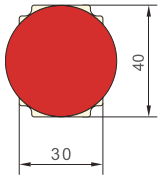
Order Selection	Meaning
RDA2-EGA11	Plastic White High-head Flat Button 1NO
RDA2-EGA22	Plastic Black High-head Flat Button 1NC
RDA2-EGA33	Plastic Green High-head Flat Button 2NO
RDA2-EGA44	Plastic Red High-head Flat Button , 2NC
RDA2-EGA55	Plastic Yellow High-head Flat Button , 1NC1NC
RDA2-BGA65+102	Plastic Blue High-head Flat Button 1NC2NC

∅40 Mushroom Head-Selection Rules

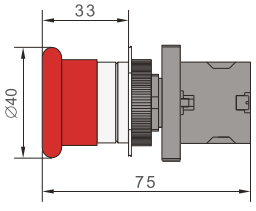
RDA2	B	C	2	2
Model	Material Classification	Derived Varieties	Button Color	Contact Combination
Push Button Switch	B: Metal E: Plastic	C: ∅40 Mushroom Head Self- reset Button T: ∅40 Mushroom Head Self- locking Button	3: Green 4: Red	1: 1NO 2: 1 NC 3: 2 NO 4: 2NC 5: 1NO1NC 101:1NO Contact Group 102:1NC Contact Group Special models see Page 184

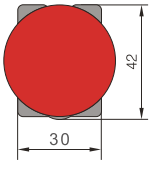
Outline Drawings and Dimensions





Order Selection	Meaning
RDA2-BC31	Metal Green 40 Mushroom Head Self-reset Button ,1 NO
RDA2-BC32	Metal Green 40 Mushroom Head Self-reset Button ,1 NC
RDA2-BC33	Metal Green 40 Mushroom Head Self-reset Button ,2 NO
RDA2-BT41	Metal Red 40 Mushroom Head Self-locking Button ,1 NO
RDA2-BT42	Metal Red 40 Mushroom Head Self-locking Button ,1 NC
RDA2-BT43	Metal Red 40 Mushroom Head Self-locking Button ,2 NO



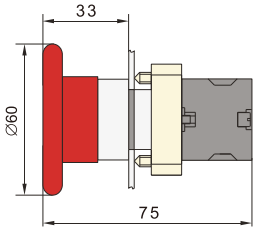


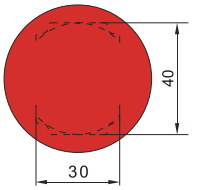
Order Selection	Meaning
RDA2-EC31	Plastic Green 40 Mushroom Head Self-reset Button ,1 NO
RDA2-EC32	Plastic Green 40 Mushroom Head Self-reset Button ,1 NC
RDA2-EC33	Plastic Green 40 Mushroom Head Self-reset Button ,2 NO
RDA2-ET41	Plastic Red 40 Mushroom Head Self-locking Button ,1 NO
RDA2-ET42	Plastic Red 40 Mushroom Head Self-locking Button ,1 NC
RDA2-ET43	Plastic Red 40 Mushroom Head Self-locking Button ,2 NO

∅ 60 Mushroom Head-Selection Rules

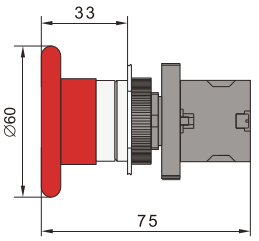
RDA2	B	R	2	2
Model	Material Classification	Derived Varieties	Button Color	Contact Combination
Push Button Switch	B: Metal E: Plastic	R:60 Mushroom Head Self-reset Button X:60 Mushroom Head Self- locking Button	3: Green 4: Red	1: 1 NO 2: 1 NC 3: 2 NO 4: 2 NC 5: 1NO1NC 101:1NO Contact Group 102:1NC Contact Group Special models see Page 184

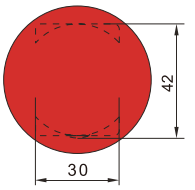
Outline Drawings and Dimensions



Order Selection	Meaning
RDA2-BR31	Metal Green 60 Mushroom Head Self-reset Button , 1 NO
RDA2-BR32	Metal Green 60 Mushroom Head Self-reset Button , 1 NC
RDA2-BR33	Metal Green 60 Mushroom Head Self-reset Button , 2 NO
RDA2-BX41	Metal Red 60 Mushroom Head Self-locking Button , 1 NO
RDA2-BX42	Metal Red 60 Mushroom Head Self-locking Button , 1 NC
RDA2-BX43	Metal Red 60 Mushroom Head Self-locking Button , 2 NO

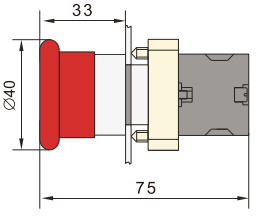


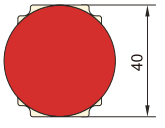
Order Selection	Meaning
RDA2-ER31	Plastic Green 60 Mushroom Head Self - reset Button , 1 NO
RDA2-ER32	Plastic Green 60 Mushroom Head Self - reset Button , 1 NC
RDA2-ER33	Plastic Green 60 Mushroom Head Self - reset Button , 2 NO
RDA2-EX41	Plastic Red 60 Mushroom Head Self-locking Button , 1 NO
RDA2-EX42	Plastic Red 60 Mushroom Head Self-locking Button , 1 NC
RDA2-EX43	Plastic Red 60 Mushroom Head Self-locking Button , 2 NO

Emergency Stop Button-Selection Rules

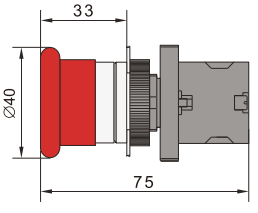
RDA2	B	S5	2
Model	Material Classification	Derived Varieties	Contact Combination
Push Button Switch	B: Metal E: Plastic	S5:40 Emergency Stop Button Emergency stop buttons are only red	1: 1 NO 2: 1 NC 3: 2 NO 4: 2 NC 5: 1NO1NC 101:1NO Contact Group 102:1NC Contact Group Special models see Page 184

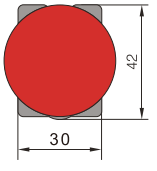
Outline Drawings and Dimensions



Order Selection	Meaning
RDA2-BS51	Metal Red 40 Emergency Stop Button 1NO
RDA2-BS52	Metal Red40 Emergency Stop Button 1NC
RDA2-BS53	Metal Red 40 Emergency Stop Button 2NO
RDA2-BS54	Metal Red 40 Emergency Stop Button 2NC
RDA2-BS55	Metal Red 40 Emergency Stop Button 1NO1NC
RDA2-BS55+102	Metal Red 40 Emergency Stop Button 1NO2NC



Order Selection	Meaning
RDA2-ES51	Plastic Red 40 Emergency Stop Button 1NO
RDA2-ES52	Plastic Red40 Emergency Stop Button 1NC
RDA2-ES53	Plastic Red 40 Emergency Stop Button 2NO
RDA2-ES54	Plastic Red 40 Emergency Stop Button 2NC
RDA2-ES55	Plastic Red 40 Emergency Stop Button 1NO1NC
RDA2-ES55+102	Plastic Red 40 Emergency Stop Button 1NO2NC

RDA5(PXB5)

Push Button Series

Compliance with Standards

Model	Nation al Standard
RDA5	GB/T14048 .5

Application Scope

The RDA5 push-button switc h (hereinafter referred to as the button)is suit able for industrial control circuit swith 50/60 Hz. rated working voltage up to 400V and DC working voltage up to 230V. it is used for the control of electrom agnetic starters cont actors ,relays and other electrical circuits.

Normal Operating and Install ationl Conditions

- Ambient Air Temperature :-5~40℃,and the average temper ature value wit hin 24 hours does not exceed 35°C
- Altitude: ≤2000m.
- Air Humidity : When the maximum temperature is +40℃., the relative humidity of the a ir does not exceed 50%.A t lower temper atures ,a higher relative humidity is allowed For example, it reaches 90% at 20℃. Special measures should betaken for condensation occasionally generated due to temper ature changes.
- Pollution Degree: Pollution Degree 3.
- Installation Category: Installation Category II.

Selection Guide

RDA5	A	2	1	1	A5-101
Model	Derivative Type	Button Color	Contact Specification	Voltage with Light	Contact Base Module Code
Push Button Switch	A: Flat Button AZ: Flat Button with Self-locking W3: Flat Button with Light W3Z: Flat Button with Light and Self-locking. See Table 1	1: White 2: Black 3: Green 4: Red 5: Yellow 6: Blue	1: 1NO 2: 1NC 3: 2NO 4: 2NC 5: 1NO+NC	1: 6V 2: 12V 3: 24V 4: 36V 5: 48V 6: 110V 7: DC220V 8: AC220V 9: AC380V	A5-101: 1NO A5-102: 1NC A5-103: 2NO A5-104: 2 NC A5-105: 1NO+1NC

Example:RDA5-SS5.Its meaning:RDA5-Normally Open-Normally Closed Emergency Stop Butto.
RDA5-D524 + A S105. Its meaning: RDA5- Normally Open and Three Normally C losed Black Three- position Self-reset Knob. A mong them,"A S105" is the code for one normally open and one normally closed cont act module.

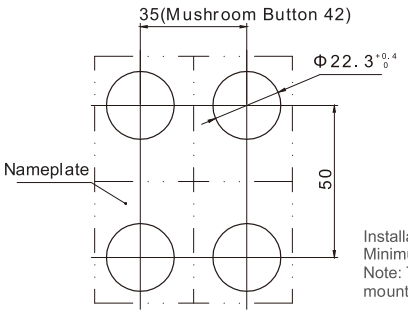
Table 1

Derivative Type	Meaning	Derivative Type	Meaning	Derivative Type	Meaning
A	Self-reset Flat Button	J2	Two-position Indexing Long-handle Knob	G0	Three-position Indexing Key Button , Key Temporarily Pullable at Each Position
AZ	Self-locking Flat Button	J4	Two-position Self-reset Long-handle Knob	G1	Three-position Indexing Key Button , Key Pulled out from Left
G	Self-reset Convex Butto	J3	Three-position Indexing Long-handle Knob	G3	Three-position Indexing Key Button , Key Pulled out from Middle
GZ	Self-locking Convex Button	J5	Three-position Self-reset Long-handle Knob	G5	Three-position Indexing Key Button , Key Pulled out from Left and Right
C	Self-reset Mushroom Button	J7	Three-position Left Self-reset & Right Indexing Long-handle Knob	G7	Three-position Indexing Key Button , Key Pulled out from Middle
T	Self-locking Mushroom Button	W3	Self-reset Flat Button with Light	B	Double-key Self-reset Button
D2	Two-position Indexing Knob	W3Z	Self- locking Flat Button with Light	BD	Double-k ey Self-reset Button with Light
D4	Two-position Self-reset Knob	S5	Emergency Stop Button		
D3	Three-position Indexing Knob	G2	Two-position Indexing Key Button ,Key Pulled out from Left		
D5	Three-position self-reset Knob	G4	Two-position Indexing Key Button ,Key Pulled out from Right		
D7	Three-position Left self-reset & Right Indexing long-ha ndle Knob	G6	Two-position Self-reset Key Button , Key Pulled out from Left		

Main Technical Parameters

Rated Working Voltage Ue	AC400V , DC230V
Conventional Free-air Heating Current Ith	10A
Rated Insulation Voltage Ui	500V
Use Category and Rated Working Current	AC-15: 400V/3A , DC-13: 230V/0.6A
Protection Grdea	IP40
Electrical Life	≥100,000times
Mechanical Life	Emergency stop button≥300,000 times, ot hers ≥1,000,000 times
Bead	Voltage-AC/DC: 6V, 12V, 24V, 36V, 48V, 110V, DC220V, AC: 220V, 380V

Installation Dimensions

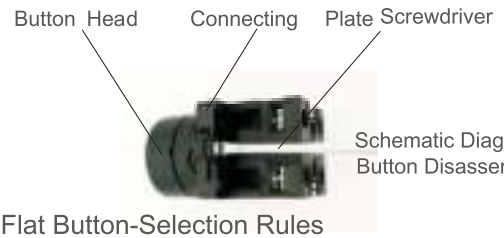


Installation Hole Dimensions and Minimum Installation Spacing
Note: The thickness of the mounting plate is 1-3.5mm

Marking and Identification of Terminals

- Terminals are identified with two-digit numbers
  - The digit in the units placeis the function digit;
  - The digit in the tens place is the sequence number.
- Function Digits
  Function digits 1and 2 a reused for breaking cont act elements (a lso known as normally closed cont acts),and function digits 3 and 4 are used for making contact elements (also k nown as norm ally open contacts).
- Sequence Numbers
  Termin als belonging to the same contact element should be marked with the same sequence number
- Marking of Termin als for Illumin ated Push-button Switches
  The two terminals of the signal lamp should be marked X1 and X2

Disassembly of Button Head and Switch Base Connecting Plate



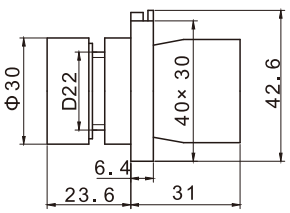
Schematic Diagram of Button Disassembly

Insert a small flathead screwdriver or similar object into the arched space of the connecting plate. Use the lever principle to press down the screwdriver and pull out the button head at the same time.

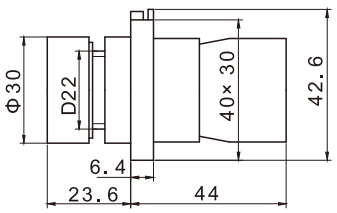
Flat Button-Selection Rules

RDA5	A	2	1
Model	Derivative Type	Button Color	Contact Specification
Push Button Switch	A: Flat Button AZ: Flat Button with Self-locking	1: White 2: Black 3: Green 4: Red 5: Yellow 6: Blue	1: 1NO 2: 1NC 3: 2NO 4: 2NC 5: 1NO+1NC

Outline Drawing and Dimensions



Order Model	Meaning
RDA5-A11	White Flat Button , 1 NO
RDA5-A12	White Flat Button , 1 NC
RDA5-A21	Black Flat Button , 1 NO
RDA5-A22	Black Flat Button , 1 NC
RDA5-A31	Green Flat Button , 1 NO
RDA5-A33	Green Flat Button , 2 NO



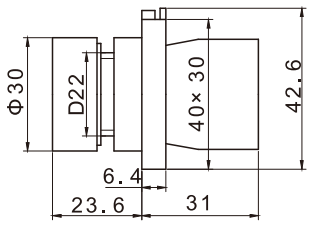
Order Model	Meaning
RDA5-AZ11	White Flat Button wit h Self- locking, 1 NO
RDA5-AZ12	White Flat Button wit h Self- locking, 1 NC
RDA5-AZ21	Black Flat Button wit h Self- locking, 1 NO
RDA5-AZ22	Black Flat Button wit h Self- locking, 1 NC
RDA5-AZ31	Green Flat Button wit h Self- locking, 1 NO
RDA5-AZ33	Green Flat Button wit h Self- locking, 2 NO

PUSH BUTTON

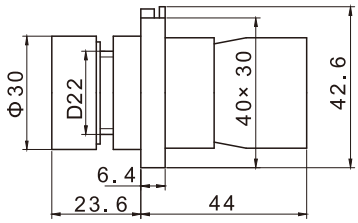
Flat Button-Selection Rules

RDA5	A	2	1
Model	Derivative Type	Button Color	Contact Specification
Push Button Switch	A: Flat Button AZ: Flat Button with Self-locking	1: White 2: Black 3: Green 4: Red 5: Yellow 6: Blue	1: 1NO 2: 1NC 3: 2NO 4: 2NC 5: 1NO+1NC

Outline Drawing and Dimensions



Order Model	Meaning
RDA5-A11	White Flat Button , 1 NO
RDA5-A12	White Flat Button , 1 NC
RDA5-A21	Black Flat Button , 1 NO
RDA5-A22	Black Flat Button , 1 NC
RDA5-A31	Green Flat Button , 1 NO
RDA5-A33	Green Flat Button , 2 NO



Order Model	Meaning
RDA5-AZ11	White Flat Button wit h Self- locking, 1 NO
RDA5-AZ12	White Flat Button wit h Self- locking, 1 NC
RDA5-AZ21	Black Flat Button wit h Self- locking, 1 NO
RDA5-AZ22	Black Flat Button wit h Self- locking, 1 NC
RDA5-AZ31	Green Flat Button wit h Self- locking, 1 NO
RDA5-AZ33	Green Flat Button wit h Self- locking, 2 NO

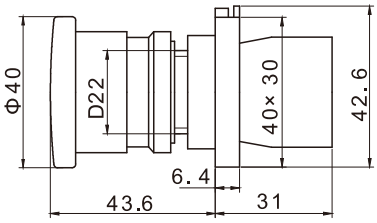
Mushroom Button-Selection Rules

RDA5	C	3	1
Model	Derivative Type	Button Color	Contact Specification
Push Button Switch	C: Self-reset Mushroom Button T:Self-locking Mushroom Button	3: Green 4: Red 5: Yellow 6: Blue	1: 1NO 2: 1NC 3: 2NO 4: 2NC 5: 1NO+1NC

Outline Drawing and Dimensions

RDA5-C: Self-reset Mushroom Button

RDA5-T: Self-locking Mushroom Button

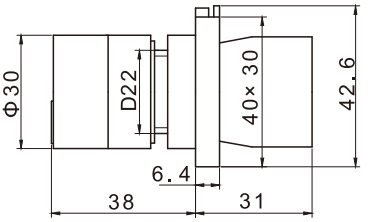


Order Model	Meaning
RDA5-C31	Green Self- reset Mushroom Button , 1 NO
RDA5-C32	Green Self- reset Mushroom Button , 1 NC
RDA5-C43	Red Self- reset Mushroom Button , 2 NO
RDA5-T44	Red Self- locking Mushroom Button , 2 NC
RDA5-T55	Yellow Self- locking Mushroom Button , 1NO1NC
RDA5-T61	Blue Self- locking Mushroom Button , 1 NO

Knob-Selection Rules

RDA5	D2	2	1
Model	Derivative Type	Button Color	Contact Specification
Push Button Switch	D2:Two-position Indexing Knob D4:Two-position Self-reset Knob D3:Three- position Indexing Knob D5:Three- position Self-reset Knob D7:Three-position Left Self-reset & Right Indexing Knob	2: Black 3: Green 4: Red	1: 1NO 2: 1NC 3: 2NO 4: 2NC 5: 1NO+1NC

Outline Drawing and Dimensions

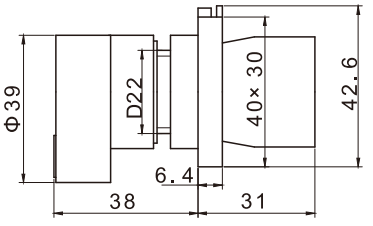


Order Model	Meaning
RDA5-D221	Black Two-position Indexing Knob, 1NO
RDA5-D222	Black Two-position Indexing Knob, 1NC
RDA5-D433	Green Two-position Self-reset Knob, 2NO
RDA5-D334	Green Three-position Indexing Knob, 2NC
RDA5-D545	Red Three-position Self-reset Knob, 1NO1NC
RDA5-D741	Red Three-position Left Self-reset & Right Indexing Knob, 1NO

Long-Handle Knob-Selection Rules

RDA5	J2	2	1
Model	Derivative Type	Button Color	Contact Specification
Push Button Switch	J2:Two-position Indexing Long-Handle Knob J4:Two-position Self-reset Long-Handle Knob J3:Three-position Indexing Long-Handle Knob J5:Three-position Self-reset Long-Handle Knob J7:Three-position Left Self- reset & Right Indexing Long-Handle Knob	2: Black 3: Green 4: Red	1: 1NO 2: 1NC 3: 2NO 4: 2NC 5: 1NO+1NC

Outline Drawing and Dimensions

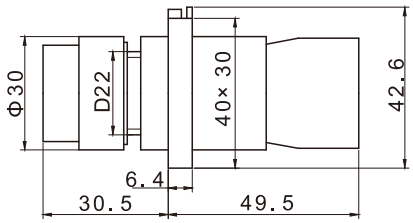


Order Model	Meaning
RDA5-J221	Black Two- position Indexing L ong- Handle Knob, 1 NO
RDA5-J222	Black Two- position Indexing L ong- Handle Knob, 1 NC
RDA5-J421	Black Two- position Self- reset L ong- Handle Knob, 1NO
RDA5-J331	Green Three- position Indexing L ong- Handle Knob, 1NO
RDA5-J532	Green Three- position Self- reset L ong- Handle Knob, 1NC
RDA5-J741	Red Three- position L eft Self- reset & Right Indexing Long- Handle Knob, 1 NO

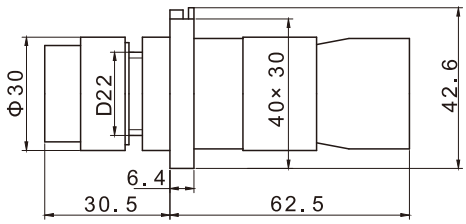
Illuminated Flat Button-Selection Rules

RDA5	W3	2	1	1
Model	Derivative Type	Button Color	Contact Specification	Voltage with Light
Push Button Switch	W3: Self-reset Illuminated Flat Button W3Z: Self-locking Illuminated Flat Button	1: White 3: Green 4: Red 5: Yellow 6: Blue	1: 1NO 2: 1NC 3: 2NO 4: 2NC 5: 1NO+1NC	1: 6V 2: 16V 3: 24V 4: 36V 5: 48V 6: 110V 7: DC220V 8: AC220V 9: AC380V

Outline Drawing and Dimensions



Order Model	Meaning
RDA5-W3131	White Self-reset Illuminated Flat Button, 6V, 2 NO
RDA5-W3122	White Self-reset Illuminated Flat Button, 16V, 1 NC
RDA5-W3513	Yellow Self-reset Illuminated Flat Button, 24V, 1 NO
RDA5-W3314	Green Self-reset Illuminated Flat Button, 36V, 1 NO
RDA5-W3325	Green Self-reset Illuminated Flat Button, 48V, 1 NC
RDA5-W3426	Red Self-reset Illuminated Flat Button, 110V, 1 NC

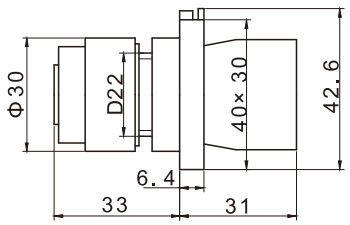


Order Model	Meaning
RDA5-W3Z132	White Self-locking Illuminated Flat Button, 16V, 2 NO
RDA5-W3Z125	White Self-locking Illuminated Flat Button, 48V, 1 NC
RDA5-W3Z516	Yellow Self-locking Illuminated Flat Button, 110V, 1 NO
RDA5-W3Z318	Green Self-locking Illuminated Flat Button, AC220V, 1 NO
RDA5-W3Z329	Green Self-locking Illuminated Flat Button, AC380V, 1 NC
RDA5-W3Z423	Red Self-locking Illuminated Flat Button, 24V, 1 NC

Key Button-Selection Rules

RDA5	Y2	1
Model	Derivative Type	Contact Specification
Push Button Switch	Y2: Two-position Indexing Key Button, Key Pulled out from Left Y4: Two-position Indexing Key Button, Key Pulled out from Left and Right Y6: Two-position Self-reset Key Button, Key Pulled out from Left Y0: Three-position Indexing Key Button, Key Pullable at Each Position Y1: Three-position Indexing Key Button, Key Pulled out from Left Y3: Three-position Indexing Key Button, Key Pulled out from Middle Y5: Three-position Indexing Key Button, Key Pulled out from Left and Right Y7: Three-position Self-reset Key Button, Key Pulled out from Middle	1: 6V 2: 16V 3: 24V 4: 36V 5: 48V 6: 110V 7: DC220V 8: AC220V 9: AC380V

