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美拜电气



COMPANY INTRODUCTION

Meba is a first class Asian supplier of low voltage products, including residential and industrial electrical components. with more than 1500 employees. Since its creation in 1993, the company has grown rapidly in Asia.

All products manufactured according to IEC947 etc international standards.

The export department is located in Wenzhou, China and Hongkong.

The company combines high quality customer service with a diverse product range, to meet a wide variety of electrical distribution and protection needs for customers world-wide.

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[E]

RELAY

Content Customers, claim
March toward international



CLR2-D THERMAL RELAY

APPLICATIONS

This series of thermal relay can be used in the circuit of 50Hz or 60Hz, rated insulation voltage 660V, rated current 0.1-96A for protecting the phase break when the electric motor is overload. The relay has different mechanism and temperature compensation & can be plugged in CLC1-D series AC contactor. It is the most advanced thermal relay in the nineties in the world.



CLR2-D13



CLR2-D23



CLR2-D33

CHARACTERISTIC

A. Fundamental parameter of the main circuit

- (a). Rated insulation voltage 660V.
- (b). Rated working current 25, 36, 93A separately.
- (c). The regulator seal of rated setting current and setting.
- (d). Current of the thermal component (see list 1)

B. Auxiliary Circuit

- (a). There is one pair of NO/ and N/C contact with electric insulation.
- (b). Rated insulation voltage 500V.
- (c). Rated frequency 50-60Hz.
- (d). Use group, rated working voltage, appoint thermal current and rated current.

SPECIFICATION

Type	Rated working current of thermal relay		Thermal component	
			Rated current (A)	Rated or scale of rated current(A)
CLR2-D13	25	CLR2-D 1301	0.16	0.10-0.16
		1302	0.25	0.16-0.25
		1303	0.40	0.25-0.40
		1304	0.63	0.40-0.63
		1305	1.0	0.63-1.0
		1306	1.6	1.0-1.6
		13x6	2.0	1.25-2.0
		1307	2.5	1.6-2.5
		1308	4.0	2.5-4.0
		1310	6.0	4.0-6.0
		1312	8.0	5.5-8.0
		1314	10.0	7.0-10.0
		1316	13.0	9.0-13.0
		1321	18.0	12.0-18.0
		1322	25.0	17.0-25.0
CLR2-D23	36	CLR2-D 2353	32	23.0-32.0
		2355	36	28.0-36.0
CLR2-D33	93	CLR2-D 3353	32	23.0-32.0
		3355	40	30.0-40.0
		3357	50	37.0-50.0
		3359	65	48.0-65.0
		3361	70	55.0-70.0
		3363	90	63.0-80.0
		3365	93	80.0-93.0

CLR1-D THERMAL RELAY

APPLICATIONS

CLR1-D series thermal relay is suitable for thermal protection in the circuit with AC 50 or 60Hz, voltage up to 660V, motor power up to 45KW or less. It has different attachment and temperature compensating function. It can be fixed onto contactor and can also be fixed independently. The product is made in accordance with IEC292-1 CLR1-D series thermal relay and has kinds of species, 9A, 12A, 16A, 25A, 40A, 63A, 80A.



CLR1-D09301



CLR1-D25322



CLR1-D09305

SPECIFICATION

Type	Adjusting range of current (A)	Control power(AC)(KW)					Plug-in contactor
		220V	380V	415V	440V	660V	
CLR1-D 09301	0.1-0.16						CLC1-D09-25
CLR1-D 09302	0.16-0.25						CLC1-D09-25
CLR1-D 09303	0.25-0.40						CLC1-D09-25
CLR1-D 09304	0.40-0.63					0.37	CLC1-D09-25
CLR1-D 09305	0.63-1					0.55	CLC1-D09-25
CLR1-D 09306	1-1.6		0.37		0.55	0.7-1.1	CLC1-D09-25
CLR1-D 09307	1.6-2.5	0.37	0.55-0.75	1.1	0.55-0.75	1.5	CLC1-D09-25
CLR1-D 09308	2.5-4	0.55-0.75	1.1-1.5	1.5	1.5	2.2-3	CLC1-D09-25
CLR1-D 09310	4-6	1.1	2.2	2.2	2.2	4	CLC1-D09-25
CLR1-D 09312	5.5-8	1.5	3	3	3	5.5	CLC1-D09-25
CLR1-D 09314	7-10	2.2	4	4	4	7.5	CLC1-D09-25
CLR1-D 09316	10-13	3	5.5	5.5	5.5	10	CLC1-D09-25
CLR1-D 16321	13-18	4	7.5	9	9	15	CLC1-D09-25
CLR1-D 25322	19-25	5.5	11	1	1	18.5	CLC1-D09-25
CLR1-D 40353	23-32	7.5	15	15	15	22	CLC1-D40 50 60
CLR1-D 40355	30-40	10	18.5	2	2	30	CLC1-D40 50 60
CLR1-D 63357	38-50	11	22	25	25	37	CLC1-D40 50 60
CLR1-D 63359	48-57	15	25	30	30	45	CLC1-D40 50 60
CLR1-D 63361	57-66	18.5	30	37	37	55	CLC1-D40 50 60
CLR1-D 80363	63-80	22	33-37	33-37	33-37	59-63	CLC1-D40 50 60