Outline Drawing and Dimensions

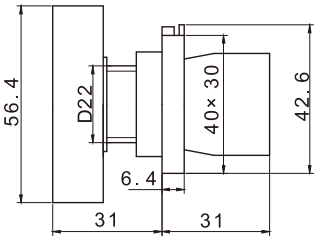


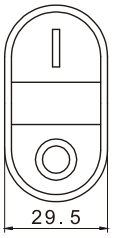
Order Model	Meaning
RDA5-Y21	Two-position Indexing Key Button, Key Pulled out from Left, 1 NO
RDA5-Y42	Two-position Indexing Key Button, Key Pulled out from Left and Right, 1 NC
RDA5-Y61	Two-position Self-reset Key Button, Key Pulled out from Left, 1 NO
RDA5-Y03	Three-position Indexing Key Button, Key Pullable at Each Position, 2 NO
RDA5-Y14	Three-position Indexing Key Button, Key Pulled out from Left, 2 NC
RDA5-Y35	Three-position Indexing Key Button, Key Pulled out from Middle, 1 NO1NC

Double-Key Button-Selection Rules

RDA5	B	1
Model	Derivative Type	Contact Specification
Push Button Switch	B: D ouble - Key Self-reset Button BD: D ouble - Key Self-reset Illumin	5: 1 NO+1NC

Outline Drawing and Dimensions



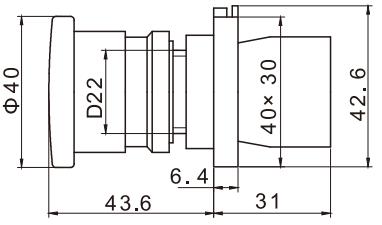


Order Model	Meaning
RDA5-B5	Dou ble-Key Self -r eset Bu tton, 1NO1NC
RDA5-BD5	Dou ble-Key Self -r eset Illu minated Bu tton, 1NO1NC

Emergency Stop Button-Selection Rules

RDA5	S5	1
Model	Derivative Type	Contact Specification
Push Button Switch	S5: Emergency Stop Button	2: 1NC 4: 2NC 5: 1NO+1NC

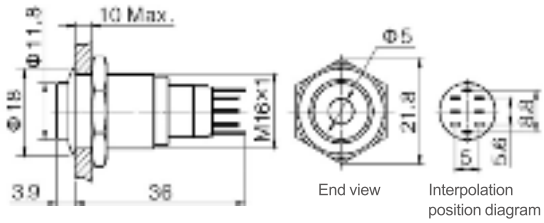
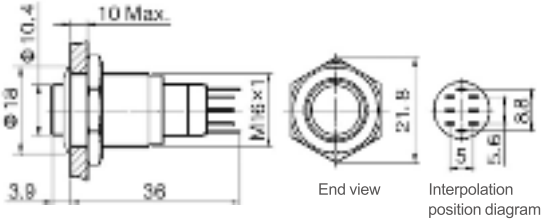
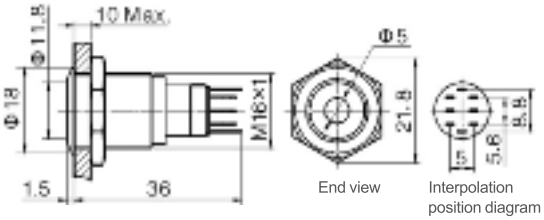
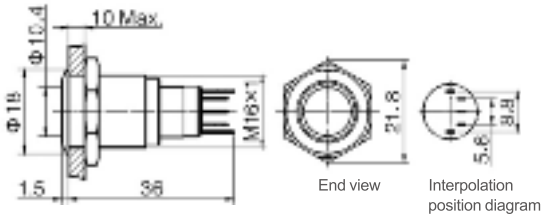
Outline Drawing and Dimensions



Order Model	Meaning
RDA5-S52	Emergency Stop Button , 1NC
RDA5-S54	Emergency Stop Button , 2NC
RDA5-S55	Emergency Stop Button , 1NO1NC

MP016S

Mental Push Button Series

Photo	Parameter	Contour
 MP016S/H11-△▲D	Metal point light button switch Mounting hole dimension: φ16mm Switch rating:3A/250VAC Switch combination:1NO1NC/2NO2NC Operation types: nonstick / Self-lock Head shape: high discoid Shell material: stainless steel/nickel-plated brass Lamp mode: single point IP grade: IP40/IP67	
 MP016S/H11-△▲E	Metal point light button switch Mounting hole dimension: φ16mm Switch rating:3A/250VAC Switch combination:1NO1NC/2NO2NC Operation types: nonstick / Self-lock Head shape: high discoid Shell material: stainless steel/ nickel-plated brass Lamp mode: Ring IP grade: IP40/IP67	
 MP016S/F11-△▲D	Metal point light button switch Mounting hole dimension: φ16mm Switch rating:3A/250VAC Switch combination:1NO1NC/2NO2NC Operation types: nonstick / Self-lock Head shape: discoid Shell material: stainless steel/ nickel-plated brass Lamp mode: single point IP grade: IP40/IP67	
 MP016S/F11-△▲E	16mm Ring button switch with lamp Mounting hole dimension: φ16mm Switch rating:3A/250VAC Switch combination:1NO1NC/2NO2NC Operation types: nonstick / Self-lock Head shape: high discoid Shell material: stainless steel/ nickel-plated brass Lamp mode: Ring IP grade: IP40/IP67	

MP016S

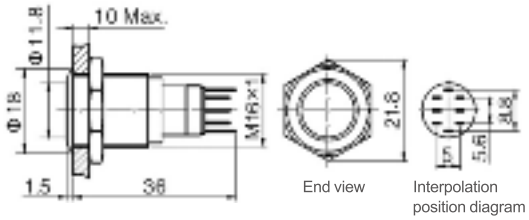
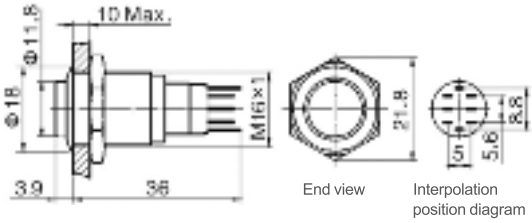
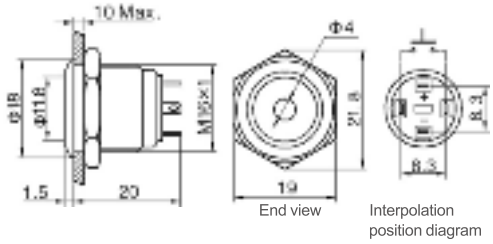
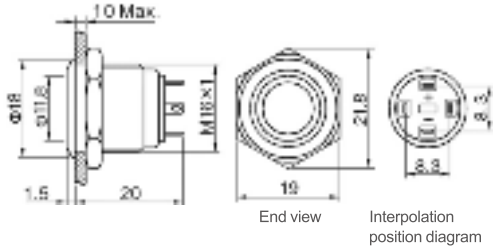
Mental Push Button Series

Specification		MP016S/H11-△▲D	MP016S/H11-△▲E	MP016S/F11-△▲D	MP016S/F11-△▲E
The front shape		High discoid	High discoid	Discoid	High discoid
Terminal type		Connection insert(1.8×0.4mm)	Connection insert(1.8×0.4mm)	Connection insert(1.8×0.4mm)	Connection insert(1.8×0.4mm)
Switching		No.3	No.3	No.3	No.3
Max. switch rating		3A/250VAC	3A/250VAC	3A/250VAC	3A/250VAC
Contact resistance		≤50mΩ	≤50mΩ	≤50mΩ	≤50mΩ
Insulation resistance		≥1000mΩ	≥1000mΩ	≥1000mΩ	≥1000mΩ
Dielectric intensity		2000VAC	2000VAC	2000VAC	2000VAC
Operating temp		- 20℃~ + 55℃	- 20℃~ + 55℃	- 20℃~ + 55℃	- 20℃~ + 55℃
Mechanical life		More than one million times	More than one million times	More than one million times	More than one million times
Electrical life		More than 200thousand times	More than 200thousand times	More than 200thousand times	More than 200thousand times
Panel thickness		1-10mm	1-10mm	1-10mm	1-10mm
Torque		5-14Nm	5-14Nm	5-14Nm	5-14Nm
Operation pressure		2.5-4Nm	2.5-4Nm	2.5-4Nm	2.5-4Nm
Operation travel		About 2.8mm	About 2.8mm	About 2.8mm	About 2.8mm
IP degree		IP40/IP67	IP40/IP67	IP40/IP67	IP40/IP67
Materia	Contact	Silver alloy	Silver alloy	Silver alloy	Silver alloy
	Button	Stainless steel/ nickel-plated brass	Stainless steel/ nickel-plated brass	Stainless steel/ nickel-plated brass	Stainless steel/ nickel-plated brass
	Body				
	Base	PBT	PBT	PBT	PBT
	RoHs	Customizable	Customizable	Customizable	Customizable
LED spec.	Lamp type	Single point (LED)	Ring (LED)	Single point (LED)	Ring (LED)
	Rated voltage(Ue)		6V/12V/24V/110V/220V	6V/12V/24V/110V/220V	6V/12V/24V/110V/220V
	Color		R G Y O B W	R G Y O B W	R G Y O B W
	Life		4000hours	4000hours	4000hours

Note:△for voltage, ▲ for color,◎for terminal.

MP016S

Mental Push Button Series

Photo	Parameter	Contour
 MP016S/F11Z	Metal button switch Mounting hole dimension: φ16mm Switch rating: 3A/250VAC Switch combination: 1NO1NC/2NO2NC Operation types: nonstick / self-lock Head shape: discoid Shell material: stainless steel/ brass chrome plating IP grade: IP40/IP67	
 MP016S/H11Z	Metal button switch Mounting hole dimension: φ16mm Switch rating: 3A/250VAC Switch combination: 1NO1NC/2NO2NC Operation types: nonstick / self-lock Head shape: high discoid Shell material: stainless steel/ brass chrome plating IP grade: IP40/IP67	
 MP016S/F2J-△▲D	φ16 Angle metal button switch with lamp Mounting hole dimension: φ16mm Switch rating: 3A/250VAC Switch combination: 1NO Operation types: nonstick Head shape: discoid Shell material: stainless steel/ brass chrome plating Lamp mode: single point IP grade: IP65	
 MP016S/F2J-△▲E	φ16 Angle metal button switch with lamp Mounting hole dimension: φ16mm Switch rating: 3A/250VAC Switch combination: 1NO Operation types: nonstick Head shape: discoid Shell material: stainless steel/ brass chrome plating Lamp mode: ring IP grade: IP65	

MP016S

Mental Push Button Series

Specification		MP016S/F11Z	MP016S/H11Z	MP016S/F2J-△▲D	MP016S/F2J-△▲E
The front shape		High discoid	High discoid	Discoid	Discoid
Terminal type		Connection insert(1.8×0.4mm)	Connection insert(1.8×0.4mm)	Connection insert(1.8×0.4mm)	Connection insert(1.8×0.4mm)
Switching		No.3	No.3	No.3	No.1
Max. switch rating		3A/250VAC	3A/250VAC	3A/250VAC	3A/250VAC
Contact resistance		≤50mΩ	≤50mΩ	≤50mΩ	≤50mΩ
Insulation resistance		≥1000mΩ	≥1000mΩ	≥1000mΩ	≥1000mΩ
Dielectric intensity		2000VAC	2000VAC	2000VAC	2000VAC
Operating temp		- 20℃~ + 55℃	- 20℃~ + 55℃	- 20℃~ + 55℃	- 20℃~ + 55℃
Mechanical life		More than one million times	More than one million times	More than one million times	More than one million times
Electrical life		More than 200thousand times	More than 200thousand times	More than 200thousand times	More than 200thousand times
Panel thickness		1-10mm	1-10mm	1-10mm	1-10mm
Torque		5-14Nm	5-14Nm	5-14Nm	5-14Nm
Operation pressure		2.5-4Nm	2.5-4Nm	2.5-4Nm	2.5-4Nm
Operation travel		About 2.8mm	About 2.8mm	About 2.8mm	About 2.8mm
IP degree		IP40/IP67	IP40/IP67	IP65	IP65
Materia	Contact	Silver alloy	Silver alloy	Silver alloy	Silver alloy
	Button	Stainless steel/ nickel-plated brass	Stainless steel/ nickel-plated brass	Stainless steel/ nickel-plated brass	Stainless steel/ nickel-plated brass
	Body				
	Base	PBT	PBT	PBT	PBT
	RoHs	Customizable	Customizable	customizable	Customizable
LED spec.	Lamp type	Without lights	Without lights	Single point (LED)	Ring (LED)
	Rated voltage(Ue)			6V/12V/24V/110V/220V	6V/12V/24V/110V/220V
	Color			R G Y O B W	R G Y O B W
	Life			4000hours	4000hours

Note:△for voltage, ▲ for color, ◎for terminal.

RDA

Hoist Crane Switch

Product Overview

RDA series Hoist Crane Switch are suitable for AC 50Hz or 60Hz,voltage up to 380V,and DC working voltage up to 220Vin circuit control systems. Suitable for open-air environments with rain, snow, and heavy dust, such as remote control of cranes, electric hoists and other equipment. The product complies with the IEC 60947-5-1 standard.

Selection Guide

RDA	61	A	K
Model	Number of Button Pairs	Derivative Code	Emergency Stop Switch
Push Button Switch	61: 1 Pair 62: 2 Pairs 63: 3 Pairs 64: 4 Pairs	"A" means with ON(norm ally open self- locking), reset by OFF drive "B" means with ON(norm ally open self- reset), OFF(norm ally closed self-reset None, for switches without button groups	K (normally closed self-locking): with emergency stop switch None: without emergency stop switch

Norma l Operating and Installation Conditions

- Ambient air temperature :-5°C~+40°C,with 24-hours average not exceeding +35°C:
- Altitude: Not exceeding 2000 meters;
- Atmosp heric conditions: Relative humidity does not exceed 50% at amaximum temperature is+40°C;higher is permissible at lower temperatures(e.g., up to 90% at+20°C.)Special measures shall be taken for occasional condensation due to temperature changes;
- Pollution degree: Level 3;
- Installation category: Category II ;
- No significant shaking, impact vibration, or exposure to rain and snow.
- Free from explosion hazard, and no presence of gases or dust capable of corroding metals or degrading insulation.

Principal technical data

Table 1

Rated Operating Voltage (Ue (V))	Rated Operating Curr ent (Ie(A))	Use Category	Mechanical Life	Electrical Life
380	2. 5	AC - 15	Instantaneous type: 1,000,000 times; Others: 250,000 times	Emergency stop self-locking button:50,000 times; Others: 500,000 times
220	4. 5			
220	0. 3	DC - 13		
110	0. 6			

Outline and Installation Dimensions

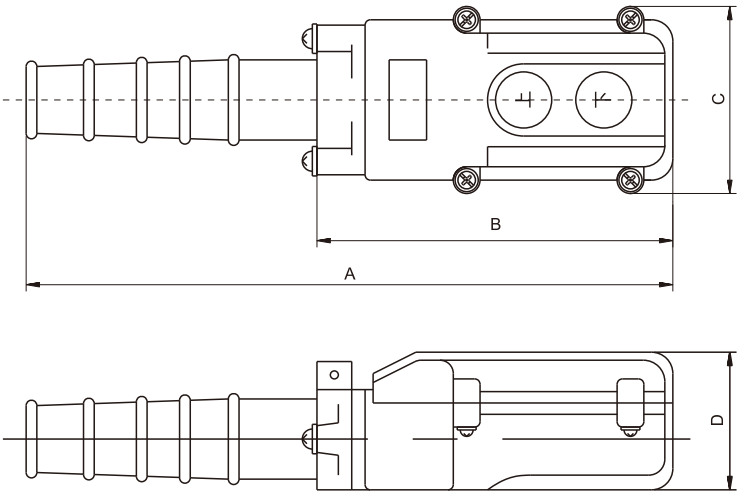


Figure 1

Table 2

Model	A	B	C	D	Note
RDA-61	250	140	70	50	Up, Down
RDA-62	310	200	70	50	Up, Down, Left, Right
RDA-63	370	260	70	50	Up, Down, Left, Right, Front, Back
RDA-64	430	320	70	50	Up, Down, Left, Right, Front, Back, Fast, Slow
RDA-61A	310	200	70	50	ON, OFF, Up, Down
RDA-62A	370	260	70	50	ON, OFF, Up, Down, Left, Right
RDA-63A	430	320	70	50	ON, OFF, Up, Down, Left, Right, Front, Back
RDA-64A	490	380	70	50	ON, OFF, Up, Down, Left, Right, Front, Back, Fast, Slow
RDA-61B	310	200	70	50	ON, OFF, Up, Down
RDA-62B	370	260	70	50	ON, OFF, Up, Down, Left, Right
RDA-63B	430	320	70	50	ON, OFF, Up, Down, Left, Right, Front, Back
RDA-64B	490	380	70	50	ON, OFF, Up, Down, Left, Right, Front, Back, Fast, Slow
RDA-61K	275	165	70	50	Emergency Stop, Up, Down
RDA-62K	335	225	70	50	Emergency Stop,Up, Down, Left, Right
RDA-63K	395	285	70	50	Emergency Stop,Up, Down, Left, Right Front, Back
RDA-64K	455	345	70	50	Emergency Stop,Up, Down, Left, Right Front, Back,Fast, Slow

Order Instructions

- When placing an order please specify the complete model, specification ,and quantityof the button.
- Example:50 pieces of RDA-63 type buttons mean 50 pieces of buttons with up, down, left, right, front ,and back types.

RDD6

Series signal lamps

Product Overview

RDD6/16 Series Signal Lamps adopt high-brightness pure-color LED light-emitting chips as the light source, with long service life, low energy consumption, and small volume. The components are made of imported materials,firm and durable, and wear-resistant. They can work normally under the vibration freguency of 2-80Hz and acceleration of 0.7G. They have reliable performance, beautiful appearance, and complete specifications. They are suitable for use as indication signals, pre-warning signals, accident signals, and other indication signals in the circuits of equipment such as electric power. telecommunication machine tools, ships, textiles, printing, and mining machinery. The product complies with the IEC 60947-5 standard.

Selection Guide

RDD6	22	K+nubmer	M	R	21
Model	Neck Dimension	Derivative Code		Color	Voltage Code
6: Signal Lamp	2	K: Anti-interference Number : 2-20V 4-40V 6-60V	B: Flat Circular Lamp Shade D: Curved Circular Lamp Shade BS:Ultra-short Flat Circular Lamp Shade DS:Ultra-short Curved Circular Lamp Shade	R: Red G: Green Y: Yellow W: White B: Blue	See Table 1
16: Buzzer		/	M: Buzzer JM: Intermittent Buzzer S:Flash SM:Flash Buzzer SS:Dual-color Flash		

Table 1

Voltage Code	21	22	23	24	25	26	27	28	31	32
Corre spon ding Voltage/V	6	12	24	36	48	110	127	220	220	380
Power Type	DC/AC								AC	

Normal Operating Conditions and Installation Conditions

- Ambient air temperature :-5°C~+40°C,and the average value within 24 hours does not exceed +35°C:
- Altitude:Not exceeding 2000m;
- Atmospheric conditions: When the maximum temperature is+40°C the relative humidity of the air does not exceed 50%. At lower temperatures, a higher relative humidity is allowed, for example, reaching 90 % at + 20 °C. Special measures should be taken for the condensation occasionally generated due to temperature changes;
- Pollution degree: Grade 3;
- Installation category: Category III;
- Places without significant shaking, impact vibration, and without rain and snow invasion;
- In a medium without explosion hazard, and there is no gas and dust in the
- medium sufficient to corrode metals and damage insulation.

Main Technical Data

Table 3

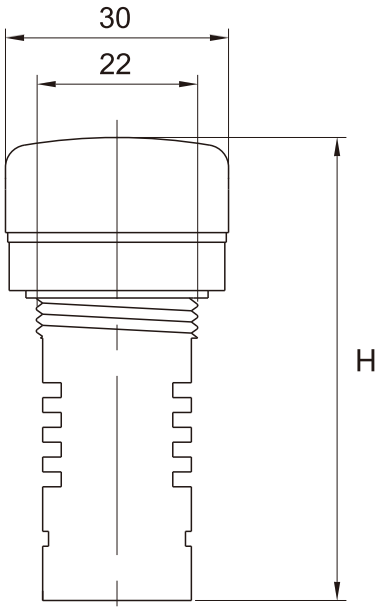
Signal Lamp	AC/DC						AC
Rated Operating Voltage Ue (V)	6	12	24	48	110	220	380
Rated Operating Currentle (mA)	≤20						
Operating Life (h)	≥30000						
Luminance (cd/m^2)	≥60						

Buzzer	AC/DC						AC
Rated Operating Voltage Ue (V)	6	12	24	48	110	220	380
Rated Operating Currentle (mA)	≤20						
Buzzer Volume (dB/10cm)	70						
Luminance (with lamp) (cd/m^2)	≥20						

Product Features

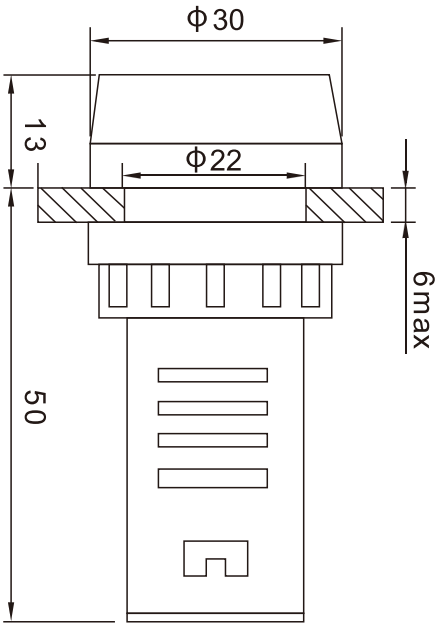
Mounting Hole Size: φ22mm,φ25mm can be achieved by selecting a reducing ring;
Components are made of imported materials, firm and durable, and wear - resistant;
Built -in screw-type wiring, safer and more convenient;

Outline and Installation Dimensions



Model	H
RDD6-B	63
RDD6-D	65
RDD6-BS	51
RDD6-DS	51

RDD6



RDD16

TME

Limit Switch

Features

- Double circuit type of limit switch
- Highly rigid construction, consists of intensive plastic and aluminum cast (head and cover snugly fit in box)
- Small volume, water-proof and oil-proof construction
- Built-in basic switch with double spring mechanism, longer mechanical life
- Smooth operation with greater OT
- Easy-to-wire circuit opening design
- Wide varity of actuators, easily use

Ratings

Rated voltage	Noninductive load (A)				Inductive Load (A)			
	Resistance Load		Lamp Load		Inductive Load		Motor Load	
	NC	NO	NC	NO	NC	NO	NC	NO
125VAC 250VAC 500VAC	5 5	5 5	1.5 1.0	0.7 0.5	3 3	3 3	2.0 1.5	1.0 0.8
8VDC 14VDC 30 VDC 125 VDC 250 VDC	5 5 5 0.4 0.2	5 5 5 0.4 0.2	3 3 3	3 3 3	5 4 4	4 4 4	3 3 3	3 3 3
Inrush Current	N.C: below 24A, N.O: below 12A							

NOTES:
1. Inductive load has a power factor of 0.4 min. (AC) and a time constant of 7 msec. (DC).
2. Lamp load has an inrush current of 10 times the steady-state current, while motor load has an inrush current of 6 times the steady-state current