CLRD THERMAL RELAY



CLRD-13



CLRD-23



CLRD-33

Differential thermal overload relays for using with fuse

Compensated relays with manual or automatic reset, with relay trip indicator, for AC or DC.

Relay setting range				For using with	Reference	Weight
	aM	gG	BS88	contactor LC2-		
A	A	A	A			

Class 10A(1) with connection by screw clamp terminals

0.10...0.16	0.25	2	-	D09...D38	CLRD-01	0.124
0.16...0.25	0.5	2	-	D09...D38	CLRD-02	0.124
0.25...0.40	1	2	-	D09...D38	CLRD-03	0.124
0.40...0.63	1	2	-	D09...D38	CLRD-04	0.124
0.63...1	2	4	-	D09...D38	CLRD-05	0.124
1...1.7	2	4	6	D09...D38	CLRD-06	0.124
1.6...2.5	4	6	10	D09...D38	CLRD-07	0.124
2.5...4	6	10	16	D09...D38	CLRD-08	0.124
4...6	8	16	16	D09...D38	CLRD-10	0.124
5.5...8	12	20	20	D09...D38	CLRD-12	0.124
7...10	12	20	20	D09...D38	CLRD-14	0.124
9...13	16	25	25	D12...D38	CLRD-16	0.124
12...18	20	235	32	D18...D38	CLRD-21	0.124
16...24	25	50	50	D25...D38	CLRD-22	0.124
23...32	40	63	63	D25...D38	CLRD-32	0.124
30...38	50	80	80	D32 and D38	CLRD-35	0.124
17...25	25	50	50	D40...D90	CLRD-322	0.510
23...32	40	63	63	D40...D90	CLRD-3353	0.510
30...40	40	100	080	D40...D90	CLRD-3355	0.510
37...50	63	100	100	D40...D90	CLRD-3357	0.510
48...65	80	100	100	D50...D90	CLRD-3359	0.510
55...70	80	125	125	D50...D90	CLRD-3362	0.510
63...80	100	125	15	D65 and D96	CLRD-3363	0.510
80...104	125	160	160	D80 and D96	CLRD-3365	0.510
80...104	125	200	160	D115 and D150	CLRD-4365	0.900
95...120	160	200	200	D115 and D150	CLRD-4367	0.900
110...140	100	250	200	D150	CLRD-4369	0.900
80...104	125	160	160	(2)	CLRD-33656	1.000
95...120	160	200	200	(2)	CLRD-33676	1.000
110...140		250	200	(2)	CLRD-33696	1.000

Class 10A(1) with spring terminal connections (for direct mounting on the contactor only)

0.10...0.16	0.25	2	-	D09...D38	CLRD-013	0.140
0.16...0.25	0.5	2	-	D09...D38	CLRD-023	0.140
0.25...0.40	1	2	-	D09...D38	CLRD-033	0.140
0.40...0.63	1	2	-	D09...D38	CLRD-043	0.140
0.63...1	2	4	-	D09...D38	CLRD-053	0.140
1...1.7	2	4	6	D09...D38	CLRD-063	0.140
1.6...2.5	4	6	10	D09...D38	CLRD-073	0.140
2.5...4	6	10	16	D09...D38	CLRD-083	0.140
4...6	8	16	16	D09...D38	CLRD-103	0.140
5.5...8	12	20	20	D09...D38	CLRD-123	0.140
7...10	12	20	20	D09...D38	CLRD-143	0.140
9...13	16	25	25	D12...D38	CLRD-163	0.140
12...18	20	235	32	D18...D38	CLRD-213	0.140
16...24	25	50	50	D25...D38	CLRD-223	0.140

Thermal overload relays for using with unbalanced loads

Class 10A(1) with connection by screw clamp terminals

Change the prefix in the references above from LRD (except LRD-4...) to LRD-D.

Example: LRD-01 becomes LR3-D01.

Thermal overload relays for using on 1000V supplies

Class 10A(1) with connection by screw clamp terminals

(1) Standard IEC947-1 specifies a tripping time for 7.2 times the setting current I_R :

class 10A: between 2 and 10 seconds.