Characteristics

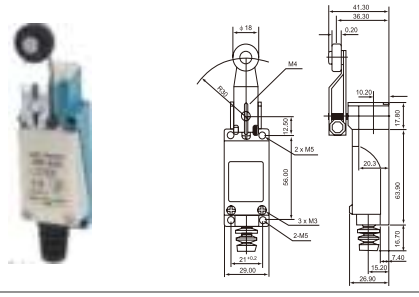
Operation speed	0.5mm~50cm/sec
Operation frequency	Mechanical: 120 operations/minute Electrical: 30 operations/minute
Contact resistance	25mΩmax. (initial value)
Insulation resistance	100mΩmax. (at 500VDC)
Dielectric strength	1000VAC, 50/60Hz for 1 minute between terminals of the same polarity
	1500VAC, 50/60Hz for 1 minute between current-carrying and non-current-carrying metal parts
	1500VAC, 50/60Hz for 1 minute between each terminal and ground
Vibration	10~55Hz, 1.5mm double amplitude
Shock	Mechanical durable: 1,000m/Sec² (about 100G'S) Malfunction: 300m/Sec² (about 30G'S)
Ambient temperature	-5℃ to +65℃
Humidity	＜95% RH
Life	Mechanical: 10,000,000 operations above Electrical: 500,000 operations above
Weigh	About 130 to 190g
Degree of protection	IP65

Operating characteristics

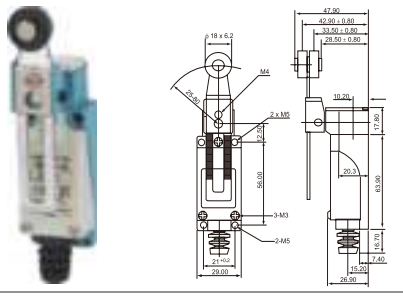
Model	TME-8104	TME-8108	TME-8107	TME-8111	TME-8112/8122	TME-8166/8167/8168/8169
OF Max.	750g	750g	750g	900g	900g	150g
RF Min.	100g	100g	100g	150g	150g	-
PT Max.	20°	20°	20°	1.5mm	1.5mm	30mm
OT Min.	50°	50°	50°	4mm	4mm	-
MD Max.	12°	12°	12°	1mm	1mm	-
OP	-	-	-	26±0.8mm	37±0.8mm	-

Appearance and dimension

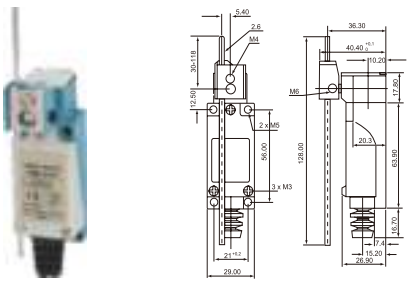
TME-8104



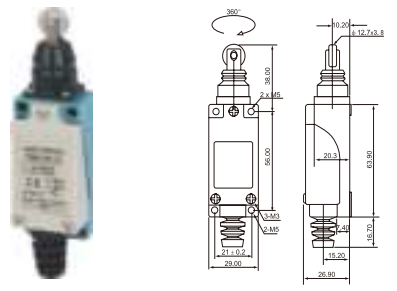
TME-8108



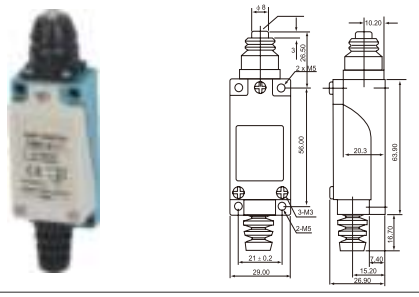
TME-8107



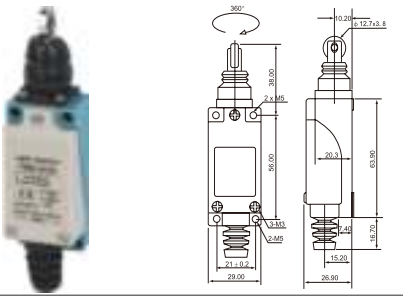
TME-8112



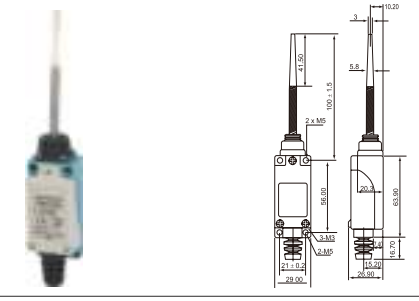
TME-8111



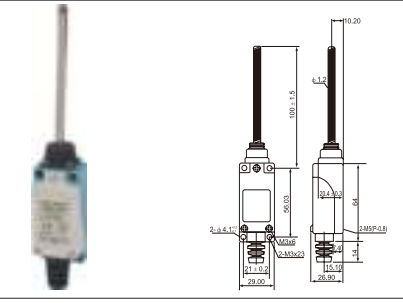
TME-8122



TME-8166



TME-9101



TXCK-M

Limit Switch

Features

- Strong metal outer shell, swing arm max. ±95°
- Long life (20,000,000 mechanical operations)
- Stainless steel idler wheel, punch and spring
- Selective PG11 cable gland

Specifications

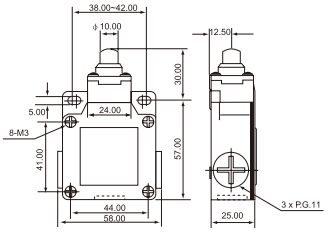
Model	TXCK-M	110	102	121	115	141	106	139	108
Operating force	OF Max.	800g	800g	800g	400g-cm	400g-cm	150g	150g	150g
Release force	RF Min.	400g	400g	400g	100g-cm	100g-cm	50g	50g	50g
Pre-travel	PT Max.	1.8mm	1.8mm	1.8mm	20°	20°	30mm	30mm	30mm
Tripping position	TP±10%	2.0mm	2.0mm	2.0mm	22.5°	22.5°	22.5°	22.5°	22.5°
Movement differential	MD Max.	1.2mm	1.2mm	1.2mm	10°	10°	14°	14°	14°
Over travel	OT Min.	4.0mm	4.0mm	4.0mm	75°	75°	20mm	20mm	20mm
Total travel	TT Min.	5.8mm	5.8mm	5.8mm	95°	95°	50mm	50mm	50mm
Rotary indexing					22.5°	22.5°			

Characteristics

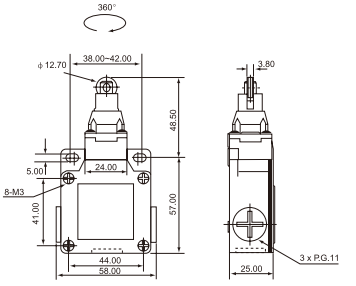
Double Break Mechanism	INO+INC Force Break snap action
Rated Voltage / Current	10(4)A, 125, 250VAC/6(2)A, 380VAC For inductance Load, Cosφ=0.4
Contact Resistance	25m Ω max. (initial value)
Insulation Resistance	100mΩ max. (at 500VDC)
Dielectric Strength	1000VAC, 50/60Hz for 1 minute between terminals of the same polarity
	1500VAC, 50/60Hz for 1 minute between current-carrying and non-current-carrying metal parts
	1500VAC, 50/60Hz for 1 minute between each terminal and ground
Electrical life	500,000 at 10A 250VAC Resistive
Mechanical Life	10,000,000 operations min. (under rated conditions)
Operating Speed	5mm/s to 0.5m/s
Degree of Protection	IP66
Ambient Temperature Rised	Max 30℃ over ambient temperature at rated voltage/current
Conformed Standards	CENELEC EN 50041, EN 50047, IEC 337-1, VDE 0660
Operating Temperature	-5℃~+65℃(with no icing)
Storage Temperature	-5℃~+65℃(with no icing)
Ambient Operating Humidity	95% RH Max.
Shock Resistance	Mechanical durable: 1000m/s² min
	Malfunction: 300 m/s² min
Vibration Frequency	Malfunction: 10 to 55 Hz, 1.5mm double amplitude
Terminal Screw Torsional Force	6-8 kgf-cm
Other Screw Torsional force	Cover 12-14 kgf-cm/Head 8-9 kgf-cm/Mounting 50-60 kgf/cm
Bare Wire Diameter	φ2 max
Cable Diameter	φ12 max (IP 65 IF use cableφ8-9)

Appearance and dimension

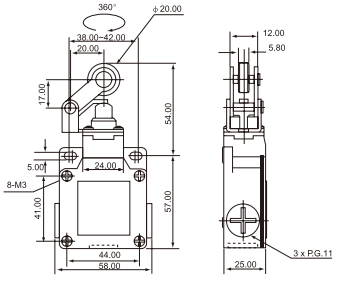
TXCK-M110



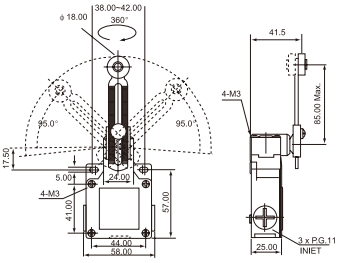
TXCK-M102



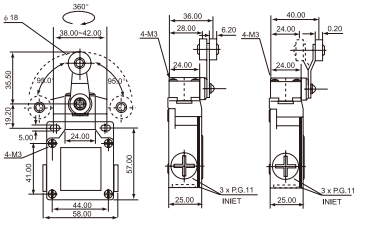
TXCK-M121



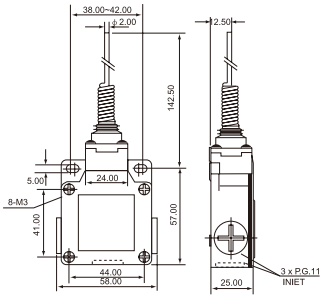
TXCK-M141



TXCK-M115



TXCK-M106



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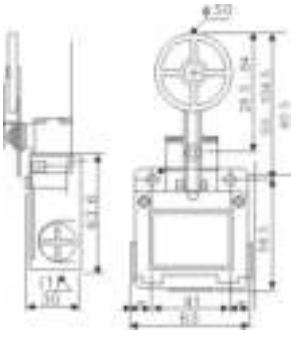
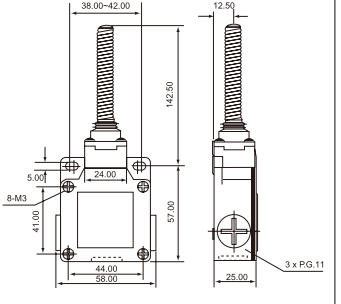


TXCK-M108



TXCK-P / TXCK-T

Limit Switch

Features

- Economical & plastic type
- Stainless steel roller, punch and spring
- Swing amplitude, extra large ± 95°
- PG13.5 cable gland that can be equipped

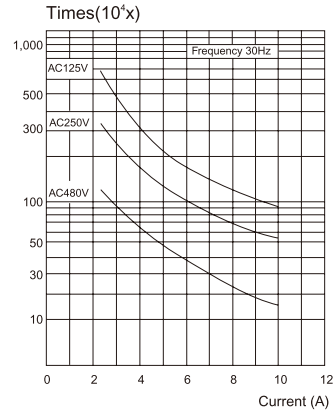
Specifications

Model	TXCK-P TXCK-T	110 110	102 102	128 121	118 118	127 127	145 145	106 106	181 155	155	139 139
Operating force	OF Max.	700g	700g	700g	500g	700g	500g-cm	100g	100g	100g	500g-cm
Release force	RF Min.	200g	200g	200g	100g-cm	200g	100g-cm	40g	40g	40g	100g-cm
Pre-travel	PT Max	1.8mm	1.8mm	1.8mm	20°	1.8mm	20°	30mm	30mm	30mm	20°
Tripping position	TP ±10%	2.0mm	2.0mm	2.0mm	22.5°	2.0mm	22.5°	22.5°	22.5°	22.5°	22.5°
Movement differential	MD Max.	1.2mm	1.2mm	1.2mm	10°	1.2mm	10°	14°	14°	14°	10°
Over travel	OT Min.	4.0mm	4.0mm	4.0mm	75°	4.0mm	75°	20mm	20mm	20mm	75°
Total travel	TT Min.	5.8mm	5.8mm	5.8mm	95°	5.8mm	95°	50mm	50mm	50mm	95°
Rotary indexing					22.5°		22.5°				22.5°

Characteristics

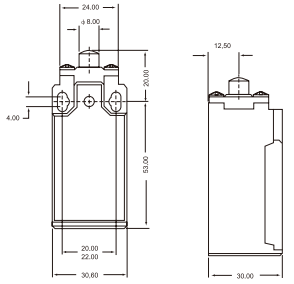
Double Break Mechanism	INO+INC Force Break snap action
Rated Voltage / Current	10(4)A, 125, 250VAC/6(2)A, 380VAC For inductance Load, Cosφ=0.4
Contact Resistance	25m Ω max. (initial value)
Insulation Resistance	100mΩ max. (at 500VDC)
Dielectric Strength	1000VAC, 50/60Hz for 1 minute between terminals of the same polarity
	1500VAC, 50/60Hz for 1 minute between current-carrying and non-current-carrying metal parts
	1500VAC, 50/60Hz for 1 minute between each terminal and ground
Electrical life	500,000 at 10A 250VAC Resistive
Mechanical Life	10,000,000 operations min. (under rated conditions)
Operating Speed	5mm/s to 0.5m/s
Degree of Protection	IP64
Ambient Temperature Rised	Max 30℃ over ambient temperature at rated voltage/current
Conformed Standards	CENELEC EN 50041, EN 50047, IEC 337-1, VDE 0660
Operating Temperature	-5℃~+65℃(with no icing)
Storage Temperature	-5℃~+65℃(with no icing)
Ambient Operating Humidity	95% RH Max.
Shock Resistance	Mechanical durable: 1000m/s² min
	Malfunction: 300 m/s² min
Vibration Frequency	Malfunction: 10 to 55 Hz, 1.5mm double amplitude
Terminal Screw Torsional Force	6-8 kgf-cm
Other Screw Torsional force	Cover 12-14 kgf-cm/Head 8-9 kgf-cm/Mounting 50-60 kgf/cm
Bare Wire Diameter	φ2 max
Cable Diameter	φ12 max

Electrical life

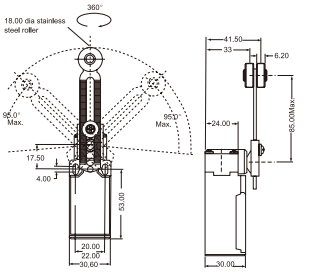


Appearance and dimension

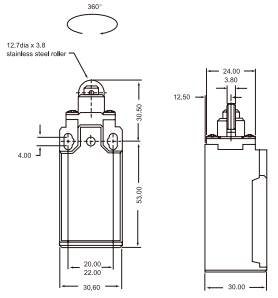
TXCK-P110



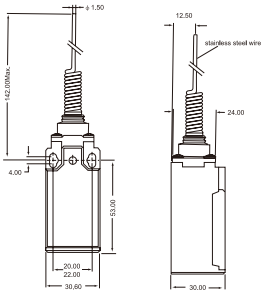
TXCK-P145



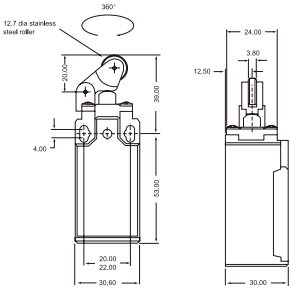
TXCK-P102



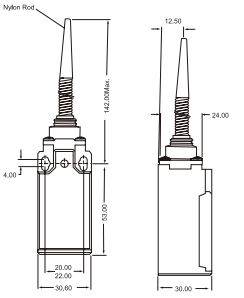
TXCK-P106



TXCK-P128



TXCK-P181



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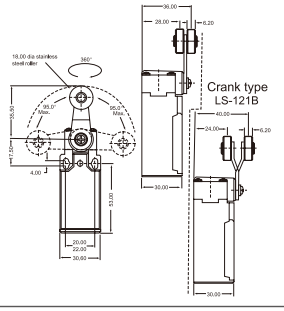
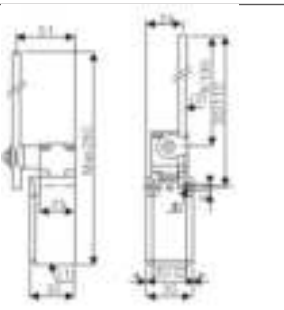


TXCK-P155



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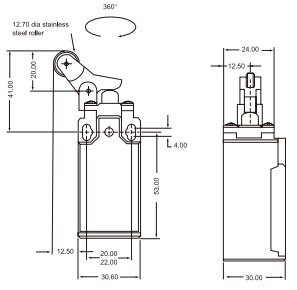

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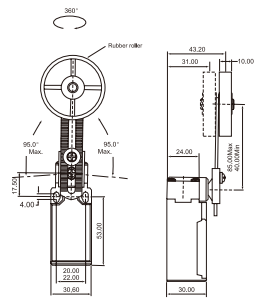
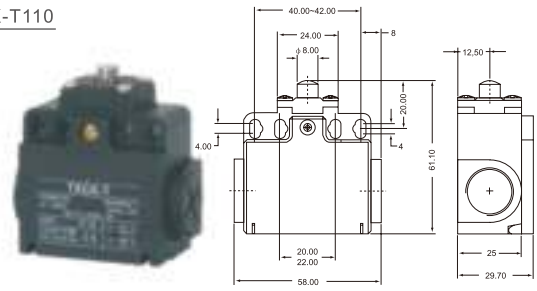
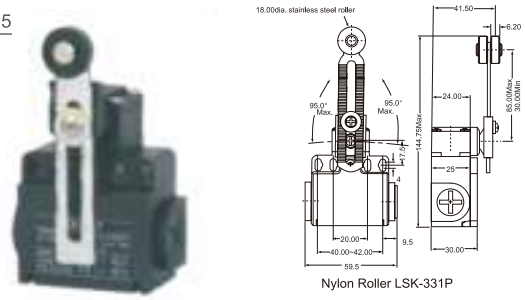


Appearance and dimension

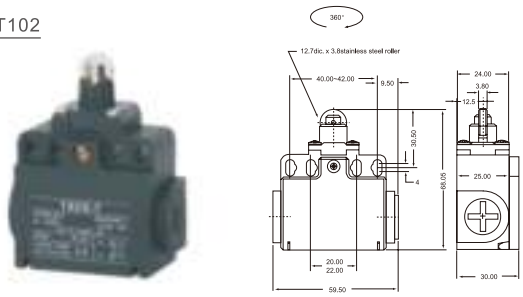
TXCK-T110



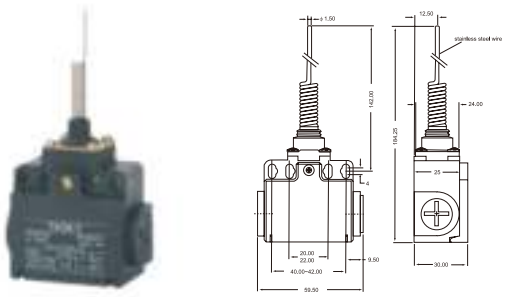
TXCK-T145



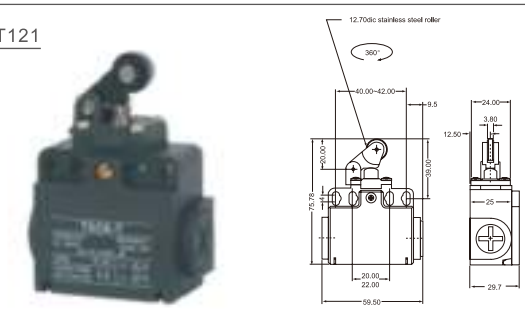
TXCK-T102



TXCK-T106

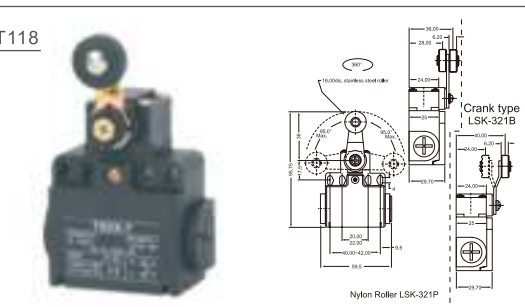


TXCK-T121

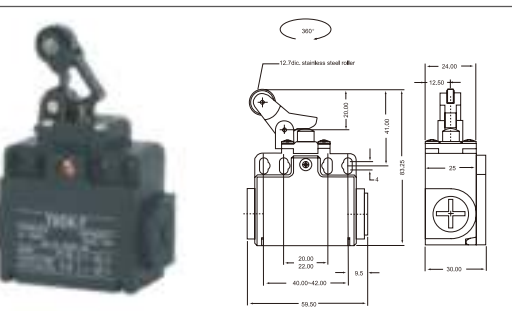


TXCK-T155

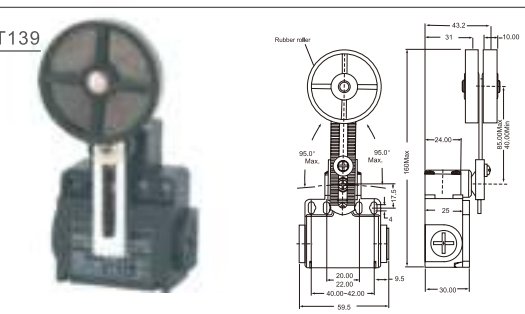
TXCK-T118



TXCK-T127



TXCK-T139



CWL

Limit Switch

Features

- Double–circuit type of limit switch is widely used
- With strong aluminum cast outer shell
- High mechanical strength
- Water–proof, oil–proof construction
- Structure preventing oil, water and pressure
- Indicating plate with setting position is installed in it, so it is easy to maintain
- Various of actuators is taken convenience for using
- Built–in contact stand has double–spring, so it has long mechanical life

Ratings

Rated voltage	Noninductive Load (A)				Inductive Load (A)			
	Resistance Load		Lamp Load		Inductive Load		Motor Load	
	NC	NO	NC	NO	NC	NO	NC	NO
125VAC	10		3	1.5	10		5	2
250VAC	5		2	1	5		3	1
480VAC	3		1.5	0.8	3		1.5	0.8
600VAC	1		1	0.5	1.5		1	0.5
8VDC	10		6	3	10		6	
14VDC	10		6	3	10		6	
30VDC	6		4	3	6		4	
125VDC	0.8		0.2	0.2	0.8		0.2	
250VDC	0.4		0.1	0.1	0.4		0.1	

Characteristics

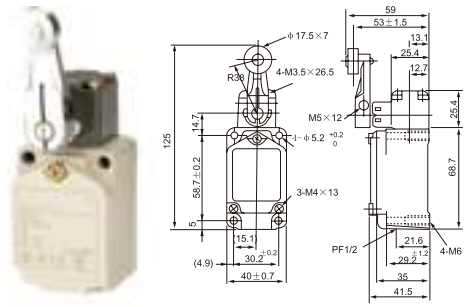
Operation speed	1mm~2m/s
Operation frequency	Mechanical: 120 operations/minute Electrical: 30 operations/minute
Contact resistance	15mΩmax. (initial value)
Insulation resistance	100mΩabove (at 500VDC)
Dielectric strength	1000VAC, 50/60Hz for 1 minute between terminals of the same polarity
	1500VAC, 50/60Hz for 1 minute between current-carrying and non-current-carrying metal parts
	1500VAC, 50/60Hz for 1 minute between each terminal and ground
Vibration	10~55Hz, 1.5mm double amplitude
Shock	Mechanical durable: 1,000m/Sec^2 (about 100G'S) Malfunction: 300m/Sec^2 (about 30G'S)
Ambient temperature	-10℃ to +80℃
Humidity	< 95% RH
Life	Mechanical: 15,000,000 operations above (under rated OT) Electrical: 500,000 operations above
Weigh	About 275g
Degree of protection	IP66