(2) Independent mounting.

3UA SERIES THERMAL RELAY

APPLICATIONS

3UA series thermal relay is suitable for using in power system with AC 50Hz, rated operating voltage up to 660V and 1000V, in main circuit, current from 0.1A to 630A. It is used to protect AC three-phase asynchronous motor against overload and open-phase. The relays have the reset push-button for breaking NC contacts and the operating indication and free trip characteristics. The products also can be supplied with protecting case to ensure safety. The products can be plugged in the contactor and installed independently or mounted by rail.



3UA-50



3UA-52



3UA-58

SPECIFICATION

Type	Rated operating current(A)	Rated insulation voltage(V)	Current setting range(A)	
3UA50	12.5	660	0.1~0.16	0.16~0.25
			0.25~0.4	0.32~0.63
			0.63~0.1	0.8~1.25
			1~1.6	1.25~2
			1.6~2.5	2~3.2
			2.5~4	3.2~5
			4~6.3	5~8
3UA52	25	660	6.3~10	8~12.5
			0.1~0.16	0.16~0.25
			0.25~0.4	0.4~0.63
			1.63~1	0.8~1.25
			1~1.6	1.25~2
			1.6~2.5	2~3.2
			2.5~4	3.2~5
3UA54	32	660	4~6.3	5.8
			6.3~10	8~12.5
			10~16	12.5~20
3UA58	80	1000	16~25	20~32
			16~25	20~32
			25~40	32~50
3UA59	63	660	40~57	50~63
			57~70	63~80
			0.1~0.16	0.16~0.25
			0.25~0.4	0.4~0.63
			1.63~1	0.8~1.25
			1~1.6	1.25~2
			11.6~2.5	2~3.2
			2.5~4	3.2~5
			4~6.3	5~8
			6.3~10	8~12.5
3UA62	180	660	10~16	12.5~20
			16~25	20~32
			25~40	32~45
			40~57	50~63
			55~80	63~90
3UA66	400	1000	80~110	90~120
			110~35	120~150
			135~160	150~180
3UA68	630	1000	80~125	125~200
			180~250	200~320
			250~400	
			320~500	400~630

C3RU THERMAL RELAY

	Size model	Type	Alcance de regulacion A	Peso kg
 C3RU1116	S00	C3RU1116-0JB0 C3RU1116-1AB0 C3RU1116-1BB0 C3RU1116-1CB0 C3RU1116-1DB0 C3RU1116-1EB0 C3RU1116-1FB0 C3RU1116-1GB0 C3RU1116-1HB0 C3RU1116-1JB0	0,7-1,0 1,1-1,6 1,4-2,0 1,8-2,5 2,2-3,2 2,8-4,0 3,5-5 4,5-6,3 5,5-8 7-10	0,12
	S0	C3RU1126-1CB0 C3RU1126-1EB0 C3RU1126-1FB0 C3RU1126-1GB0 C3RU1126-1HB0 C3RU1126-1JB0 C3RU1126-1KB0 C3RU1126-1AB0	1,8-2,5 2,8-4,0 3,5-5 4,5-6,3 5,5-8 7-10 9-12,5 11-16	0,16
 C3RU1126	S2	C3RU1136-1HB0 C3RU1136-1JB0 C3RU1136-4AB0 C3RU1136-4DB0 C3RU1136-4EB0 C3RU1136-4FB0 C3RU1136-4GB0 C3RU1136-4HB0	5,5-8,0 7-10 11-16 18-25 22-32 28-40 36-45 40-50	0,3
	S3	C3RU1146-4FB0 C3RU1146-4JB0 C3RU1146-4KB0 C3RU1146-4LB0	28-40 45-63 57-75 70-90	0,5
Accesaries	S00 S0 S2 S3	C3RU19-16-3AA01 C3RU19-26-3AA01 C3RU19-36-3AA01 C3RU19-46-3AA01		0,04 0,06 0,15 0,23

TH-K/N THERMAL RELAY

APPLICATIONS

The thermal overload relays are suitable for overload protection of AC motor operated on 8-hour duty or uninterrupted duty. The overload protected AC motor with frequency 50Hz, voltage up to 660V, current up to 40A. Several functions provided by these relays are phase-failure protection, temperature compensation, ON/OFF indication and manual/automatic reset. The relays comply with IEC292-1 standard.



TH-K12



TH-K20



TH-K60



LR9-200



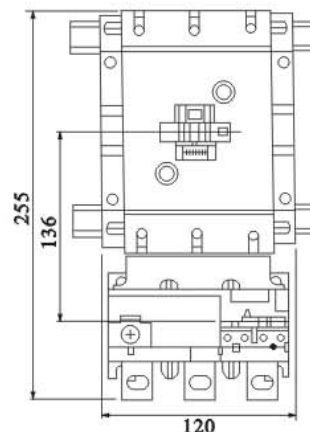
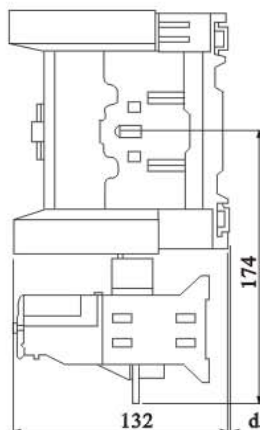
LR9-630

SPEIFICATION

Type	Plug in AC contact	Rtaed current of Thermal element(A)	Setting current range(A)
TH-K12	S-K10 S-K11	0.15,0.35,0.5,0.7,0.9,1.3,	0.1-0.28 0.28-0.42 0.4-0.6 0.55-0.85 0.7-1.1 1-1.6
	S-K12 S-K18	1.7,2.1,2.5,3.6,5,6.6,9,11	1.4-2 1.7-2.1 2-3 2.8-4.4 4-6 5.2-8 7-11 9-13
TH-K20	S-K20 S-K21	2.1,2.5,3.6,5,6.6,9,11,	1.7-2.1 2-3 2.8-4.4 4-6 5.2-8 7-11 9-13
	S-K23 S-K35	15,19,22,29,35	12-18 16-22 18-26 24-34 30-40
TH-K60	S-K50 S-K65	42,54	34-50 43-65
	S-K80 S-K95		

LR9 SERIES ELECTRONIC THERMAL RELAY

Type	Setting range	For contactor
LR9-200	30-50	F115-F185
	48-80	F115-F185
	60-100	F115-F185
	90-150	F115-F185
	132-220	F225-F265
LR9-630	200-330	F330-F500
	300-500	F330-F500
	380-630	F400-F630




CGTH-22

CGTH-40

CGTH-85

CGTH SERIES THERMAL OVERLOAD RELAY

APPLICATION

The TOR Protect the motors, Locking, Open phase(differential)

CHARACTERISTICS

●Direct mounting structure

The TOR is mounting directly to the Magnetic Contactors without additional brackets.

(Applied model: CGTH-22, 40, 85)

●Safety cover

The finger proof safety cover prevent careless touch of electric conductor(Applied model:

CGTH-22, 40, 85)

●Separation of power part and operation part

The main circuit and the operation part are separately designed and the operation part is

commonly used in CGTH-22, 40, 85

●Easy operation

TYPES AND RATINGS

Ratings	Type	CGTH-22			CGTH-40			CGTH-85		
	Nominal current	Ranges			Ranges			Ranges		
		Min.	Mid.	Max.	Min.	Mid.	Max.	Min.	Mid.	Max.
Rated current(A)	0.14	0.1	0.14	0.16						
	0.21	0.16	0.21	0.25						
	0.33	0.25	0.33	0.4						
	0.52	0.4	0.52	0.63						
	0.82	0.63	0.82	1						
	1.3	1	1.3	1.6						
	2.1	1.6	2.1	2.5						
	3.3	2.5	3.3	4						
	5	4	5	6	4	5	6			
	6.5	5	6.5	8	5	6.5	8			
	7.5	6	7.5	9	6	7.5	9			
	8.5	7	8.5	10	7	8.5	10	7	8.5	10
	11	9	11	13	9	11	13	9	11	13
	15	12	15	18	12	15	18	12	15	18
	19	16	19	22	16	19	22	16	19	22
	22				18	22	26	18	22	26
	30				24	30	36	24	30	36
	34				28	34	40	28	34	40
	42							34	42	50
	55							45	55	65
	65							54	65	75
	74							63	74	85
Element No.	2heaters	Standard			Standard			Standard		
	3heaters	option			option			option		
Aux.contact		1NO1NC			1NO1NC			1NO1NC		
Reset type		Auto/Manual			Auto/Manual			Auto/Manual		
Power consumption		1.8VA/heater			2.0VA/heater			3.5VA/heater		
Dimension(mm) (W × H × D)		44×63×90			53×67×90			70×73×103		
Separate mounting unit		AZ-22H			AZ-40H			AZ-85H		
Other model	3heaters	CGTH-22/3			CGTH-40/3			CGTH-85/3		
	Differential	CGTK-22			CGTK-40			CGTK-85		
	Delay open	CGTH-22/L			CGTH-40/L			CGTH-85/L		
Applied contactors		CGMC-9,12,18,22			CGMC-32,40			CGMC-50,65,75,85		
Applied switches		CGMS-9,12,18,22			CGMS-32,40			CGMS-50,65,75,85		