Operating characteristics

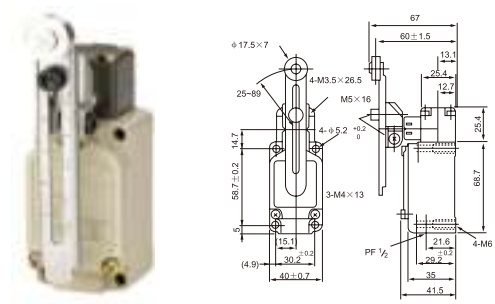
Model	CWLCA2-2	CWLD2	CWLNJ	CWLNJ-S2	CWLCA12-2-Q	CWLCL	CWLCA32-41	CWLD	CWLNJ-2	CWLNJ-30	CWLD1	CWLD3
OF Max.	1360g	2720g	150g	29g	1360g	142g	1200g	2720g	120g	80g	2720g	2720g
RF Min.	227g	910g	-	-	227g	28g	-	910g	-	-	910g	910g
PT Max.	20°	1.7mm	28mm	28mm	20°	20°	55°	1.7mm	28mm	28mm	1.7mm	1.7mm
OT Min.	30°	5.6mm	-	-	30°	30°	35°	6.4mm	-	-	5.6mm	5.6mm
MD Max.	12°	1mm	-	-	12°	12°	-	1mm	-	-	1mm	1mm
TF Max.	2720g	-	-	-	2720g	200g	-	-	-	-	2720g	2720g
TT Min.	50°	6.5± 0.8mm	-	-	50°	50°	OP: 90±10°	OP: 34± 2.8mm	-	-	6.5 ± 0.8mm	9 ± 0.8mm

Operating characteristics

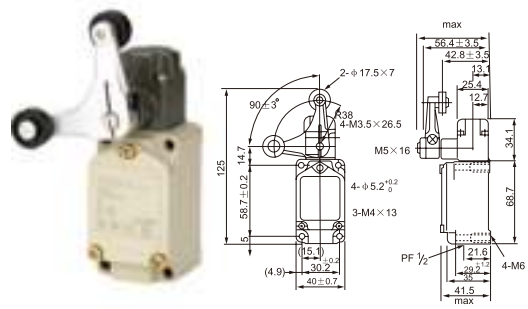
CWLCA2-2



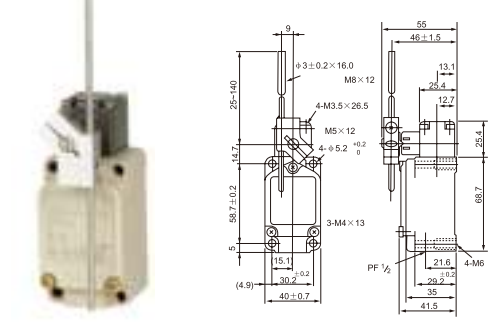
CWLCA12-2-Q



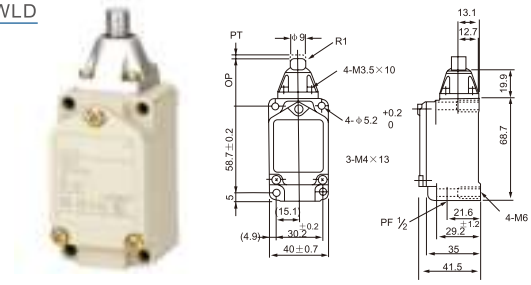
CWLCA32-41



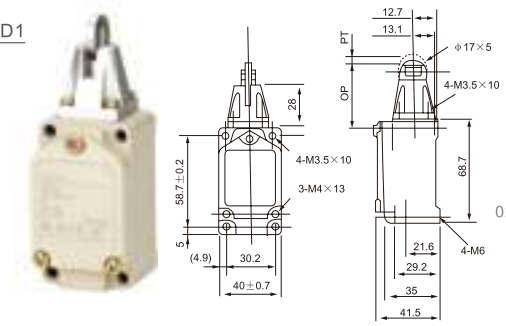
CWLCL



CWLD

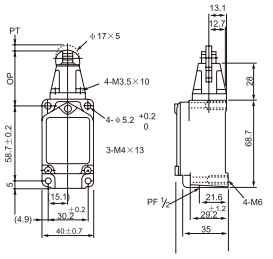


CWLD1

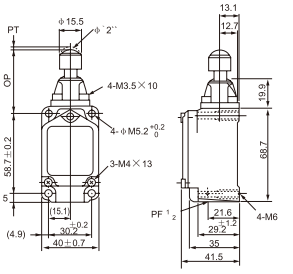


Operating characteristics

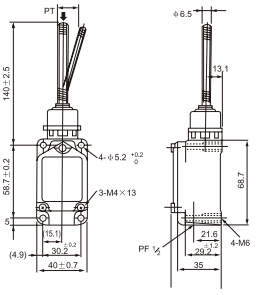
CWLD2



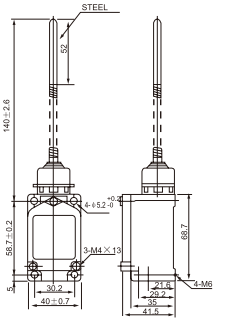
CWLD3



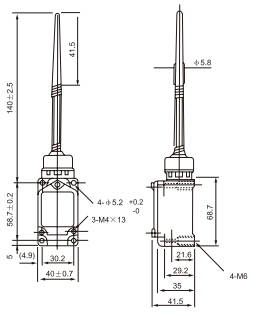
CWLNJ



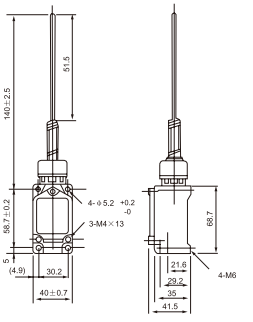
CWLNJ-30



CWLNJ-2



CWLNJ-S2



THL

Limit Switch

Features

- Metallic bottom shell
- Stainless steel roller, punch and spring
- Strong electric property 10A, 250V, for 500,000 times

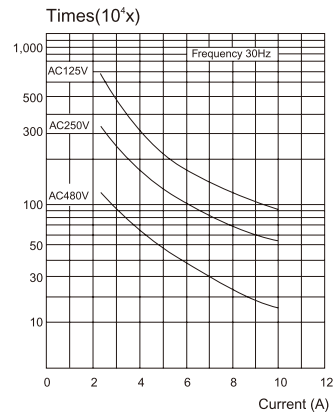
Specifications

Model	THL	5000	5030	5050	5100	5200	5220	5300	5330	5301	5300-L
Operating force	OF Max.	750g-cm	750g-cm	750g-cm	750g-cm	900g-cm	900g-cm	150g	150g	150g	550g-cm
Release force	RF Min.	100g-cm	100g-cm	100g-cm	200g	200g	200g	30g	30g	30g	100g-cm
Pre-travel	PT Max.	20°	20°	20°	1.8mm	1.8mm	1.8mm	30mm	30mm	30mm	20°
Tripping position	TP ±10%	22.5°	22.5°	22.5°	2.0mm	2.0mm	2.0mm	22.5°	22.5°	22.5°	22.5°
Movement differential	MD Max.	10°	10°	10°	1.2mm	1.2mm	1.2mm	14°	14°	14°	14°
Over travel	OT Min.	75°	75°	75°	4.0mm	4.0mm	4.0mm	20mm	20mm	20mm	75°
Total travel	TT Min.	95°	95°	95°	5.8mm	5.8mm	5.8mm	50mm	50mm	50mm	95°

Characteristics

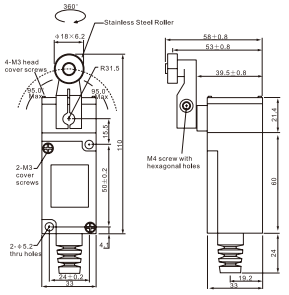
Double Break Mechanism	1NO+1NC Force Break snap action
Rated Voltage / Current	10(4)A, 125, 250VAC/6(2)A, 380VAC For inductance Load, Cosφ=0.4
Contact Resistance	25m Ω max. (initial value)
Insulation Resistance	100mΩ max. (at 500VDC)
Dielectric Strength	1000VAC, 50/60Hz for 1 minute between terminals of the same polarity
	1500VAC, 50/60Hz for 1 minute between current-carrying and non-current-carrying metal parts
	1500VAC, 50/60Hz for 1 minute between each terminal and ground
Electrical life	500,000 at 10A 250VAC Resistive
Mechanical Life	10,000,000 operations min. (under rated conditions)
Operating Speed	5mm/s to 0.5m/s
Degree of Protection	IP65
Ambient Temperature Rised	Max 30℃ over ambient temperature at rated voltage/current
Conformed Standards	CENELEC EN 50041, EN 50047, IEC 337-1, VDE 0660
Operating Temperature	-5℃~+65℃(with no icing)
Storage Temperature	-5℃~+65℃(with no icing)
Ambient Operating Humidity	95% RH Max.
Shock Resistance	Mechanical durable: 1000m/s² min
	Malfunction: 300 m/s² min
Vibration Frequency	Malfunction: 10 to 55 Hz, 1.5mm double amplitude
Terminal Screw Torsional Force	6-8 kgf-cm
Other Screw Torsional force	Cover 12-14 kgf-cm/Head 8-9 kgf-cm/Mounting 50-60 kgf/cm
Bare Wire Diameter	φ2 max
Cable Diameter	φ9 max(IP 65 if use cableφ8-9)

Electrical life



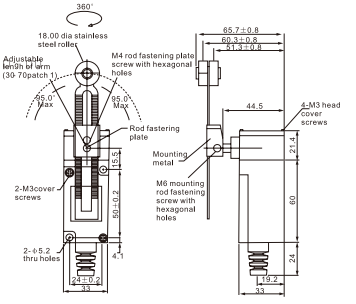
Appearance and dimension

THL-5000

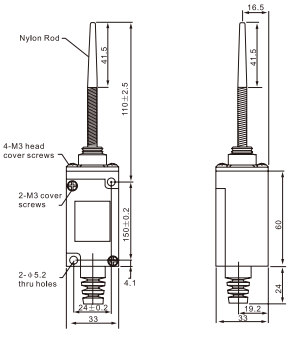


Nylon Roller LSN-5000P

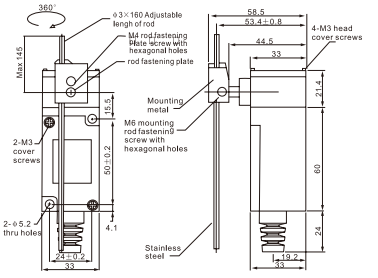
THL-5030



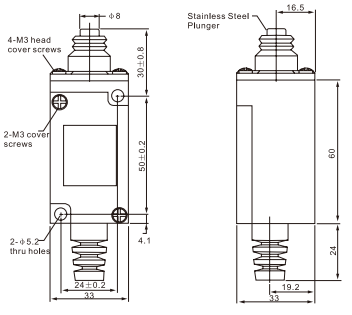
THL-5300



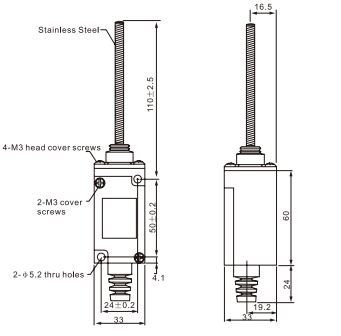
THL-5050



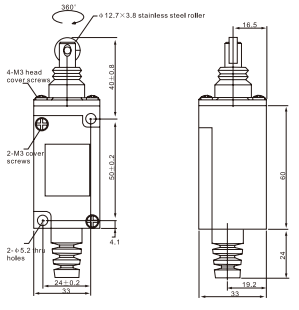
THL-5100



THL-5301

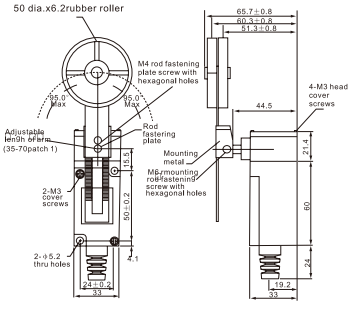


THL-5200



Direction of rotor CHL-5220

THL-5030-L



CM

Micro Switch

Features

- Various of actuators, action position is adjustable (such as Cm1701)
- High switch on and off capacity (15A)
- High accuracy
- Wide range of operation speed
- Each type of CM series has solder terminal, screw terminal and tab terminal are selective
- Add A for solder terminal, add C for tab terminal, blank for screw terminal

Ratings

Rated voltage	Noninductive load (A)				Inductive Load (A)					
	Resistance		Lamp Load		Inductive Load		Motor Load			
	NC	NO	NC	NO	NC	NO	NC	NO	NC	NO
125VAC 250VAC 500VAC	15 15 3		3 2.5 1.5	1.5 1.25 0.75	15 15 2.5		5 3 1.5	2.5 1.5 0.75	30 max.	15 max.
8VDC 14VDC 30 VDC 125 VDC 250 VDC	15 15 6(2) 0.4 0.2		3 3 3 0.4 0.2	1.5 1.5 1.5 0.4 0.2	15 10 5 0.05 0.03		5 5 5 0.05 0.03	2.5 2.5 2.5 0.05 0.03		

Characteristics

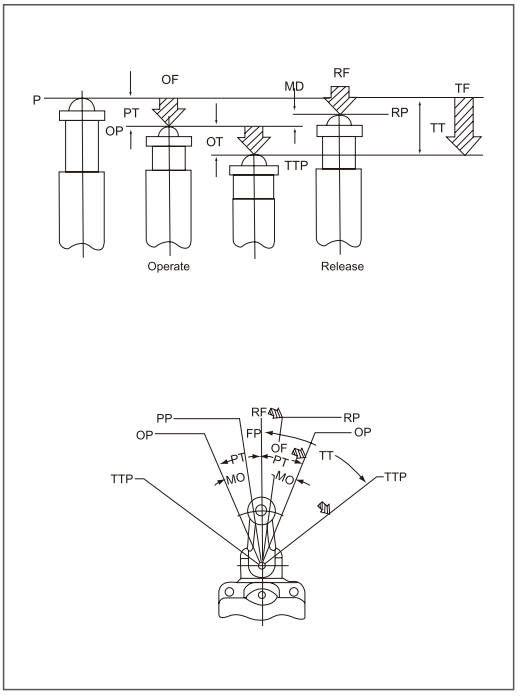
Operation speed	0.01mm~1m/sec
Operation frequency	Mechanical: 240 operations/min. Electrical: 20 operations/min.
Contact resistance	15mΩmax. (initial value)
Insulation resistance	100mΩ min. (at 500VDC)
Dielectric strength	1000VAC, 50/60Hz for 1 minute between terminals of the same polarity
	1500VAC, 50/60Hz for 1minute between current-carrying and non-current-carrying metal parts
	1500VAC, 50/60Hz for 1 minute between each terminal and ground
Vibration	10-55Hz, 1.5mm double amplitude
Shock	Mechanical durable: 1,000m/Sec² (about 100G'S) Malfunction: 300m/Sec² (about 30G'S)
Ambient temperature	General purpose type: -25℃ to +80℃, Sealed type: -15℃ to +80℃
Humidity	General purpose type: 85% RH max., Sealed type: 95% RH max.
Life	Mechanical: 20,000,000 operations/min. Electrical: 500,000 operations/min.
Weigh	About 22g to 58g
Degree of protection	IP65

Operating characteristics

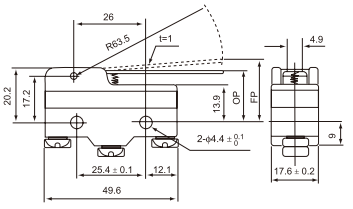
Model	CM1300	CM1301	CM1303	CM1305	CM1306	CM1307	CM1308	CM1309	Cm1701	CM1702	CM1703	CM1704	CM1705	CM1743
OF Max.	350g	300g	300g	350g	350g	350g	350g	350g	70g	100g	160g	160g	10g	160g
RF Min.	114g	50g	50g	114g	114g	114g	114g	114g	14g	28g	22g	42g	3g	42g
PT Max.	0.4mm	4mm	4mm	0.4mm	0.4mm	0.4mm	0.4mm	0.4mm	10mm	5mm	7.1mm	2.7mm	20mm	2.7mm
OT Min.	0.13mm	1.6mm	1.6mm	1.6mm	1.6mm	5.5mm	3.58mm	3.58mm	5.6mm	2mm	4mm	2.4mm	5.6mm	2.4mm
MD Max.	0.05mm	1.3mm	1.3mm	0.05mm	0.05mm	0.05mm	0.05mm	0.05mm	1.27mm	1mm	1.02mm	0.5mm	3mm	0.5mm
FP Max.		20.6mm	31.8mm						28.2mm	24.8mm	36.5mm	32.5mm		43.6mm
OP(mm)	15.9±0.4	17.4±0.8	28.6±0.8	28.2±0.5	21.5±0.5	21.8±0.8	33.4±1.2	33.4±1.2	19±0.8	19±0.4	30.2±0.8	30.2±0.4	19±0.4	43.1±0.8

Definitions of operating characteristics:

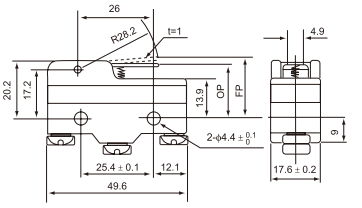
OF: operating force
Force needed to add to the executer unit to actuate switch contact
RF: releasing force
Force needed to add to the executer unit to make the switch contact back to normal position
TF: total force
Force needed to make executer unit move from free position to limitation position
FP: free position
Primary position of executer unit without external force adding to executer unit
OP: operating position
The position of executer unit in case of the contact rapidly moving to the contact position for action
RP: releasing position
The position of executer unit in case of the contact rapidly backing to normal position to action contact position
TTP: total travel position
The position of executer unit in case of executer unit reaching the limitation position
PT: pre–travel
The distance or angle that the executer unit passes since free position to action position
OT: over–travel
The distance or angle that the executer unit surpasses action position
MD: movement differential
The distance or angle from action position to reversion position
TT: total travel
The distance or angle represents the movement till action and the total movement till action and the total movement after all actions.



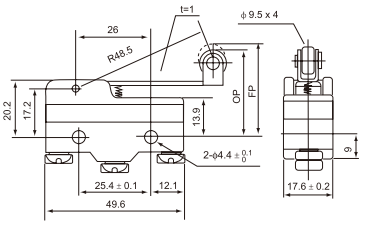
CM-1701 (Z-15GW-B)



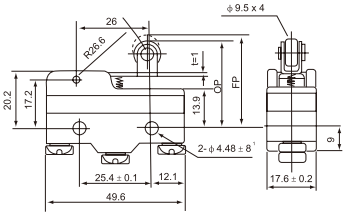
CM-1702 (Z-15GW21-B)



CM-1703 (Z-15GW2-B)

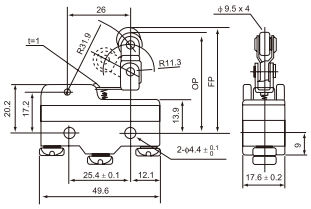


CM-1704 (Z-15GW22-B)

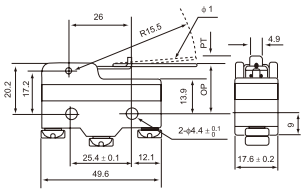


Appearance and dimension

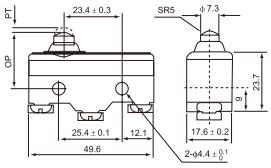
CM-1743 (Z-15GW2277-B)



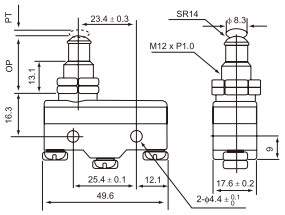
CM-1705 (Z-15HW78-B)



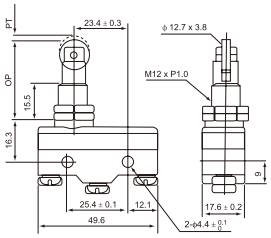
CM-1306 (Z-15GD-B)



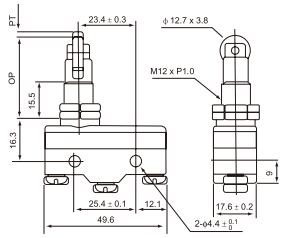
CM-1307 (Z-15GQ-B)



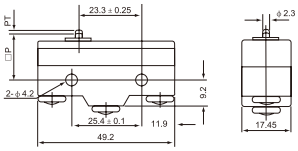
CM-1308 (Z-15GQ22-B)



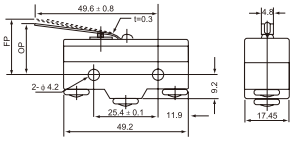
CM-1309 (Z-15GQ21-B)



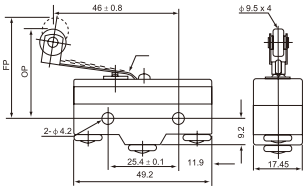
CM-1300 (Z-15G-B)



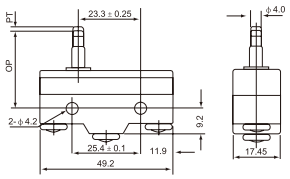
CM-1301 (Z-15GQL-B)



CM-1303 (Z-15GL2-B)



CM-1305 (Z-15GS-B)



Toggle
Switch

Features

- The current has 10A and 15A
- Movement way has fixed type and auto-return type(both single-throw and double-throw can return)
- The terminal block has screw terminal and solder terminal (tab terminal also can be used)
- Rainproof cap, water-proof and oil-proof, it is suitable for full series products
- Mounting hole: Φ12mm

Ratings

Load	Type	AC Rating	DC Rating
Resistance Load	CO C5	10A 250V 15A 125V	0.4A 250V 0.8A 125V
		15A 250V 20A 125V	0.5A 250V 0.9A 125V
Inductive Load	CO C5	10A 250V 15A 250V	0.2A 250V 0.4A 125V
		15A 250V 20A 125V	0.3A 250V 0.5A 125V 15A 30V
Lamp Load	CO C5	300W 100V 500W 200V	-
		400W 125V 800W 250V	7A 30V
Motor Load	CO C5 CO C5	200W 125V 300W 250V	-
		400W 125V (single phase)	
		550W 250V (three phase)	
		750W 250V (three phase)	

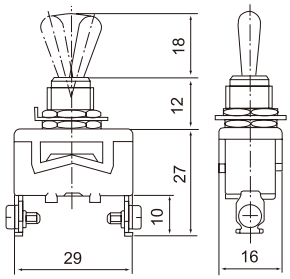
Characteristics

Contact resistance	15M Ωmax.(initial)
Insulation resistance	100M Ω above(under 500VDC)
Dielectric strength	2000V, 50/60Hz for 1 minute
Vibration	10 to 55Hz, 1.5mm double amplitude
Ambient temperature	-25℃ to +80℃
Humidity	85% RH max.
Life	Mechanical: 500,000 operations min.
	Electrical: 100,000 operations min.

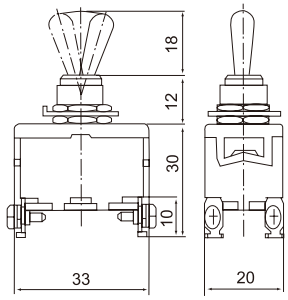
Item	Code	Description
Type	CO	10A 250VAC
	COR	10A 250VAC Spring return
	C5	15A 250VAC
	C5R	15A 250VAC Spring return
Contact	11	Single pole single throw ON-OFF
	12	Single pole double throw ON-OFF
	13	Single pole double throw (central OFF) ON-OFF-ON
	131	Single pole double throw (central OFF single return) ON-OFF-ON
	21	Double pole single throw ON-OFF
	22	Double pole double throw ON-ON
	23	Double pole double throw (central OFF) ON-OFF-ON
	231	Double pole double throw (central OFF single return) ON-OFF-ON
Terminal	A	Tab terminal
	B	Screw terminal
	C	Solder terminal

Appearance and dimension

C011B C511B C0R11B C5R11B



C021B C521B C0R21B C5R21B



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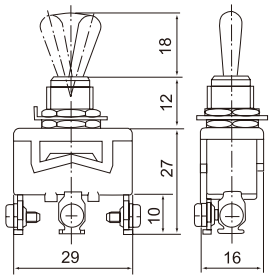

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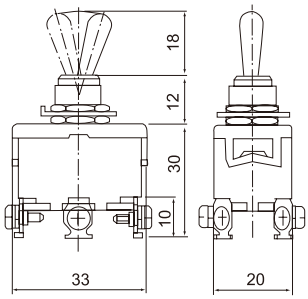

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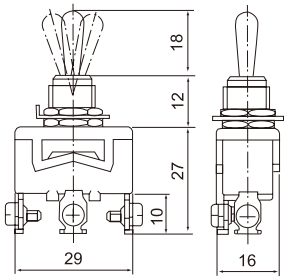
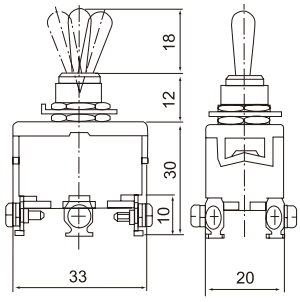
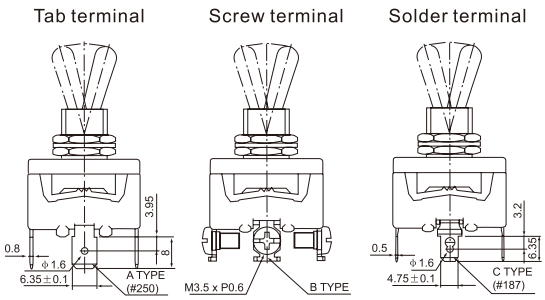
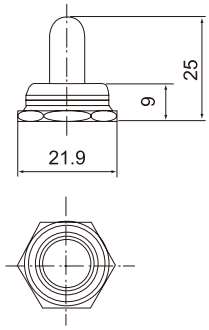


C023B C523B C0R23B C5R23B





Rainproof cap (Tow)



PEY

Float Switch

Application

The product it applies to industrial and mining enterprises and civil architecture, and it' s the equipment which controls pool, water tower, water box etc. It has the advantages of sensitive responses, accurate control novelty and practicality, so it is the necessary water supply product of factories hotels, flat building, houses and so on high buildings.

Model No.

PE Y -□□□

- Enclosure edge color code (see note 2)
- Enclosure body color code (see note 2)
- Outline code (see note 1)
- Fluid level controller code
- Products code

Note 1(Outline code): "1"- Trapezium "2"- Rectangle "3"- Large circular "4"- Small circular "5"- "Oval"
Note 2(Color code): "R"- red "Y"- yellow "S"- blue "G"- gray "B"- black

Main technical parameter

Specifications	
Rated voltage	250V(380V)
Rated current	10(8)A/10(4)A
Working temperature	0℃≤water temperature≤80℃
Mechanical endurance	≥100000times
Electrical endurance	≥50000times
Protection Grade	IP68CS

LW26

Series Rotary Switches

Application

The LW26 series rotary switch mainly applies to 440V and below, AC 50Hz or 240V and below DC circuits. For breaking, closing and change-over of circuit under unfrequently manual operation. And the typical application are: control switch of 3 phase motors, control switch of switch gear, control switch of instruments and change-over switch of machinery and welding machine.
The switch complies with the IEC60947-3,IEC60947-5-1.
The LW26 series have 7 current ratings:10A,20A,25A,32A,63A,125A and 160A.
The LW26 series rotary switch were designed for multiple functions and wide variety of applications,
The LW26-10,LW26-20,LW26-25 and LW26-32F have finger protection terminals.
LW26 series rotary switch has two derivatives, LW26GS PAD-LOCK and LW26S lock.
Both of them are applicable in circuits when an physical control is required.
We can equip protective box for 20A,25A,35A and 63A.

Model No.

LW 26 - □ / □

- Number of poles:2poles,3poles,and 4poles
- Rsted working current
- Product code
- Rotary switch(Cam switch)

Re:switches in this category normally rotated at 60°。

Working conditions

(1) Ambient temperature can't exceed 40℃ and the average temperature,measured over a period of 24hours ,do not exceed 35℃
(2) Ambient temperature should not be below -5℃
(3) Should not be installed over 2000m above sea level
(4) The humidity should not exceed 50 when the ambient temperature is over 40℃, and higher humidity is allowed at lower temperature.

Installation conditions

(1) A clean environment is required.
(2) Please follow our manual.

Diagram for the operation and position of handle

Operation angle	Charaoder code	Position of handle																															
		30°Rotation												45°Rotation								60°Rotation						90°Rotation			
Spring return	A						0°◄	30°									0°◄	45°															
	B					30°►	0°◄	30°								45°►	0°◄	45°															
Limited movement	C						0°	30°									0°	45°						0°		60°			0°	90°		
	D					30°	0°	30°								45°	0°	45°				60°		0°		60°		90°	0°	90°		
	E					30°	0°	30°	60°							45°	0°	45°	90°			90°	30°	30°		90°		90°	0°	90°	180°	
	F				60°	30°	0°	30°	60°						90°	45°	0°	45°	90°			90°	30°	30°		90°	150°					
	G				60°	30°	0°	30°	60°	90°					90°	45°	0°	45°	90°	135°		150°	90°	30°		30°	90°	150°				
	H			90°	60°	30°	0°	30°	60°	90°				135°	90°	45°	0°	45°	90°	135°												
	I			90°	60°	30°	0°	30°	60°	90°	120°			135°	90°	45°	0°	45°	90°	135°	180°											
	J		120°	90°	60°	30°	0°	30°	60°	90°	120°																					
	K		120°	90°	60°	30°	0°	30°	60°	90°	120°	150°																				
	L	150°	120°	90°	60°	30°	0°	30°	60°	90°	120°	150°																				
	M	150°	120°	90°	60°	30°	0°	30°	60°	90°	120°	150°	180°																			
	N																						30°	30°								
	P																											90°	0°			
Limited movement with spring return						30°►	0°	60°								90°	0°◄	45°				60°►		0°	◄	60°						
					60°►	30°►	0°◄	30°◄	60°					135°►	90°	0°◄	45°				90°►	60°		0°		60°►	90°					
	Z					30°►	0°			90°►	120°					45°►	0°◄	45°				120°►	60°		0°		60°►	120°				

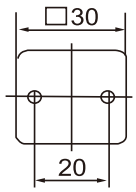
Escutcheon plate and handle

Description	Escutcheon plate						Type of handle								Rotating angle				Maximum Number of layers		
	M0	M1	M1B	M2	M2B	M3	R	F	I	B	H	L	P	K	30°	45°	60°	90°	12	10	8
LW26-10	●								●						●	●	●	●		●	
LW26X-10	●								●						●	●	●	●			●
LW26-20		●	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●	●		
LW26X-20		●	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●			●
LW26-25		●	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●			●
LW26-25				●	●		●	●	●		●	●	●	●	●	●	●	●	●		
LW26-32				●	●		●	●	●		●	●	●	●	●	●	●	●			●
LW26-63				●	●		●	●	●		●	●	●	●	●	●	●	●			●
LW26-125					●		●						●	●	●		●	●			●
LW26-160					●		●						●	●	●		●	●			●

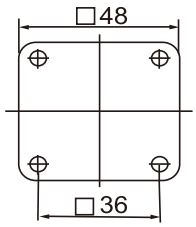
Re:M1B,M2B Plate should be installed by self tapping screw.

UNIVERSAL CHANGEOVER SWITCH

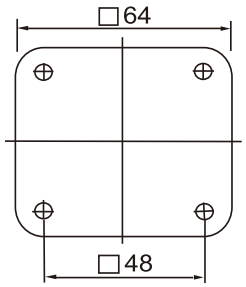
M0



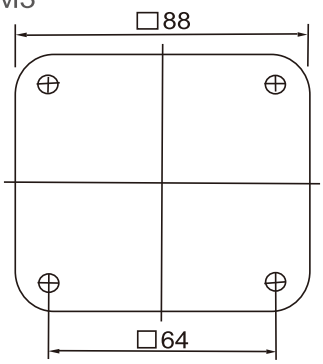
M1



M2



M3



Type of handle	Color	Escutcheon plate M0M1M2M3
R type 	Black Red White Gray	● ● ● ○ ○ ○ ○ ○ ○ ○ ○ ○
F type 	Black Red White Gray	● ● ○ ○ ○ ○ ○ ○
H type 	Black Red White Gray	● ○ ○ ○
P type 	Black Red White Gray	● ● ○ ○ ○ ○ ○ ○

Type of handle	Color	Escutcheon plate M0M1M2M3
I type 	Black Red White Gray Yellow	● ● ● ○ ○ ○ ○ ○ ○ ○ ○ ○ ○
B type 	Black Red White Gray	● ● ○ ○ ○ ○ ○ ○
L type 	Black Red White Gray	● ○ ○ ○
K type 	Black Red White Gray	● ● ○ ○ ○ ○ ○ ○

Main technical parameter

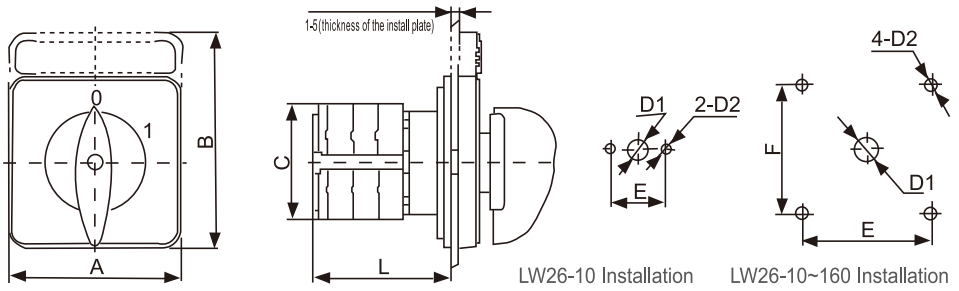
Description		LW26-10		LW26-20		LW26-25		LW26-32		LW26-63		LW26-125		LW26-160	
Rated thermal current Ith	A	10		20		25		32				125		160	
Rated workin9 voltage Ue	V	240	440	240	440	240	440	240	440	240	440	240	440	240	440
Rated working curent Ie															
AC-21A AC-22A	A	10	10	20	20	25	25	32	32	63	63	100	100	100	100
AC-23A	A	7.5	7.5	15	15	22	22	30	30	57	57	90	90	135	135
AC-2	A	7.5	7.5	15	15	22	22	30	30	57	57	90	90	135	135
AC-3	A	5.5	5.5	11	11	15	15	22	22	36	36	75	75	95	95
AC-4	A	1.75	1.75	35	3.5	6.5	6.5	11	11	15	15	30	30	55	55

Description		LW26-10		LW26-20		LW26-25		LW26-32		LW26-63		LW26-125		LW26-160	
AC-15	A	2.5	1.5	5	4	8	5	14	6						
Power															
AC-23A	KW	1.8	3	3.7/2.5	7.5/3.7	5.5/3	11/5.5	7.5/4	15/7.5	15/10	30/18.5	30/15	45/22	37/22	75/37
AC-2	KW	2.5	3.7	4	7.5	5.5	11	7.5	15	18.5	30	30	45	37	55
AC-3	KW	1.5	2.2	3/2.2	5.5/3	4/3	7.5/3.7	5.5/4	11/5.5	11/6	18.5/11	15/7.5	30/13	22/11	37/18.5
AC-4	KW	0.37	0.55	0.55/0.75	1.5/1.5	1.5/1.1	3/2.2	2.7/1.5	5.5/3	5.5/2.4	7.5/4	6/3	12/5.5	1./4	15/7.5

Re1:Neutral
Re2: The power under: AC-23A,AC-3,AC-4 are in three phases three poles, and the denominator represents the power under single phase two poles.
Mechanical life
Mechanical life without load:$0.1x10^6$ times operation frequency is 120 times/h.
Mechanical life with load:$0.03x10^6$ times operation frequency is 120 times/h.

Dimensions and installstion

Square escutcheon plate and rectangular escutcheon plate



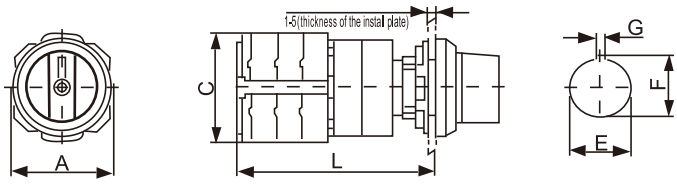
Description	Escutcheon plate	Dimensions(mm)				Installation(mm)			
		A	B	C	L	E	F	D1	D2
LW26-10	M0 square	30	30	28	22+8n	20		Φ8	Φ3.2
LW26X-10	M0 square	30	30	28	26.5+12n	20		Φ8	Φ3.2
LW26-20	M1 square	48	48	43	22+9.6n	36	36	Φ8.5	Φ4.5
	M1 rectangular	48	60	43	22+9.6n	36	36	Φ8.5	Φ4.5
	M2 square	64	64	43	25+9.6n	48	48	Φ10	Φ4.5
	M2 rectangular	64	80	43	25+9.6n	48	48	Φ10	Φ4.5
LW26X-20	M1 square	48	48	46	22+14n	36	36	Φ8.5	Φ4.5
	M1 rectangular	48	60	46	25+14n	36	36	Φ8.5	Φ4.5
	M2 square	64	64	46	25+14n	48	48	Φ10	Φ4.5
	M2 rectangular	64	80	46	25+14n	48	48	Φ10	Φ4.5
LW26-25	M1 square	48	48	45.2	23+12.8n	36	36	Φ8.5	Φ4.5
	M1 rectangular	48	60	45.2	23+12.8n	36	36	Φ8.5	Φ4.5
	M2 square	64	64	45.2	26.5+12.8n	48	48	Φ10	Φ4.5
	M2 rectangular	64	80	45.2	26.5+12.8n	48	48	Φ10	Φ4.5
LW26-32	M2 square	64	64	58	28.2+12.8n	48	48	Φ10	Φ4.5
	M2 rectangular	64	80	58	29.2+12.8n	48	48	Φ10	Φ4.5
LW26-32F	M1 square	48	48	48	23+14n	36	36	Φ8.5	Φ4.5
	M1 rectangular	48	60	48	23+14n	36	36	Φ8.5	Φ4.5
	M2 square	64	64	48	24.5+14n	48	48	Φ10	Φ4.5
	M2 rectangular	64	80	48	24.5+14n	48	48	Φ10	Φ4.5

UNIVERSAL CHANGEOVER SWITCH

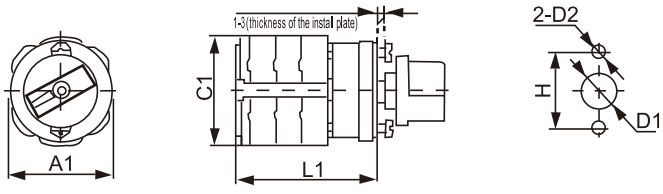
Description	Escutcheon plate	Dimensions(mm)				Installation(mm)			
		A	B	C	L	E	F	D1	D2
LW26-63	M2 square	64	64	66	29·2+21.5n	48	48	Φ10	Φ4.5
	M2 rectangular	64	80	66	29·2+21.5n	48	48	Φ10	Φ4.5
	M3 square	88	88	66	29·2+21.5n	68	68	Φ13	Φ4.5
	M3 rectangular	88	107	66	29·2+21.5n	68	68	Φ13	Φ4.5
LW26-125	M3 square	88	88	84	35+26.5n	68	68	Φ13	Φ6
	M3 rectangular	88	107	84	35+26.5n	68	68	Φ13	Φ6
LW26-160	M3 square	88	88	88	35+32.5n	68	68	Φ13	Φ6
	M3 rectangular	88	107	88		68	68	Φ13	Φ6

Re:n for number of layers.

Single hole installation



Double hole installation



Description	Dimensions(mm)						Installation(mm)					
	A	C	L	A1	C1	L1	E	F	G	H	D1	D2
LW26-10	Φ29	28	35+8n				Φ16.2	18	1.9			
LW26x-10	Φ29	28	39+12n				Φ16.2	18	1.9			
LW26-20	Φ39	43	35+9.6n				Φ30.5	33	4.8			
LW26-20	Φ39	43	42+9.6n	Φ39	43	24+9.6n	Φ22.3	24.1	3.2	30	Φ15	Φ5
LW26x-20	Φ39	46	42+14n	Φ39	46	25+14n	Φ22.3	24.1	3.2	30	Φ15	Φ5
LW26-25	Φ39	45.2	42+12.8n	Φ39	45.2	25+12.8n	Φ22.3	24.1	3.2	30	Φ15	Φ5
LW26-32F	Φ39	48	42+14n	Φ39	48	25+14n	Φ22.3	24.1	3.2	30	Φ15	Φ5

LW26GS

Series Pad-lock Type Switches

Application

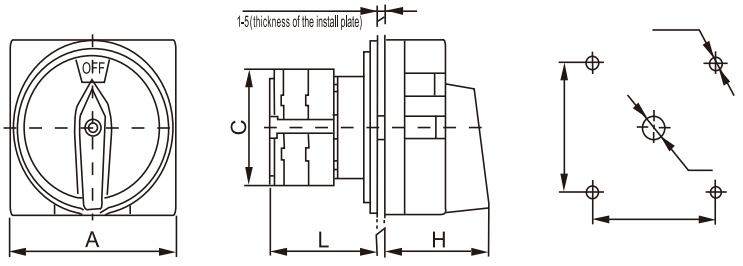
LW26GS series Pad-lock type switch is derivative of LW26 series rotary switches. installed in equipment where it requires a pad-lock to lock the switch in certain position, for instance to fix the switch in ON position to prevent the unauthorized personnel from operating the switch.
LW26GS series Pad-lock type switch complies with the CB1408.3 and IEC60947.3.
The LW26GS switch has 6 current ratings:20A,25A,32A,63A,125A and 160A.For 20A and 25A is able to install M1or M2 plate and for 32A and 63A is able to install M2 or M3 plate for 125A and 160A is able to install M3 plate only. The M1 plate is able to put 2 lockers M2 and M3 is able to put 3 lockers.
Re:1,-2,-3 represent M1,M2,M3.
The LW 26GS switch has two types:
Common type is with black plate black handle
Quick stop type with quick stop mark, yellow plate and red handle.

Main technical parameter

Description		LW26GS-20	LW26GS-25	LW26GS-32	LW26GS-63	LW2 GS-125	LW26GS-160
Rate working voltage Ue	V	440	440	440	440	440	440
Rate thermal current Ith	A	20	25	32	63	125	160
Rated working current Ie							
AC-21A	A	20	25	32	63	100	150
AC-22A	A	20	25	32	63	100	150
AC-23A	A	15	22	30	57	90	135
Power							
AC-23A	kW	7.5	11	15	30	45	75
Operation							
Non-load		8500	8500	8500	8500	8500	8500
Load		1500	1500	1500	1500	1500	1500
Total		10000	10000	10000	10000	10000	10000

1000

Dimensions and installation



Description	Escuthenon plate	Dimensions(mm)				Installation(mm)			
		A	C	L	H	E	F	D1	D2
LW26GS-20	M1	□48	43	42	33	36	36	Φ8.5	Φ4.5
LW26GS-20	M2	□64	43	42	42	48	48	Φ8.5	Φ4.5
LW26GS-25	M1	□48	45·2	50	33	36	36	Φ8.5	Φ4.5
LW26GS-25	M2	□64	45·2	51	42	48	48	Φ8.5	Φ4.5
LW26GS-32	M2	□64	58	55	42	48	48	Φ10	Φ4.5
LW26GS-32	M3	□88	58	55	52	68	68	Φ13	Φ6
LW26GS-63	M2	□64	66	72.5	42	48	48	Φ10	Φ4.5
LW26GS-63	M3	□88	66	72.5	52	68	68	Φ13	Φ6
LW26GS-125	M3	□88	84	88	52	68	68	Φ13	Φ6
LW26GS-162	M3	□88	88	100	52	68	68	Φ13	Φ6

LW26S

Series Key-lock Type Switches

Application

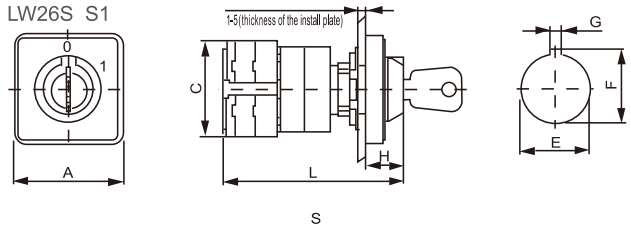
LW26S key-lock type switch is derivative of LW26 series rotary switches, installed in equipments which requires a key to lock the switch to prevent the unauthorized personnel from mis-operation. LW26S key-lock type switches comply with the CB1408.3 and IEC60947.3.