PCB RELAY

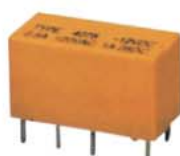

JZC-22F

T73

4098

4088

JZC-32F

JZC-33F

4078

4100

JZC-35F

Model	External Dimension (mm)	Contact form	Contact Capacity	Coil Voltage DC	Coil power	Contact Resistance	Insulation Resistance	Dielectric strength	Service Life		Terminal	Operating Temperature	Weight
									Mechanical	Electrical			
JZC-22F	20×16.5×19.5	1Z 1H 1D	DC28V AC120V 5A 7A 12A 15A	3,6,9,12 24,48V	DC≤ 0.45W	≤50mΩ	≥100MΩ	1000VAC	10 ⁷	10 ⁵	Printed-Circuit board	-25~+55℃	≤14g
4088 JZC-20F	22.5×16.7×23.5	1Z 1H 1D	28VDC 5A 120VAC AC 5A	3,6,9,12 24,48V	0.36W	≤50mΩ	≥100MΩ	1000VAC	10 ⁷	10 ⁵	Printed-Circuit board	-30~+60℃	≤16g
JZC-32F	18.5×10.5×15.5	1Z 1H 1D	3A 250VAC 28VDC	3,6,9,12 24,48V	0.36W	≤50mΩ	≥100MΩ	1000VAC	10 ⁷	10 ⁵	Printed-Circuit board	-30~+60℃	≤9g
4100 (JRC-21F)	15.5×11×11.5	1Z 1H 1D	1A 125VAC 2A 28VDC	3,6,9 12,24V	0.36W	≤50mΩ	≥100MΩ	500VAC	10 ⁷	10 ⁵	Printed-Circuit board	-25~+75℃	≤4g
4098 (JZC-6F)	19×16×14.5	1Z	2A 120VAC 28VDC	3,6,9 12,24V	0.36W	≤50mΩ	≥100MΩ	750VAC	10 ⁷	10 ⁵	Printed-Circuit board	-25~+55℃	≤9g
T73 JQC-3F	19.5×16.5×16.5	1Z 1H 1D	28VDC 125VAC 5A 10A 12A	3,6,9,12 24,48V	0.36W	≤50mΩ	≥100MΩ	1500VAC	10 ⁷	10 ⁵	Printed-Circuit board	-55~+85℃	≤12g
4078 (JRC-19F)	21×10×12	2Z	125VAC 28VDC 1A	3,6,9,12 24,48V	0.36W	≤50mΩ	≥100MΩ	1000VAC	10 ⁷	10 ⁵	Printed-Circuit board	-25~+55℃	≤6g
JZC-33F	20.5×10.5×16	1Z 1H	5A 250VAC 5A 28VDC	3,6,12, 24,48V	0.45W	≤50mΩ	≥100MΩ	1500VAC	10 ⁷	10 ⁵	Printed-Circuit board	-30~+55℃	≤9g

General-purpose relay


HH52P

HH53P

HH54P

Model	External Dimension (mm)	Contact form	Contact Capacity	Coil Voltage		Coil power	Contact Resistance	Insulation Resistance	Dielectric strength	Service Life		Terminal	Operating Temperature	Weight
				DC	AC					Mechanical	Electrical			
JQX-13F (LY2)	27.5×21×35	2Z	DC 28V AC 250V 5A	6,12 24,48 110V 6,12,24 48,110 220,240V		AC ≤0.9W	≤50 mΩ	≥100 mΩ	AC 1000V	10 ⁷	10 ⁵	Outlet and Printed-Circuit board flange	-40~ +55℃	≤35g
LY3	27.5×21×35	3Z	DC 28V AC 250V 5A			AC ≤1.2VA								
LY4	27.5×21×35	4Z	DC 28V AC 250V 3A											


MY2

MY3

MY4

LY1

Model	External Dimension (mm)	Contact form	Contact Capacity	Coil Voltage		Coil power	Contact Resistance	Insulation Resistance	Dielectric strength	Service Life		Terminal	Operating Temperature	Weight
				DC	AC					Mechanical	Electrical			
MY2	27.5×21×35	2Z	DC 28V AC 250V 5A	6,12 24,48 110V	6,12,24 48,110 220,240V	AC ≤0.9W	≤50 mΩ	≥100 mΩ	AC 1000V	10 ⁷	10 ⁵	Outlet and Printed-Circuit board flange	-40~ +55℃	≤35g
MY3	27.5×21×35	3Z	DC 28V AC 250V 5A			AC ≤1.2VA								
MY4	27.5×21×35	4Z	DC 28V AC 250V 3A											
LY1	27.5×21×35	1Z 1H	AC 16A 250V DC 16A 30V			DC ≤0.9W AC ≤1.2VA								