Main technical parameter

Description		LW26S-10	LW26S-20	LW26S-25	LW26S-32	LW26S-63
Rated working voltage Ue	V	440	440	440	440	440
Rated themal current Ith	A	10	20	25	32	63
Rated working current Ie						
AC-21A	A	10	20	25	32	63
AC-22A	A	10	20	25	32	63
AC-23A	A	7	15	22	30	57
Power P						
AC-23A	kW	3	7.5	11	15	30

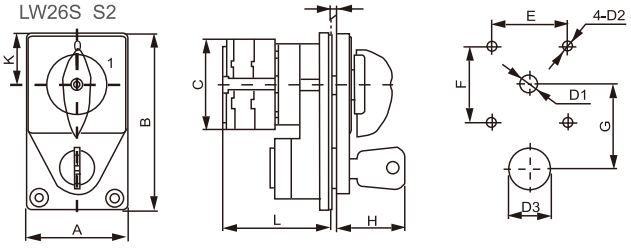
Dimensions and installation

LW26S S1



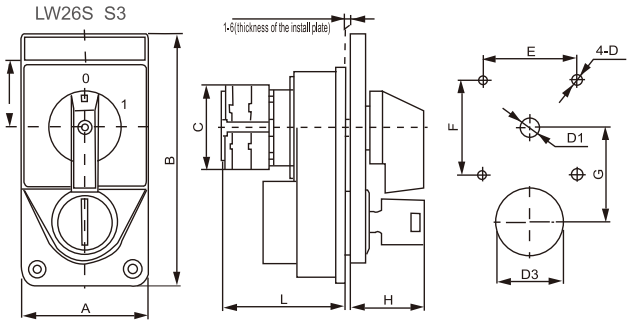
Description	Dimensions(mm)				Installation(mm)		
	A	C	H	L	E	F	G
LW26S-10	□30	28	8.5	71.5	Φ16.2	18	1.9
LW26S-20	□48	43	15.6	76.5	Φ22.3	24.1	3.2
LW26S-20	□64	43	15.6	76.5	Φ22.3	24.1	3.2
LW26S-25	□48	45.2	15.6	83	Φ22.3	24.1	3.2
LW26S-25	□64	45.2	15.6	83	Φ22.3	24.1	3.2
LW26S-32F	□48	48	15.6	86.5	Φ22.3	24.1	3.2
LW26S-32F	□64	48	15.6	86.5	Φ22.3	24.1	3.2

LW26S S2



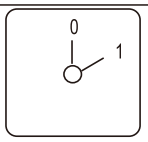
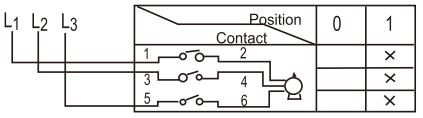
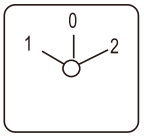
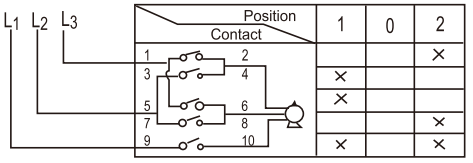
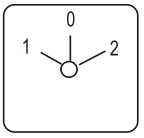
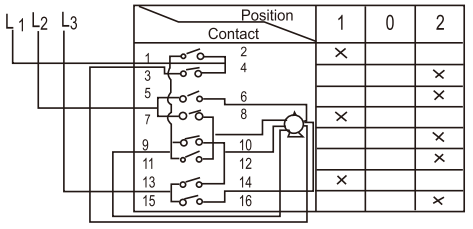
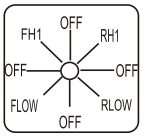
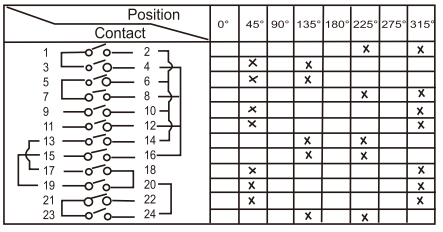
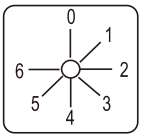
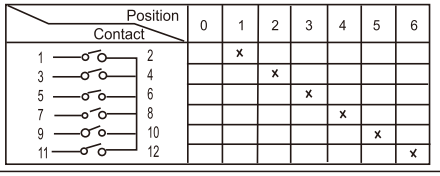
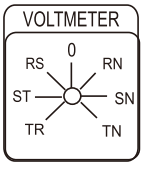
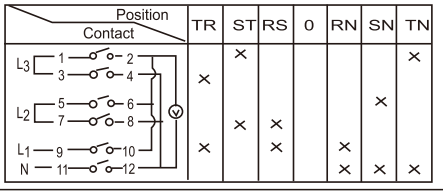
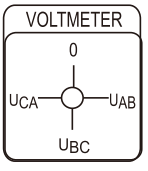
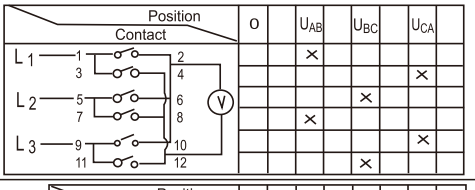
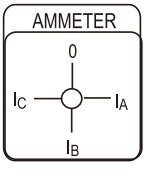
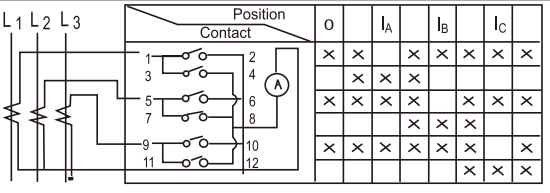
Description	Dimensions(mm)							Installation(mm)					
	A	B	K	C	L	H	S	E	F	G	D1	D2	D3
LW26S-20	48	84	24	43	51.5	32.5	1~4	36	36	40	Φ8.5	Φ4.5	Φ20
LW26S-25	48	84	24	45.2	58	32.5	1~4	36	36	40	Φ8.5	Φ4.5	Φ20
LW26S-32	64	112	32	58	72	34	1~6	48	48	48	Φ10	Φ4.5	Φ34
LW26S-32F	48	84	24	48	61.5	32.5	1~4	36	36	40	Φ8.5	Φ4.5	Φ20
LW26S-63	64	112	32	66	79	34	1~6	48	48	48	Φ10	Φ4.5	Φ34

LW26S S3



Description	Dimensions(mm)						Installation(mm)					
	A	B	K	C	L	H	E	F	G	D1	D2	D3
LW26S-20	64	126.5	32	43	51.5	34	48	48	48	Φ10	Φ4.5	Φ34
LW26S-25	64	126.5	32	45.2	58	34	48	48	48	Φ10	Φ4.5	Φ34
LW26S-32	64	126.5	32	58	72	34	48	48	48	Φ10	Φ4.5	Φ34
LW26S-32F	64	126.5	32	48	61.5	34	48	48	48	Φ10	Φ4.5	Φ34
LW26S-63	64	126.5	32	66	79	34	48	48	48	Φ10	Φ4.5	Φ34

Selection of typical contact diagrams

Function	Usage code or charachter code	Marks of plate	Contact diagrams
Start and run of motor	Q		
Start and revesing of motor	N		
Two speed motor start and run of motor	S		
Start and reversing of 2 speed motor	7206/6SN		
7 position with 0 position	H5881/3		
7 positiom 3 phase Voltmeter with 0 position	YH5/3		
4 position 3 phase Voltmeter with 0 position	YH3/3		
Three phase Ammeter with 0 position	LH3/3		

KDH

Series Welding Machine Switch

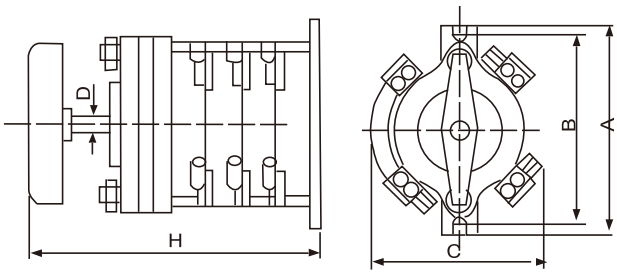
Application

KDH series welding machine switch used as the main control switch for BX3 series welding machine and for changeover of coil turns, coil at the stalls thus expanding the range of current regulation. Can also be used for other moving-coil transformers arc welding machine.

Main technical parameter

Description		KDH-125	KDH-160	KDH-200
Rated themal current Ith	A	125	160	200
Operation		0.01×10^6		
Operation frequency times/h		120		

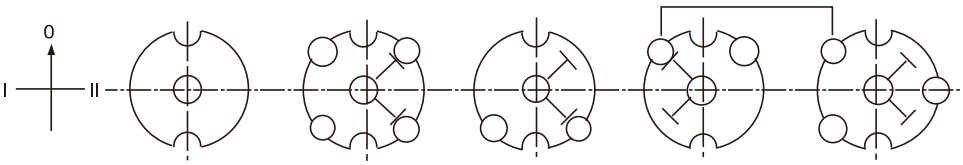
Dimensions and installstion



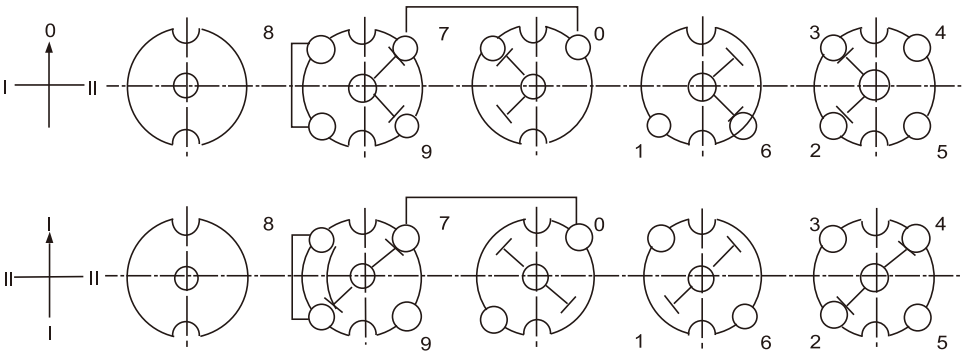
Description	Dimensions(mm)				
	A	B	C	H	D
KDH-125	142	112	120	170	Φ9
KDH-160	155	142	142	190	Φ9
KDH-200	155	142	142	194	Φ9

Contact diagrams

KDH-125 Contact diagrams



KDH-160,200 Contact diagrams



HZ10D-□/E119

Series Welding Machine Switch

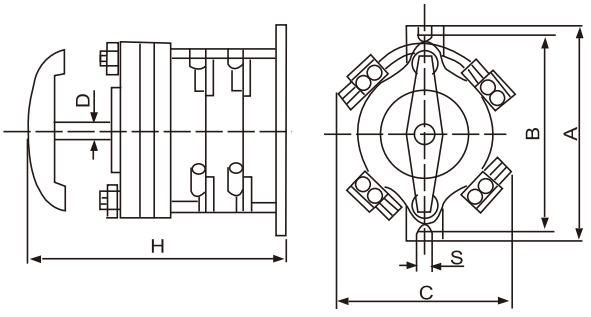
Application

HZ10D-□/E119 welding machine switch applied to welding machine for adjusting current of 100A and below AC50 Hz or 60Hz, rated voltage 380V and below for the change of main circuit auxiliary electrical appliances.

Main technical parameter

Description			HZ10D-25/E119		HZ10D-63/E119		HZ10D-100/E119		HZ10D-100/E119A	
Rated themal current	Ith	A	25		63		100		100	
Rated working voltage	Ue	V	240	440	240	440	240	44	240	440
Rated working current	Ie	A	25	25	63	63	100	10	100	100

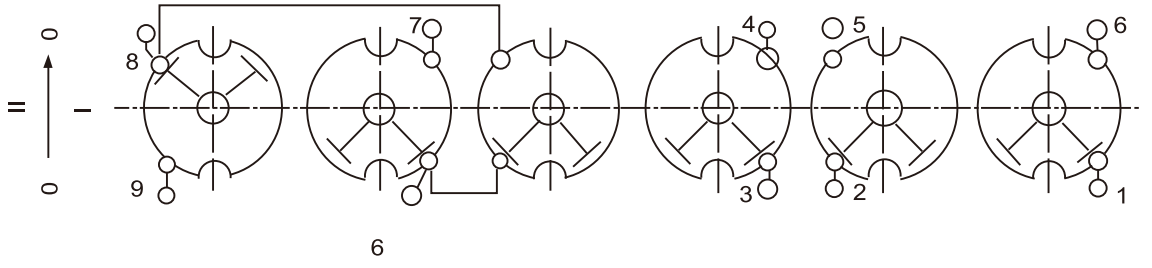
Dimensions and installstion



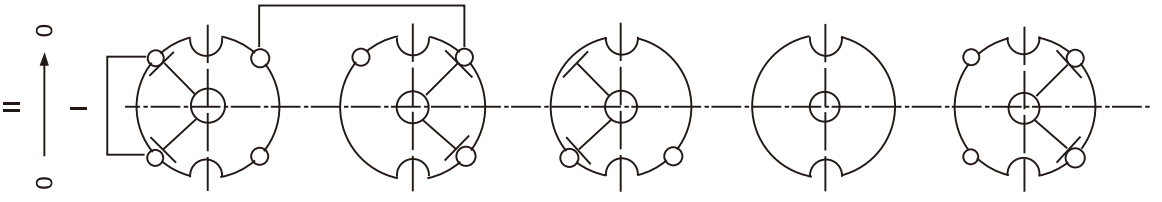
Description	Dimensions(mm)					
	A	B	C	D	H	S
HZ10D-25/E119	100	90	90	Φ8	140	6
HZ10D-63/E119	142	128	110	Φ9	165	7
HZ10D-100/E119	142	128	128	Φ9	210	7
HZ10D-100/E119A	142	128	128	Φ9	188	7

Contact diagrams

HZ10D-□/E119 Contact diagrams



HZ10D-□/E119A Contact diagrams



HZ10D

Series Combination Switch

Application

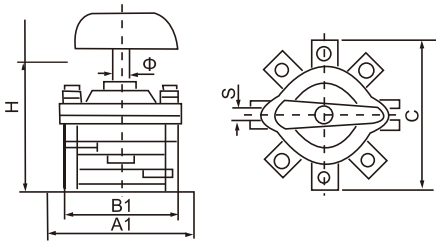
HZ10D mainly used in the circuit for unfrequent manual closing, breaking resistive and inductive mixed load, also for the control of AC motors.

Main technical parameter

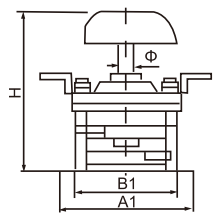
Description		HZ10D-10		HZ10D-25		HZ10D-63		HZ10D-100	
Rated themal current Ith	A	10		25		63		100	
Rated working voltage Ue	V	240	440	240	440	240	44	240	440
Rated working current Ie	A								
AC-3			3		6.3				
AC-20A/21A/22A			10		25		63		100
DC20A/21A		10		25		63		100	
Power P	kW	1.1		2.2					
Operation AC-22A									
Non-load		8500		8500		8500		8500	
Load		1500		1500		1500		1500	
Total		10000		10000		10000		10000	

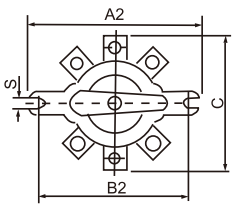
Dimensions and installstion

Before board

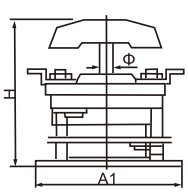


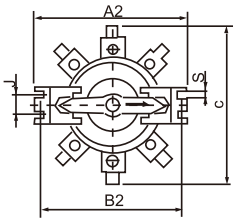
HZ10D-10, 25 Behind board





HZ10D-63, 100 Behind board





HZ10D

Series Combination Switch

Description	Dimensions(mm)					Installation(mm)			
	A1	A2	H	Φ	C	B1	B2	S	J
HZ10D-10/1	65	86	62	6		55	74	5	--
HZ10D-10/2	65	86	62	6		55	74	5	--
HZ10D-10/3	65	86	74	6	~58	55	74	5	--
HZ10D-25/2	100	144	98	8		90	100	6	--
HZ10D-25/3	100	144	108	8	~92	90	100	6	--
HZ10D-63/2	142	153	129	9		128	139	7	18
HZ10D-63/3	142	153	144	9	~154	128	139	7	18
HZ10D-100/3	142	153	152	9	~128	128	139	7	18

RDHG2B

Series Bar type Fuse-switch Disconnector

Application

RDHG2B series bar type fuse-switch disconnector can be applied in the distribution & motor circuit, AC 50Hz, rated voltage up to 660V, rated current up to 630A. Can infrequently manually break & connect circuit, and safely provide protection against overload & short-circuit.
Conform to IEC60497-3 standard.

Model No.

RD HG2B □ / 3 □

- 0- 3phases operate separately, 2- 3phases break simultaneously
- 3 poles
- Rated heating current
- Fuse-switch disconnector
- Company Code

Main technical parameter

Model		RDHG2B-160	RDHG2B-250	RDHG2B-400	RDHG2B-630
Rated thermal current		160A	250A	400A	630A
Rated insulation voltage Ui		690V			
Rated working voltage Ue		400V/660VAC			
Rated Working current Ie	400V/AC-23B	160A	250A	400A	630A
	660V/AC-22B	100A	200A	315A	425A
Rated making capacity (A r.m.s)		10Ie			
Rated breaking capacity (A r.m.s)		8Ie			
Rated limited short-circuit current		50kA			
Mechanical life (times)		3000	2000	1000	1000
Electrical life (times)		600	400	200	200
Power consumption		12W	24W	34W	48W
Weight (kg)		1.66	8.64	8.64	9.42

Outline & mounting dimension

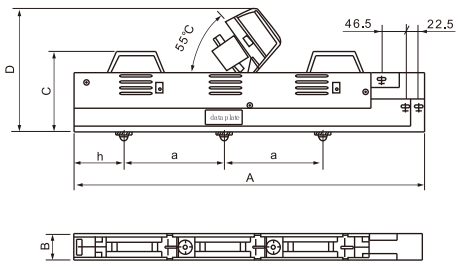


Figure 1 RDHG 2 B-160/30(single-Phase IndePendent Break)

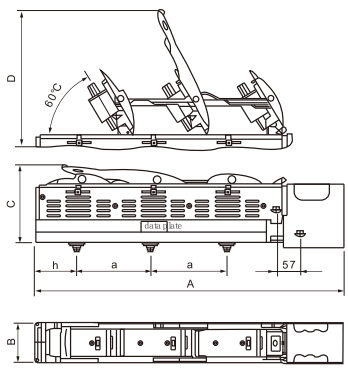


Figure 2 RDHG 2 B-250,400,600/32
(three-Phase simultaneous Disconnection)

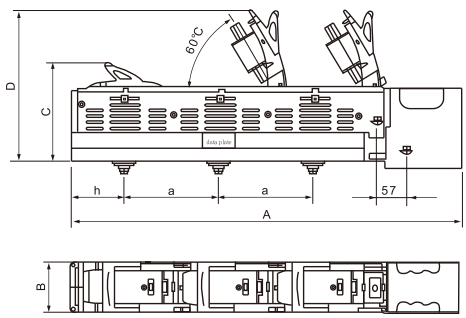


Figure 3 RDHG 2 B-250,400,600/30
(single-Phase Independent break)

HR17B

Series Spuare type Fuse-switch Disconnector

Application

HR17B series fuse-switch disconnector can be applied in the circuit, AC 50Hz, rated voltage 400V, rated current from 40 to 630A, as power switch, isolation switch and emergency switch, can be mounted on the busbar or fixed plate. Sealed inspection hole on the switch cover, with signal switch, testing switch inside.
With 2 poles, 3 poles, 4 poles types.
Conform to IEC60947-3 standard.

Model No.

HR 17 B - □ / □ □ J

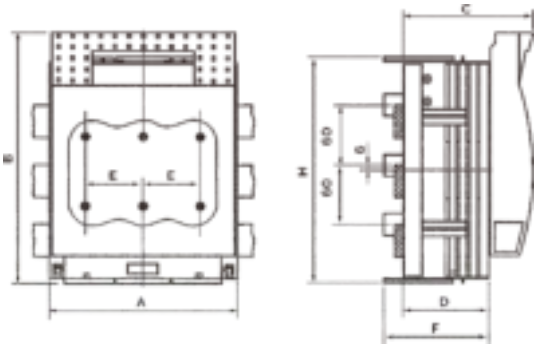
- J — Busbar mounted type, default is fixed installation type
- □ — 0-no auxiliary micro switch, 1- with auxiliary micro switch
- □ — Pole number
- □ — Rated heating current
- B — Category code
- 17 — Design code
- HR — Fuse-switch disconnector

Main technical parameter

Model	HR17B-40	HR17B-63	HR17B-160	HR17B-250	HR17B-400	HR17B-630
Rated insulation voltage Ui	690V					
Rated working voltage Ue	400V					
Rated working current Ie	40A	63A	160A	250A	400A	630A
Rated short-circuit making capacity Icm	400A	630A	1600A	2500A	4000A	6300A
Rated limited short-circuit current inc	50kA					
Usage category	AC-23B					
Matched fuse-link	14x51	22x58	NT00-160	NT1-250	NT2-400	NT3-630

Outline & mounting dimension

HR17B-160~630A busbar mounted type

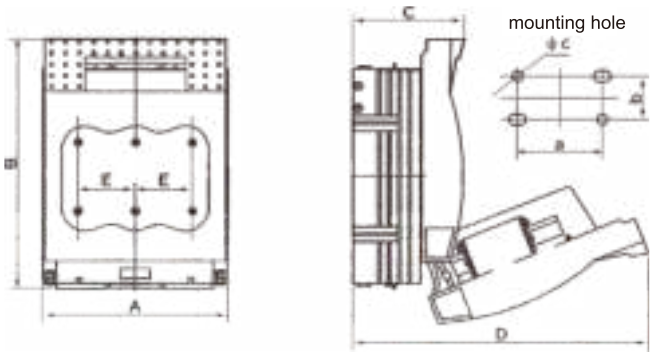


HR17B

Series Spuare type Fuse-switch Disconnector

Model	A	B	C	D	E	F	H
HR17B-160/30J	106	200	97	60	33	87	200
HR17B-250/30J	185	247	128	88	57	110	220
HR17B-400/30J	210	290	145	97	65	125	268
HR17B-630/30J	256	300	160	112	81	139	285

HR17B-40~630A fixed mounted type



Model		A	B	C	D	E	a	b	φ
HR17B-40	2 poles	55	116	76	150	21	25	/	φ6
	3 poles	76	116	76	150	21	42	/	φ6
HR17B-63	2 poles	74	116	76	150	31	35	/	φ6
	3 poles	105	116	76	150	31	62	/	φ6
HR17B-160	2 poles	75	200	83	205	33	43	25	φ7
	3 poles	106	200	83	205	33	66	25	φ7
	4 poles	138	200	83	205	33	100	25	φ7
HR17B-250	2 poles	128	247	110	295	57	72	50	φ11
	3 poles	185	247	110	295	57	114	50	φ11
	4 poles	242	247	110	295	57	172	50	φ11
HR17B-400	2 poles	145	290	125	340	65	80	50	φ11
	3 poles	210	290	125	340	65	130	50	φ11
	4 poles	276	290	125	340	65	195	50	φ11
HR17B-630	2 poles	175	300	145	360	81	90	50	φ11
	3 poles	256	300	145	360	81	162	50	φ11
	4 poles	340	300	145	360	81	243	50	φ11

RDH5

Series Isolation switch

RDH5

RDH5C

RDH5Z1

RDH5Z2

RDH5R

Product description

RDH5(HGL) Series Load isolation switch is suitable for the AC 50Hz, rated voltage below400V, DC rated voltage below 440V, rated current of 125A~1600A, as the usage of infrequently connecting and breaking the circuit and isolating the circuit in the distribution system, where the switch above 1000A is only used for electrical isolation.

Selection guidance

RDH5	C	400	3	J	400
Product name	Type	frame current	Pole	handle & contact	thermal current
Isolation switch	C:Side operation isolation switch Z1：double changeover switch, upper & lower circuits Z2:Double changeover switch, right & left circuits R:fues type isolation switch	63 100 160 250 400 630 1000 1250 1600 2000 2500 3150	3：3P 4：4P	Default: operation in the cabinet J:operation out side Cabinet 11：auxiliary contact 1NO+1NC 22:auxiliary contact 2NO+2NC K:Visual window	63 100 160 250 400 630 1000 1250 1600 2000 2500 3150

Normal working condition and installation condition

- Height above sea level does not exceed 2000m
- Environment temperature not exceed+40℃，not less than-5℃
- Relative humidity does not exceed 90%
- No explosive dangerous medium and no gas and dust sufficient to corrode metal and destroy insulation
- There is no significant shaking and shock vibration
- Without rain and snow environment.

Remark: If the using environment range is not within-5℃~+45℃, should notify the factory

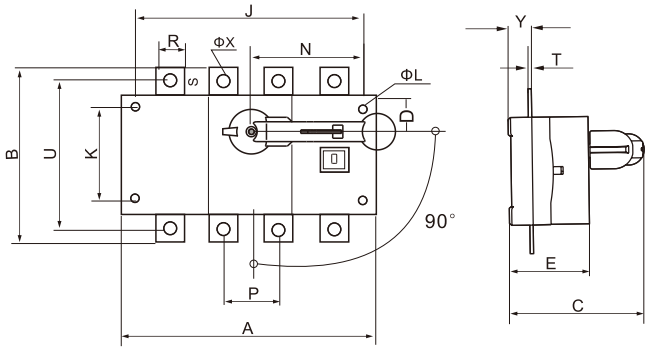
Main technical parameter

1NO1NC	11	NO+NC	suit RDH5(HGL),RDH5(HGL)C
2NO2NC	22	2NO+2NC	suit RDH5(HGL),RDH5(HGL)C,RDH5(HGL)Z

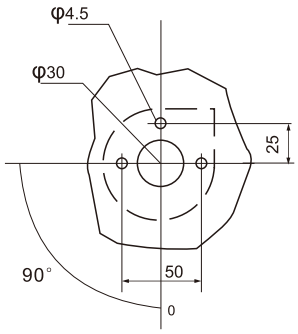
Rated current (A)	125	160	200	250	315	400	500	630	1000	1250	1600
Dielectric strength(V)	5000	5000	5000	5000	8000	8000	8000	8000	10000	10000	10000
Rated isolation volt.	800	800	800	800	1000	1000	1000	1000	1000	1000	1000
Rated breaking capacity	1000	1000	1600	1600	2500	3200	3200	3200	8000	8000	8000
Rated making capacity	1250	1250	2000	2000	3150	4000	4000	4000	10000	10000	10000
Life	10000	10000	10000	10000	5500	5500	5500	5500	4000	4000	3000

Dimension & mounting size

RDH5-125A~630A exterior and mounting size

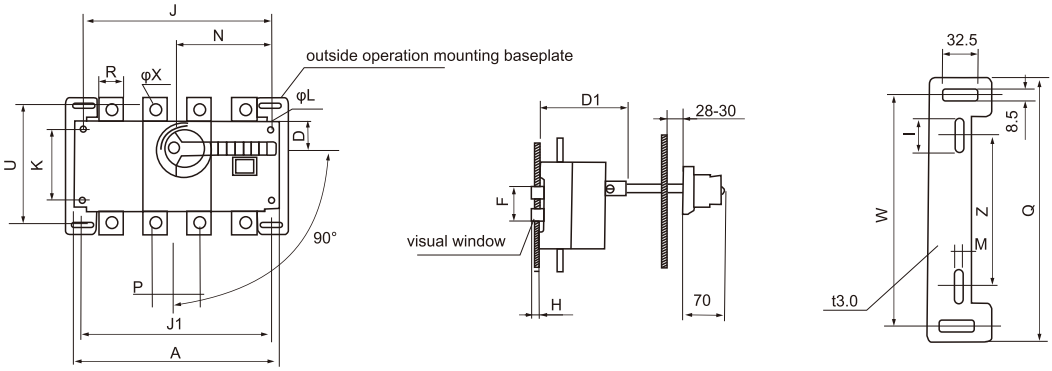


RDH5-125A~630 operation inside cabinet



operation outside cabinet , handle base mounting size

RDH5(HGL)-125A~630A direct operation

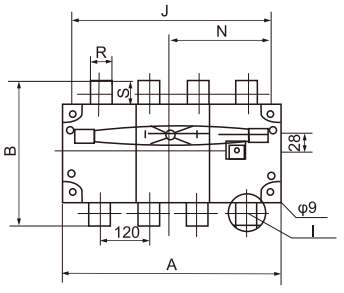


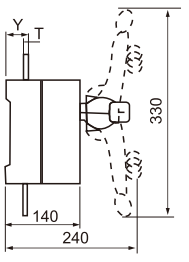
RDH5(HGL)-125A~630A/JK operation outside cabinet mounting baseplate

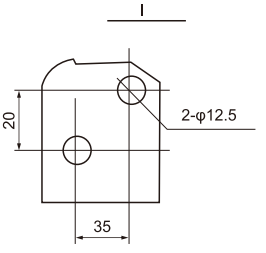
Amp.	Baseplate size				
	I	M	Z	W	Q
125A	55	5.5	85	190	218
160A	55	5.5	85	190	218
200A	55	5.5	85	190	218
250A	55	5.5	85	190	218
315A	60	6.5	130	240	270
400A	60	6.5	130	240	270
500A	60	6.5	130	240	270
630A	60	6.5	130	240	270

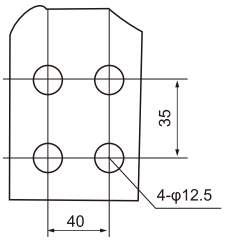
Model	Exterior and mounting size																		
	A	B	C	D	D1	E	φL	J	K	N	P	R	S	T	U	φX	Y	F	H
125A/3	140	135	125	27	92	73	5.5	120	65	85	36	20	25	3.5	115	8.5	23	49	10
125A/4	170	135	125	27	92	73	5.5	150	65	85	36	20	25	3.5	115	8.5	23	49	10
160A/3	140	135	125	27	92	73	5.5	120	65	85	36	20	25	3.5	115	8.5	23	49	10
160A/4	170	135	125	27	92	73	5.5	150	65	85	36	20	25	3.5	115	8.5	23	49	10
200A/3	180	170	145	35	98	86	5.5	160	90	115	50	25	30	3.5	140	10.5	25	77	15
200A/4	230	170	145	35	98	86	5.5	210	90	115	50	25	30	3.5	140	10.5	25	77	15
250A/3	180	170	145	35	98	86	5.5	160	90	115	50	25	30	3.5	140	10.5	25	77	15
250A/4	230	170	145	35	98	86	5.5	210	90	115	50	25	30	3.5	140	10.5	25	77	15
315A/3	230	240	190	50	138	110	7	210	140	135	65	32	40	5	206	10.5	37	94	20
315A/4	290	240	190	50	138	110	7	270	140	135	65	32	40	5	206	10.5	37	94	20
400A/3	230	240	190	50	138	110	7	210	140	135	65	32	40	5	206	10.5	37	94	20
400A/4	290	240	190	50	138	110	7	270	140	135	65	32	40	5	206	10.5	37	94	20
500A/3	230	260	190	50	138	110	7	210	140	135	65	40	50	5	220	12.5	37	94	20
500A/4	290	260	190	50	138	110	7	270	140	135	65	40	50	5	220	12.5	37	94	20
630A/3	230	260	190	50	138	110	7	210	140	135	65	40	50	5	220	12.5	37	94	20
630A/4	290	260	190	50	138	110	7	270	140	135	65	40	50	5	220	12.5	37	94	20

RDH5(HGL)-1000A~1600A exterior and mounting size





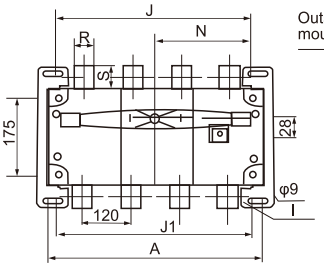


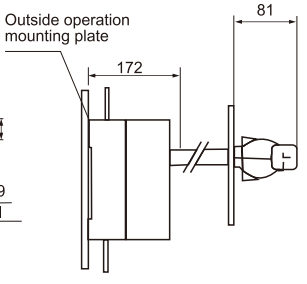


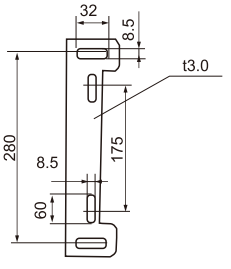
RDH5(HGL)-1000A~1600A

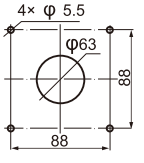
1000A

1250A~1600A

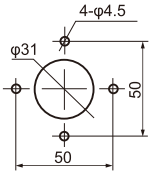








A type handle



B type handle

RDH5(HGL)-1000A~1600A/J

outside operation mounting base plate

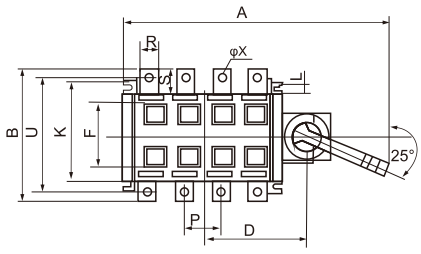
outside operation mounting base plate

outside handle base mounting size

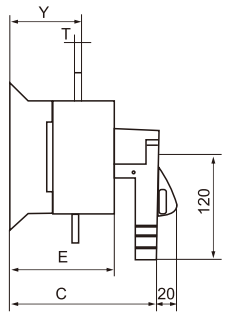
DISCONNECTOR

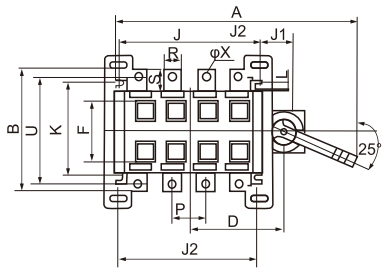
Amp	Exterior and mounting size								
	A	B	J	J1	N	R	S	T	Y
1000A/3	378	312	353	353	174	60	56	8	48
1000A/4	498	312	473	473	234	60	56	8	48
1250A/3	378	338	353	353	174	80	69	8	48
1250A/4	498	338	473	473	234	80	69	8	48
1600A/3	378	338	353	353	174	80	69	10	49
1600A/4	498	338	473	473	234	80	69	10	49

RDH5(HGL)C-125~630A side operation switch exterior and mounting size

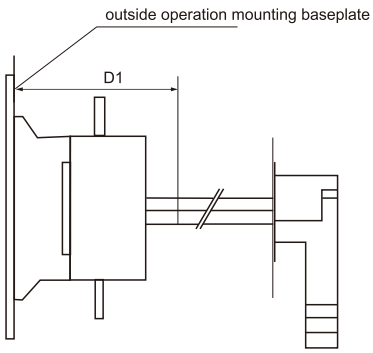


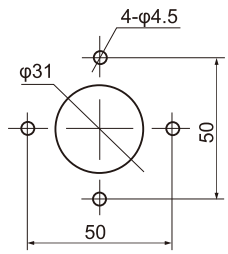
RDH5(HGL)C-125~630A/K

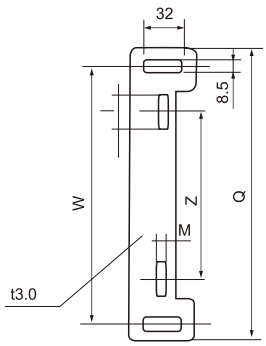




RDH5(HGL)C-125~630A/J outside cabinet mounting baseplate





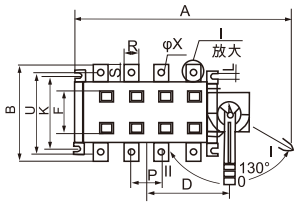


outside handle base mounting size

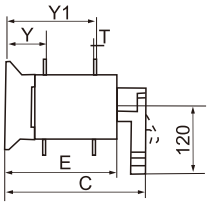
Amp	Baseplate size			
	I	Z	W	Q
125A	3	115	240	270
160A	3	115	240	270
200A	3	115	240	270
250A	3	115	240	270
315A	4	170	280	311
500A	4	170	280	311
630A	4	170	280	311

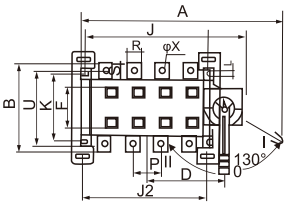
Amp	Exterior and mounting size																		
	A	B	C	D	D1	E	J	J1	J2	K	P	R	S	T	U	φX	Y	L	F
125A/3	267	135	147	89	125	102	120	65	120	95	36	20	25	3.5	115	9	60.5	7	53
125A/4	297	135	147	104	125	102	150	65	150	95	36	20	25	3.5	115	9	60.5	7	53
160A/3	267	135	147	89	125	102	120	65	120	95	36	20	25	3.5	115	9	60.5	7	53
160A/4	297	135	147	104	125	102	150	65	150	95	36	20	25	3.5	115	9	60.5	7	53
200A/3	308	170	153	110	131	108	160	65	160	110	50	25	30	3.5	140	11	66.5	11	80
200A/4	358	170	153	135	131	108	210	65	210	110	50	25	30	3.5	140	11	66.5	11	80
250A/3	308	170	153	110	131	108	160	65	160	110	50	25	30	3.5	140	11	66.5	11	80
250A/4	358	170	153	135	131	108	210	65	210	110	50	25	30	3.5	140	11	66.5	11	80
315A/3	401	240	187	150	155	132	210	77	210	180	65	32	40	5	206	11	80	13	104
315A/4	461	240	187	180	155	132	275	77	275	180	65	32	40	5	206	11	80	13	104
400A/3	401	240	187	150	155	132	210	77	210	180	65	32	40	5	206	11	80	13	104
400A/4	461	240	187	180	155	132	275	77	275	180	65	32	40	5	206	11	80	13	104
500A/3	401	240	187	150	155	132	210	77	210	180	65	40	50	6	220	13	80	13	104
500A/4	461	240	187	180	155	132	275	77	275	180	65	40	50	6	220	13	80	13	104
630A/3	401	260	187	150	155	132	210	77	210	180	65	40	50	6	220	13	80	13	104
630A/4	461	260	187	180	155	132	275	77	275	180	65	40	50	6	220	13	80	13	104

RDH5(HGL)Z-125A~630A switch exterior and mounting size



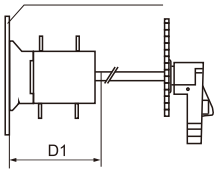
RDH5(HGL)Z-125~630A

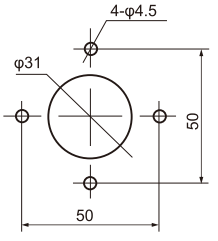




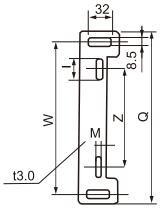
RDH5(HGL)Z-125~630A/J

outside cabinet operation mounting baseplate





outside operation mounting baseplate

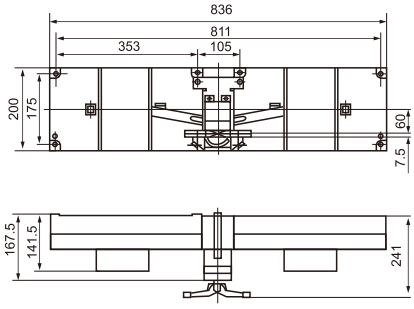


Outside handle base mounting size

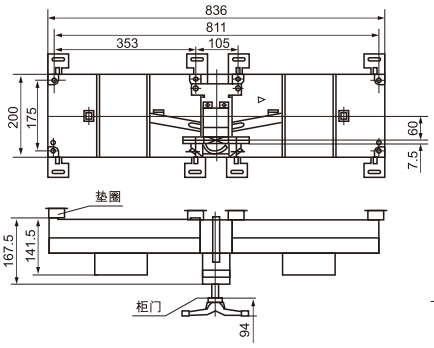
Amp	Baseplate size			
	1	Z	W	Q
125A	3	115	240	270
160A	3	115	240	270
200A	3	115	240	270
250A	3	115	240	270
315A	4	170	280	311
500A	4	170	280	311
630A	4	170	280	311

Model	OUTLINE AND INSTALLATION DIMENSION																				
	A	B	C	D	D1	E	J	J1	J2	K	L	P	R	S	T	U	φX	Y	Y1	F	H
125A/3	267	135	217	89	195	172	120	65	120	95	7	36	20	25	3.5	115	9	60.5	132	53	115
125A/4	297	135	217	104	195	172	150	65	120	95	7	36	20	25	3.5	115	9	60.5	132	53	115
160A/3	267	135	217	89	195	172	120	65	120	95	7	36	20	25	3.5	115	9	60.5	132	53	115
160A/4	297	135	217	104	195	172	150	65	120	95	7	36	20	25	3.5	115	9	60.5	132	53	115
200A/3	308	170	237	110	215	192	160	65	160	110	11	50	25	30	3.5	140	9	66.5	138	80	115
200A/4	358	170	237	135	215	192	210	65	210	110	11	50	25	30	3.5	140	11	66.5	138	80	115
250A/3	308	170	207	110	215	192	210	65	160	110	11	50	25	30	3.5	140	11	66.5	138	80	115
250A/4	358	170	307	135	215	192	275	65	210	110	11	50	25	30	3.5	140	11	66.5	138	80	115
315A/3	401	240	307	150	275	252	210	77	210	180	13	65	32	40	5	206	11	80	192	104	145
315A/4	461	240	307	180	275	252	275	77	275	180	13	65	32	40	5	206	11	80	192	104	145
400A/3	401	240	307	150	275	252	210	77	210	180	13	65	32	40	5	206	11	80	192	104	145
400A/4	461	240	307	180	275	252	275	77	275	180	13	65	32	40	5	206	11	80	192	104	145
500A/3	401	240	307	150	275	252	210	77	210	180	13	65	40	50	5	220	13	80	192	104	145
500A/4	461	240	307	180	275	252	275	77	275	180	13	65	40	50	5	220	13	80	192	104	145
630A/3	401	260	307	150	275	252	210	77	210	180	13	65	40	50	5	220	13	80	192	104	145
630A/4	461	260	307	180	275	252	275	77	275	180	13	65	40	50	5	220	13	80	192	104	145

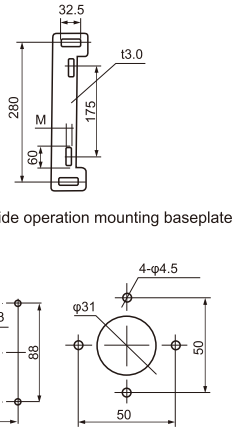
RDH5(HGL)Z-1000A~1600A switch exterior and mounting size



RDH5(HGL)Z-1000A~1600A

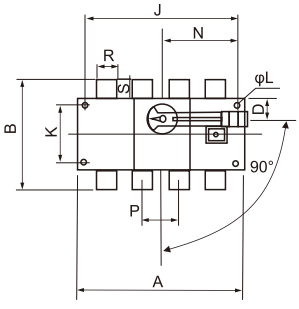


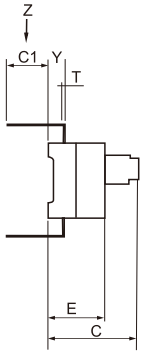
RDH5(HGL)Z-1000A~1600A/J

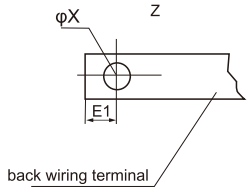


Outside cabinet operation mounting baseplate

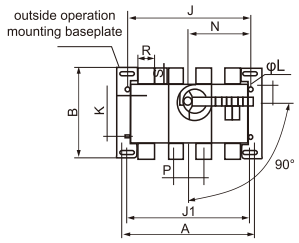
RDH5(HGL)Z-125A~630A/B back connection switch exterior and mounting size

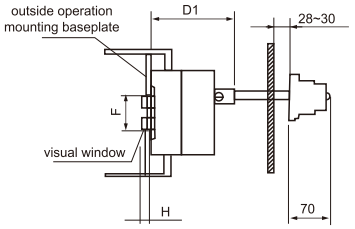




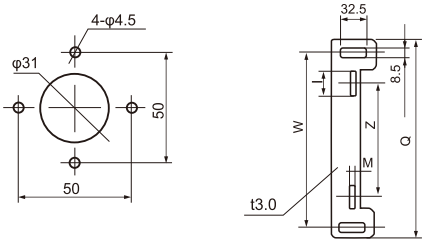


RDH5(HGL)Z-125A~630A/B direct operation





RDH5(HGL)Z-125A~630A/BJK outside cabinet operation



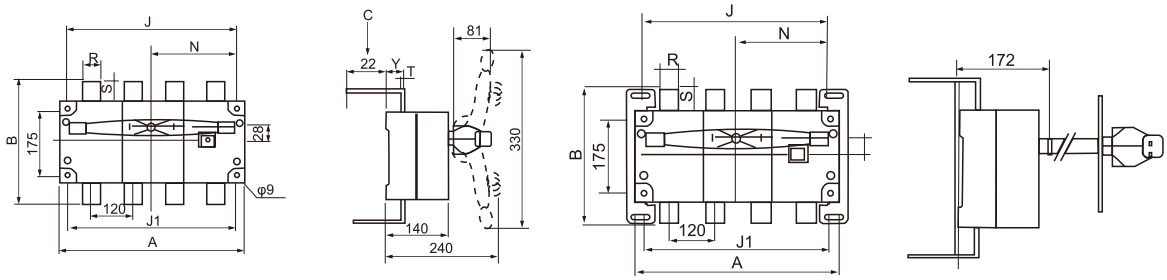
Outside cabinet handle base mounting size

Amp.	Baseplate size		
	Z	W	Q
125A	85	190	218
160A	85	190	218
200A	85	190	218
250A	85	190	218
315A	130	240	270
400A	130	240	270
500A	130	240	270
630A	130	240	270

Outside cabinet operation mounting baseplate

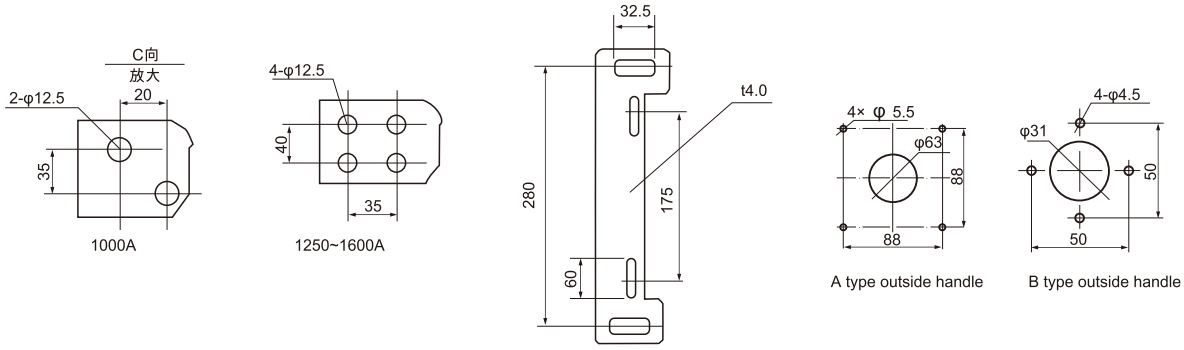
Model	OUTLINE AND INSTALLATION DIMENSION																				
	A	B	C	C1	D	D1	E	E1	φL	J	J1	K	N	P	R	S	T	φX	Y	F	H
125A/3	140	135	125	5	27	92	73	10	5.5	120	120	65	85	36	20	25	3.5	9	25	53	10
125A/4	170	135	125	5	27	92	73	10	5.5	150	150	65	85	36	20	25	3.5	9	25	53	101
160A/3	140	135	125	5	27	92	73	10	5.5	120	120	65	85	36	20	25	3.5	9	25	53	10
160A/4	170	135	125	5	27	92	73	10	5.5	150	150	65	85	36	20	25	3.5	9	25	53	10
200A/3	180	170	138	10	35	98	86	15	5.5	160	160	90	115	50	25	30	3.5	11	25	80	15
200A/4	230	170	138	10	35	98	86	15	5.5	210	210	90	115	50	25	30	3.5	11	25	80	15
250A/3	180	170	138	10	35	98	86	15	5.5	160	160	90	115	50	25	30	3.5	11	25	80	15
250A/4	230	170	138	10	35	98	86	15	5.5	210	210	90	115	50	25	30	3.5	11	25	80	15
315A/3	230	240	165	3	50	135	110	17	7	210	210	140	135	50	32	40	5	11	37	104	20
315A/4	295	240	164	3	50	135	110	17	7	275	275	140	135	65	32	40	5	11	37	104	20
400A/3	230	240	165	3	50	135	110	17	7	210	210	140	135	65	32	40	5	11	37	104	20
400A/4	295	240	165	3	50	135	110	17	7	275	275	140	135	65	32	40	5	11	37	104	20
500A/3	230	260	165	3	50	135	110	20	7	210	210	140	135	65	40	50	5	132	37	104	20
500A/4	295	260	165	3	50	135	110	20	7	275	275	140	135	65	40	50	5	12	37	104	20
630A/3	230	260	165	3	50	135	110	20	7	210	210	140	135	65	40	50	5	12	37	104	20
630A/4	295	260	165	3	50	135	110	20	7	275	275	140	135	65	40	50	5	12	37	104	20

RDH5(HGL)-1000A~1600A/B back connection - switch exterior and mounting size



RDH5(HGL)-1000A~1600A/B

RDH5(HGL)-1000A~1600A/JB



Outside cabinet operation mounting baseplate

Outside cabinet handle base mounting size

Amp	Exterior and mounting size								
	A	B	J	J1	N	R	S	T	Y
1000A/3	378	353	312	353	174	60	56	8	48
1000A/4	498	473	312	473	234	60	69	8	48
1250A/3	378	353	338	353	174	80	69	8	48
1250A/4	498	473	338	473	234	80	56	8	48
1600A/3	378	353	338	353	174	80	69	10	49
1600A/4	498	473	338	473	234	80	69	10	49

RDH5(HGL)-125A~630A/H behind cabinet operation switch mounting size same as RDH5(HGL)C-125A~630A switch mounting size
RDH5(HGL)-125A~630A/JH behind cabinet operation switch mounting size same as RDH5(HGL)-125A~ 630A/J outsize cabinet switch mounting size

RDH5R

Series Isolation Switchgear Assembly

Product overview

RDH5R series isolating switch fuse sets are suitable for 50Hz AC, rated voltage up to 660V, rated current up to 630A industrial distribution networks: widely used in distribution circuits and motor circuits with high short circuit current, as manual infrequent Connection and disconnection
For circuit breakers or electrical isolation: can be operated under load and used for circuit short circuit protection.
Products comply with IEC 60947-3 and GB/T 14048.3 standards.