General-purpose relay


JQX-13F 2Z

LY2

HH63P LY3

HH64P LY4

Model	External Dimension (mm)	Contact form	Contact Capacity	Coil Voltage		Coil power	Contact Resistance	Insulation Resistance	Dielectric strength	Service Life		Terminal	Operating Temperature	Weight
				DC	AC					Mechanical	Electrical			
JQX-13F (LY2)	27.5×21×35	2Z 2H	DC 28V AC 250V 10A	6,12,24 110V	6,12,24 110,220 240V	AC ≤1.2VA	≤50 mΩ	≥100 mΩ	AC1000V	10 ⁷	10 ⁵	Outlet and Printed-Circuit board and Flange	-40~+55℃	≤35g
LY3	27.5×21×35	3Z 3H	DC 28V AC 250V 10A			1.5W 2.5VA								≤50g
LY4	27.5×41×35	4Z 4H	DC 28V AC 250V 10A											≤70g


TYPE 55.02

TYPE 55.04

TYPE 56.02

Model	External Dimension (mm)	Contact form	Contact Capacity	Coil Voltage		Coil power	Contact Resistance	Insulation Resistance	Dielectric strength	Service Life		Terminal	Operating Temperature	Weight
				DC	AC					Mechanical	Electrical			
TYPE 55.02	27.5×21×35	2Z	DC 28V AC 250V 10A	6,12,24 48,110V	6,12,24,48 110,220 240V	AC≤0.9W	≤50 mΩ	≥100mΩ	AC1000V	10 ⁷	10 ⁵	Outlet and Printed-Circuit board	-40~+55℃	≤38g
TYPE 55.04	27.5×21×35	4Z	DC 28V AC 250V 5A	6,12,24 48,110V	6,12,24,48 110,220 240V	AC≤0.9W	≤50 mΩ	≥100mΩ	AC1000V	10 ⁷	10 ⁵	Outlet and Printed-Circuit board	-40~+55℃	≤38g
TYPE 56.02	27.5×21×35	2Z	DC 28V AC 250V 12A	6,12,24 48,110V	6,12,24,48 110,220 240V	AC≤0.9W	≤50 mΩ	≥100mΩ	AC1000V	10 ⁷	10 ⁵	Outlet and Printed-Circuit board	-40~+55℃	≤38g

GENERAL-PURPOSE RELAY



TYPE 57.02



TYPE 57.04



TYPE 58.02

Model	External Dimension (mm)	Contact form	Contact Capacity	Coil Voltage		Coil power	Contact Resistance	Insulation Resistance	Dielectric strength	Service Life		Terminal	Operating Temperature	Weight
				DC	AC					Mechanical	Electrical			
TYPE 57.02	27.5×21×35	2Z	DC 28V AC 250V 10A	6,12,24 48,110V	6,12,24,48 110,220 240V	AC≤1.2VA	≤50 mΩ	≥100mΩ	AC1000V	10 ⁷	10 ⁵	Outlet and Printed-Circuit board	-40~+55℃	≤38g
TYPE 57.04	27.5×21×35	4Z	DC 28V AC 250V 5A	6,12,24 48,110V	6,12,24,48 110,220 240V	AC≤0.9W	≤50 mΩ	≥100mΩ	AC1000V	10 ⁷	10 ⁵	Outlet and Printed-Circuit board	-40~+55℃	≤38g
TYPE 58.02	27.5×21×35	2Z	DC 28V AC 250V 12A	6,12,24 48,110V	6,12,24,48 110,220 240V	AC≤0.9W	≤50 mΩ	≥100mΩ	AC1000V	10 ⁷	10 ⁵	Outlet and Printed-Circuit board	-40~+55℃	≤38g



70.2



70.3



60.2



60.3

Model	External Dimension (mm)	Contact form	Contact Capacity	Coil Voltage		Coil power	Contact Resistance	Insulation Resistance	Dielectric strength	Service Life		Terminal	Operating Temperature	Weight
				DC	AC					Mechanical	Electrical			
TYPE.70	34.7×34×59	2Z 3Z	DC 28V AC 250V 10A	6,12,24 60,110 220V	6,12,24,36 48,110,220 380V	DC≤1.5W AC≤2.8VA	≤50mΩ	≥500mΩ	1500VAC	10 ⁷	10 ⁵	Outlet solder	-40~+55℃	≤82g
TYPE.60	37×33×52	2Z 3Z	DC 30V AC 250V 10A	6,12,24 60,110 220V	6,12,24,36 48,110,220 380V									

GENERAL-PURPOSE RELAY


ZK(MK)2P

ZK3P(MK)