Selection Guide

RDH5R	160A	2	J
Product name	Rated current	Extremely an anagram	Handheld assistance
Isolation switch fuse group	160A 250A 400A 630A	2: The diode 3: Three poles 4: Quadrupole	No: In-cabinet operation. J: Off-site operation.

Architectural feature

- The switch is made of glass fiber reinforced unsaturated polyester molding plastic and manual handle, which has high dielectric performance, protection ability and reliable operation safety.
- The switch adopts spring energy storage, instantaneous release of the acceleration closing mechanism and contact structure which connects and disconnects multiple parallel breaks at the same time, which improves the electrical performance and mechanical performance of the product.
- Switches 160A,250A and 400A are designed in a modular design, while 630A is designed in an integral structure. It can ensure reliable overcurrent and short circuit safety protection during load operation and switching.
- Switches are divided into 2 poles, 3 poles and 4 poles (3 poles + can open and close the neutral pole).
- The handle can be directly installed on the switch to operate (called cabinet operation),or can be operated outside the distribution cabinet through an extended shaft (called cabinet operation).
- Auxiliary contacts and back wiring can be provided as required

Basic technical data

Main technical parameters of RDH5R series isolating switch fuse group (See Table I)

Table 1

Product model	RDH5R-160	RDH5R-250	RDH5R-400	RDH5R-630
Nominal insulation voltage Ui	660V	660V	660V	660V
Rated frequency	50Hz	50Hz	50Hz	50HZ
Use classes	AC-23B	AC-23B	AC-23B	AC-23B
Rated operational voltage Ue	380V	380V	380V	380V
Rated operational current Ie	160A	250A	400A	630A
Rated on-load capacity(peak)	1600A	2500A	4000A	6300A
Rated breaking capacity(peak)	1280A	2000A	3200A	5040A
Rated limit short circuit current (peak)	50KA	50KA	50KA	50KA

Table 1
Continued

Mechanical life (times)	3000	3000	2000	1000
Service life (times)	1000	1000	800	500
Fuse element used	RDT16-00	RDT16-1	RDT16-2	RDT16-3
Operating torque (N·m)	10	15	20	30
Weight (kg) excluding handle	1. 9	3. 3	4. 8	14. 6

Note: Rated current of auxiliary contacts(A C-15): 3A

Outline overal and installing dimensions

The shape and installation dimensions of RDH5R-160-630A(see Figure 1-4 and Table 2)

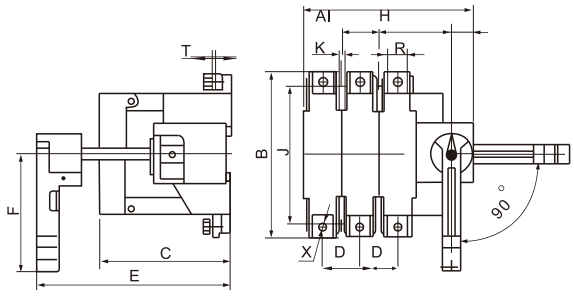


Figure 1 RDH5R-160A ,250A ,400A(cabinet operation)

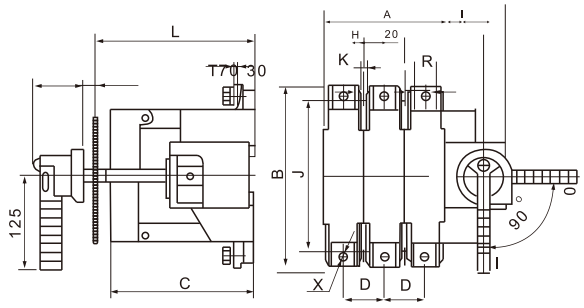


Figure 2 RDH5R-160A ,250A ,400A(out-of-cabinet operation)

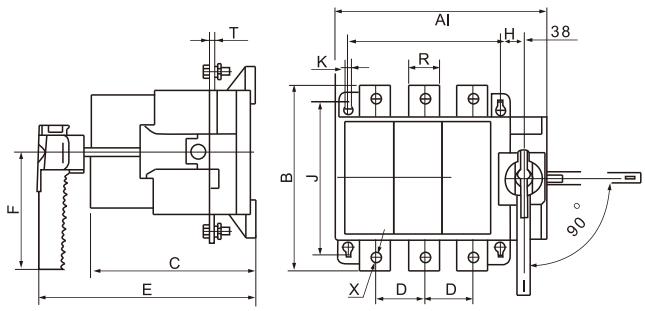


Figure 3 RDH5R-630A (cabinet operation)

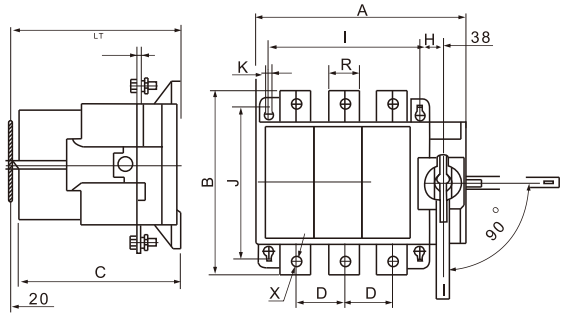


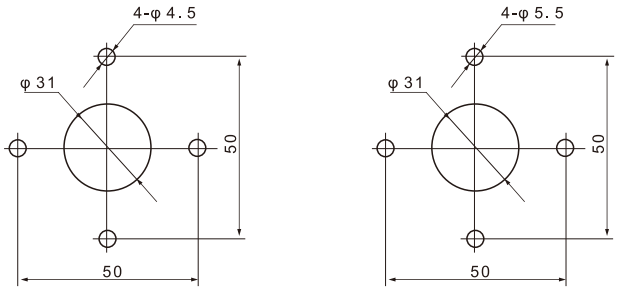
Figure 4 RDH5R-630A (out-of-cabinet operation)

The shape and installation dimensions of RDH5R-160-630 are shown in Table 2

Table 2

Product model	Outline dimension						Installation size				Term inator size			
	A	B	C	D	E	F	H	I	J	K	L	R	T	X
RDH5R-160/3	163	162	128	37	190	115	68	37	125	6	220-300	20	2. 5	M8
RDH5R-160/4	200	162	128	37	190	115	68	74	125	6	220-300	20	2. 5	M8
RDH5R-250/3	235	196	148	60	200	145	92	60	140	6	220-300	34	2. 5	M10
RDH5R-250/4	295	196	148	60	200	145	92	120	140	6	220-300	34	2. 5	M10
RDH5R-400/3	278	205	150	67	200	145	122	67	150	6	220-300	50	2. 5	M10
RDH5R-400/4	345	205	150	67	200	145	122	134	150	6	220-300	50	2. 5	M10
RDH5R-630/3	346	300	270	80	350	190	38	250	250	9	300-380	50	7	M12
RDH5R-630/4	426	300	270	80	350	190	38	330	250	9	300-380	50	7	M12

Panel opening size (see Figure 5)



RDH5R-160A、250A、400A　　RDH5R-630A

Figure 5 Panel0 pening Size (off Cabinet 0peration)

Use the installation instructions

- ☐ The switch should be installed horizontaly, and the switch should be in the open position before installation.
- ☐ The switch should be equipped with NT type fuse, whose performance should meet the requirements of GB13539.1 and 1GB13539.2,and the fuse should have the corresponding rated current and short circuit braking capacity, when the switch is used in the motor circuit, the rated current of the fuse is alowed to be greater than the agreed heating current of the switch.
- ☐ The "L " in installation dimensions refers to the factory-set stand and installation depth, representing the distance from the mounting plate (or foot) to the panel surface. During installation, adjust the square shafts depth within the specified L-range based on the switch-to-cabinet-door distance. If the distance is shorter than the square shaft accordingly. A fter ad justm ent, securely fasten the bolts. This procedure applies when required by users.

For installation depths other than "L, ", please specify at the tim e ofordering.

- ☐ Detem ine the installation center position of the handle according to the shape and installation size of the switch, open an opening on the cabinet door panel according to the panel opening size (see Figure 5), and then fix the handle on the cabinet door panel.
- ☐ Turning the handle clockwise closes the switch, while counterclockwise rotation disconnects it. Before each operation, check the switch’s status: when in the open position (0),clockwise rotation is required to close the switch; when in the closed position(I), counterclockwise rotation in necessary to disengage it.

Usernotes

- ☐ The RDH5R series switch must be used with a fuse, which can be provided by the user, but please use a good fuse to prevent excessive temperature rise.
- ☐ The price of the switch provided by our company does not include the fuse. If the user asks for it when ordering, our company can provide the fuse as a set, but generally it is not installed on the switch body.
- ☐ Please indicate the switch model and specification, number of poles and rated current of fuse w hen ordering.

RDT16(NT0)

Series Filled Tube Type Knife Contact Fuse

Application

RDT16 (NT0) series filled tube type knife contact fuse can be applied in the industrial electrical distribution device of AC 50Hz, rated voltage up to 500/690V, rated current up to 1250A, for circuit overload & shortcircuit protection.
Conform to IEC60269-2 standard.

Model No.

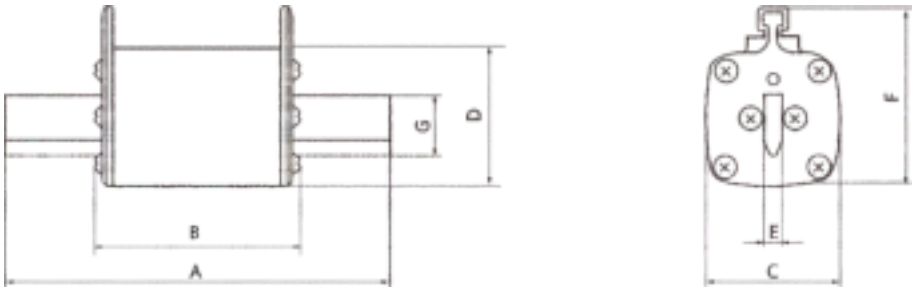
RD T 16 - □ / □

- Rated Current
- Size
- Design Code
- Fuse
- Company Code

Main technical parameter

Size	Rated Voltage	Rated breaking capacity	Rated current (A)		Power factor Cosφ
			Fuse	Fuse link	
00C	500V 660V	120kA 50kA	100	6, 10, 16, 20, 25, 32, 40, 50, 63, 80, 100	0.1~0.2
00			160	6, 10, 16, 20, 25, 32, 40, 50, 63, 80, 100, 125, 160	
0			160	16, 20, 25, 32, 40, 50, 63, 80, 100, 125, 160	
1			250	80, 100, 125, 160, 200, 250	
2			400	125, 160, 200, 250, 315, 400	
3			630	315, 400, 500, 630	
4	500V	100kA	1000	800, 1000	
4a			1200	1000, 1250	

Outline & mounting dimension

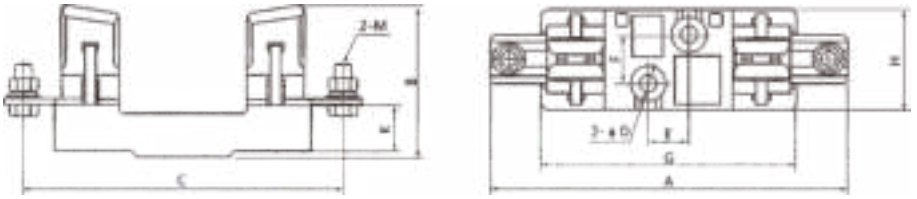


Fuse link

RDT16(NT0)

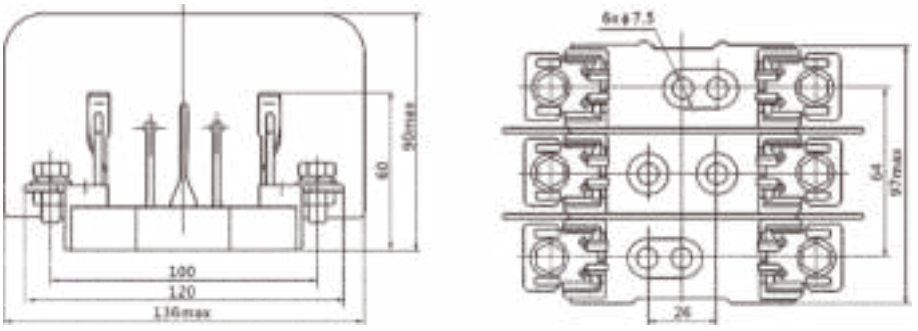
Series Filled Tube Type Knife Contact Fuse

Size	A	B	C	D	E	F	G
00C	78.5	49	21	40.5	6	42.5	15
00	78.5	49	29	45	6	56.5	15
0	126	68	29	45	6	56.5	15
1	135	68	48	49	6	62	20
2	150	68	56	59	6	70	25
3	150	68	67	68	6	85	32
4	200	90	97	100	8	113	50
4A	200	90	97	100	8	113	50

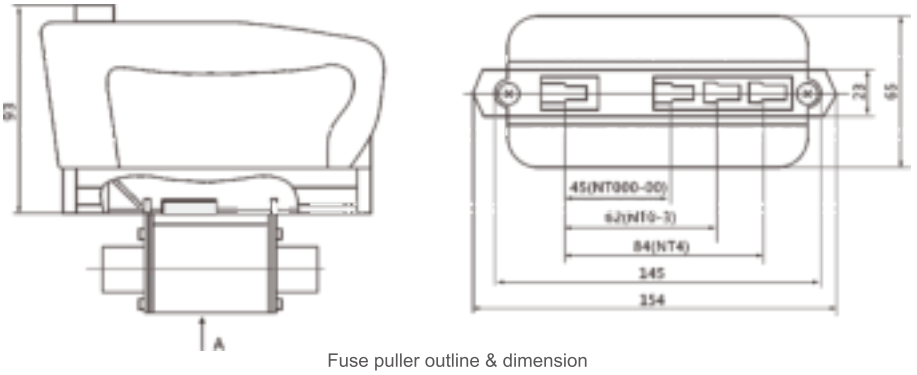


Fuse base

Size	A	B	C	D	E	F	G	H	K	M
00	120	61	100	7.5	25	-	90	30	24	8
1	200	80	175	10.5	25	30	142	58	30	10
2	224	90	200	10.5	25	30	160	62	36.5	10
3	250	105	210	10.5	25	30	160	62	36.5	12
4	304	145	260	13	30	45	-	96	44	12

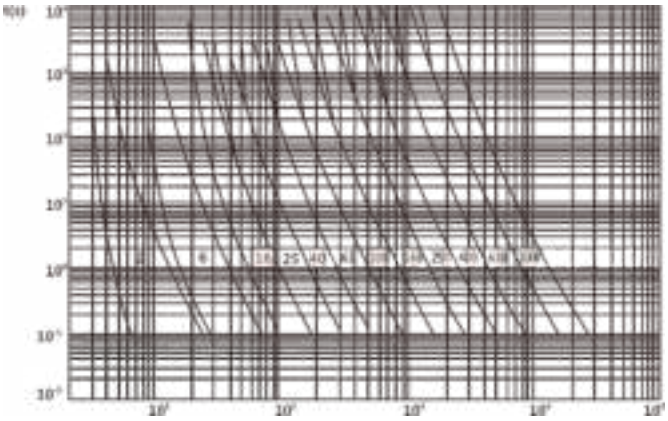


RDT16-00 3pole fuse base

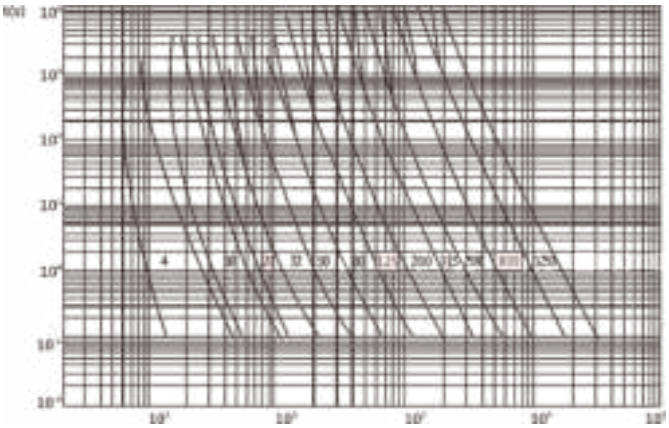


Fuse puller outline & dimension

Fuse link time-current characteristic curve



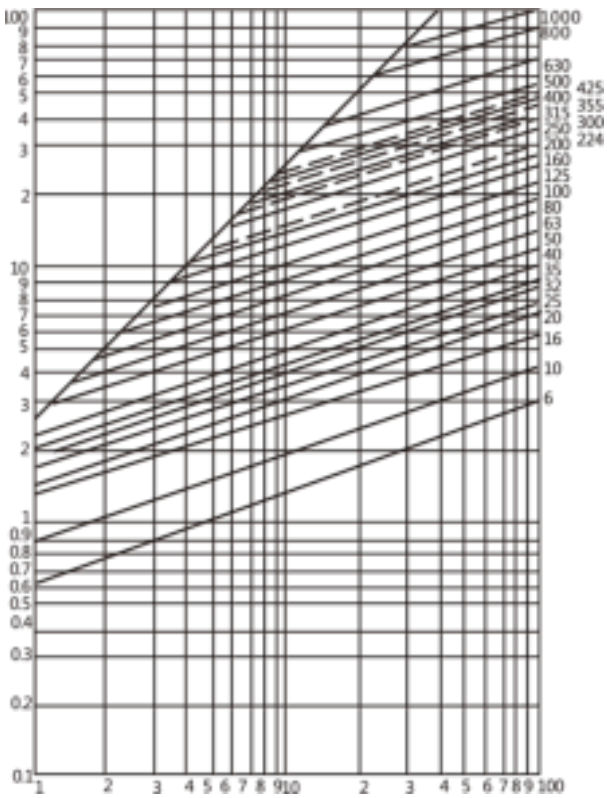
Prospective current (A)



Prospective current (A)

Fuse link time-current characteristic curve

Fusing current (kA)



Prospective current (A)

RT0

Series Filled Tube Type Knife Contact Fuse

Application

RT0 series filled tube type knife contact fuse can be applied in the industrial electrical distribution device of AC 50Hz, rated voltage 380V, rated current up to 1000A, for circuit overload & shortcircuit protection.
Conform to IEC60269-2 standard.

Model No.

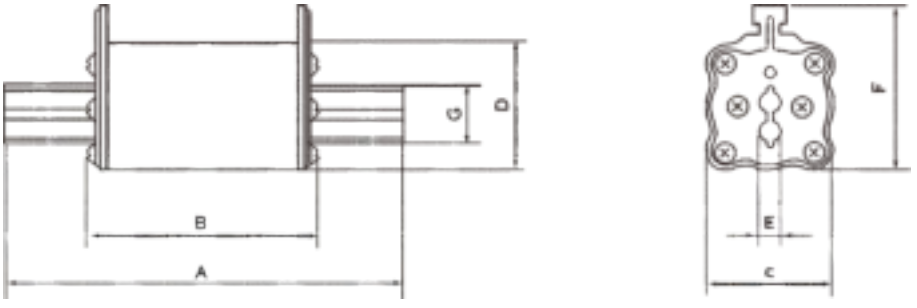
R T 0 - □ / □

- Rated Current
- Size
- Design Code
- Fuse
- Company Code

Main technical parameter

Model	Rated Voltage	Rated breaking capacity	Rated current (A)		Power factor Cosφ
			Base current	Fuse link	
RT0-50	380V	50kV	50	10, 12, 15, 20, 32, 40, 50,	0.1~0.2
RT0-100			100	32, 40, 50, 63, 80, 100	
RT0-200			200	80, 100, 125, 160, 200	
RT0-400			400	160, 200, 250, 315, 400	
RT0-600			600	315, 400, 500, 630	
RT0-1000			1000		

Outline & mounting dimension

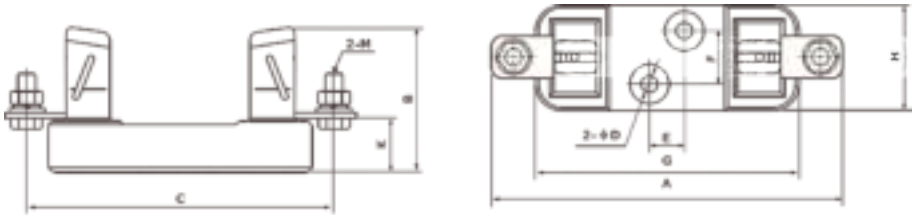


Fuse link

RT0

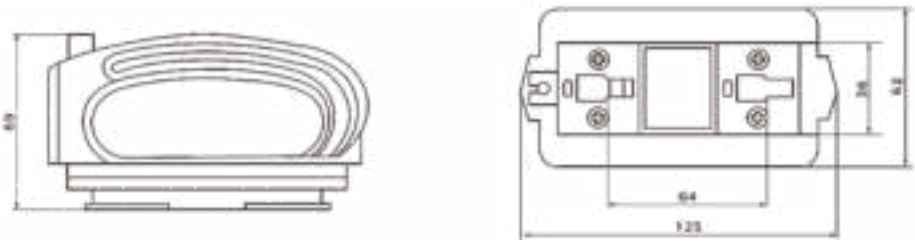
Series Filled Tube Type Knife Contact Fuse

Moel	A	B	C	D	E	F	G
RT0-50	103	66	25	40	4	52	10
RT0-100	123	68	40	40	6	52	18
RT0-200	133	68	40	40	6	58	23
RT0-400	143	68	55	55	6	66	30
RT0-600	163	68	67	67	6	78.5	36
RT0-1000	280	90	85	100	6	100	48



Fuse base

Size	A	B	C	D	E	F	G	H	K	M
RT0-50	135	46	120	7.5	20	-	100	334	24	8
RT0-100	180	74	160	9.5	20	30	140	35	30	10
RT0-200	200	82	175	9.5	20	30	150	60	30	10
RT0-400	220	95	190	9.5	20	30	160	70	30	12
RT0-600	250	115	220	9.5	20	30	180	80	35	16
RT0-1000	350	149	300	12.5	50	40	250	90	45	16



Fuse Puller outline & dimension

Memo

PEOPLE ELE. APPLIANCE GROUP CHINA

No.555, Liule Road, Liushi, Yueqing City, Zhejiang Province, 325604, China

www.peopleelectric.com Email: simon@chinapeople.com