AS2P

AS3P

Model	External Dimension (mm)	Contact form	Contact Capacity	Coil Voltage		Coil power	Contact Resistance	Insulation Resistance	Dielectric strength	Service Life		Terminal	Operating Temperature	Weight
				DC	AC					Mechanical	Electrical			
ZK(MK)	34.7×34.7×52	2Z 3Z	DC28V AC250V 10A	6,12,24 60,110 220V	6,12,24 36,48,110 220,380V	DC≤1.5W AC≤2.8VA	≤50 mΩ	≥500mΩ	AC1500V	10 ⁷	10 ⁵	Outlet solder	-40~+55℃	≤75g
AS2P	36×29×55	2Z	DC28V AC250V 10A	6,12,24 36,48,110 220V	6,12,24 36,48,110 220,380V	DC≤1.5W AC≤2.8VA	≤50 mΩ	≥500mΩ	AC1500V	10 ⁷	10 ⁵	Outlet solder	-40~+55℃	≤75g
AS3P	36×36×55	3Z	DC28V AC220V 10A	6,12,24 36,48 60,110 220V	6,12,24 36,48 110,125 220,240 380V	DC≤1.5W AC≤2.8VA	≤50 mΩ	≥500mΩ	AC1500V	10 ⁷	10 ⁵	Outlet solder	-40~+55℃	≤80g

AIR CONDITIONING


T90

T91

T92

Model	External Dimension (mm)	Contact form	Contact Capacity	Coil Voltage DC	Coil power	Contact Resistance	Insulation Resistance	Dielectric strength	Service Life		Terminal	Operating Temperature	Weight
									Mechanical	Electrical			
T90	32.5×27.5×20.5	1Z 1H 1D	30A 20A 30VDC 220VAC	3,6,12,24 48,110V	DC≤0.93W	≤50 mΩ	≥100mΩ	AC1500V	10 ⁷	10 ⁵	PCB	-40~+85℃	≤28g
T91	32.5×27.5×28	1Z 1H 1D	30A 20A 30VDC 220VAC	3,6,12,24 48,110V	DC≤0.93W	≤50 mΩ	≥100mΩ	AC1500V	10 ⁷	10 ⁵	PCB	-40~+85℃	≤33g
T92	32.5×27.5×28	1Z 1H 1D	30A 20A 30VDC 220VAC	3,6,12,24 48,110V	DC≤0.93W	≤50 mΩ	≥100mΩ	AC1500V	10 ⁷	10 ⁵	Flange	-40~+85℃	≤33g

AUTOMOTIVE RELAYS



JD1929



RL1.5



**AS-402
(CM6321)**



**AS-403
(CM6331)**



**AS-404
(CM6321)**



4117

Model	External Dimens- ion (mm)	Contact form	Contact Capacity	Coil Voltage	Coil power	Contact Resistan- ce	Insulation Resistan- ce	Dielectric strength	Service Life		Terminal	Operating Tempera- ture	Weight
									Mechanical	Electrical			
JD1929	26×26 ×25	1Z 1H	20A 30A 30VDC 120VAC	6,12,24V	DC≤1.6W	≤50 mΩ	≥100mΩ	1000VAC	10 ⁷	10 ⁵	Outlet	-40~ +60℃	≤31g
RL15	29×29 ×27	1Z 1H	30A 40A 30VDC 120VAC	6,12,24V	DC≤0.93W	≤50 mΩ	≥100mΩ	1000VAC	10 ⁷	10 ⁵	Outlet	-40~ +60℃	≤35g
AS-402	33×27 ×33	1H	30A 24VDC	6,12,24V	DC≤1.8W	≤50 mΩ	≥100mΩ	750VAC	10 ⁶	10 ⁵	Outlet	-40~ +70℃	≤40g
AS-403	28×28 ×25.5	1Z 1H	20A14VDC 30A14VDC	6,12,24V	DC≤1.6W	≤50 mΩ	≥100mΩ	750VAC	10 ⁶	10 ⁵	Outlet	-40~ +70℃	≤45g
AS-404	28×24 ×28.5	1H	20A 14VDC	6,12,24V	DC≤1.6W	≤50 mΩ	≥100mΩ	750VAC	10 ⁶	10 ⁵	Outlet	-40~ +70℃	≤60g
4117	17×15 ×20	1H1D 1Z	10A 14VDC	6,12,24V	1.1W	≤50 mΩ	≥100mΩ	500VAC	10 ⁶	10 ⁵	P.C.B	-40~ +55℃	≤12g

RELAY SOCKETS



US-08

PS-05A

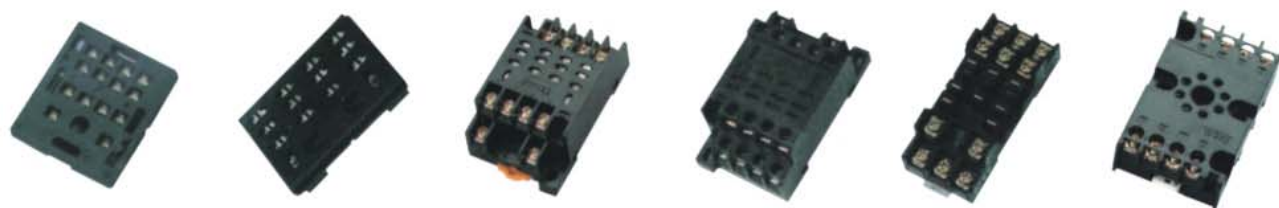
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PTF-11AK

PTF14AK

SOCKET-38F

PY-08X



PY-14A

PT-14A

PTF14A

PTF14A-E

SOCKET-53F

TY28X-E



PF113A

P2CF-08

PF083A-E

PF113A-E

PF083

PF085A



PYF11A

PTF08A

PYF08A

PYF14A

PYF14.5A

PTF08A-E

PYF08A-E



PYF14A-E

PMF-14A

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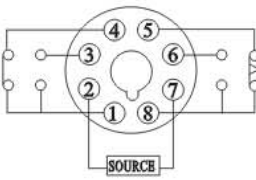
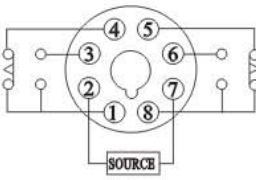
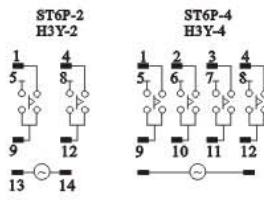
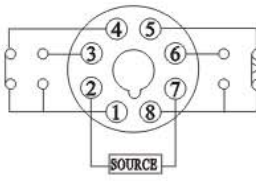
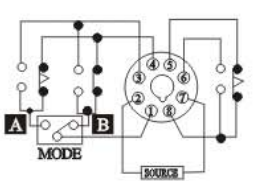
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TYPE 94.3

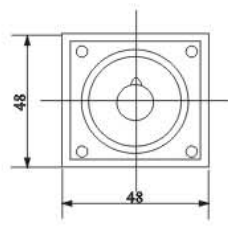
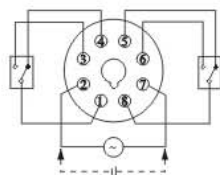
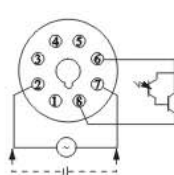
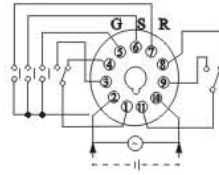
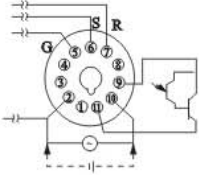
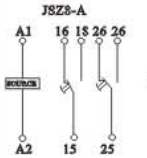
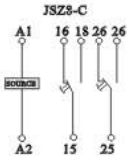
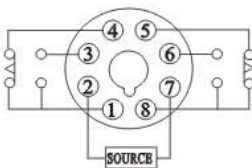
TYPE 94.4

MT740/MT750

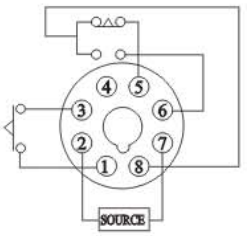
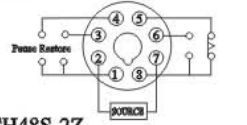
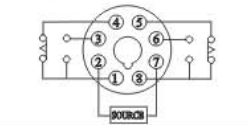
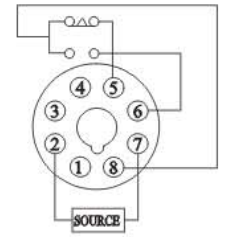
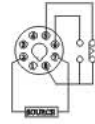
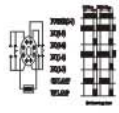
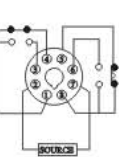
TIME RELAYS

AH3-NB 	Circuit Diagram 	<table border="1"> <tr> <td>Voltage</td><td>AC24,48,60,110,220,240V 50Hz DC24,48V</td><td>Timing range</td></tr> <tr> <td>Contact</td><td>AH-1□:Timed SPDT AH-2□:Timed 2PDT AH-3□:Timed SPDT,Inst,SPDT</td><td rowspan="2">A:1S 1M 10S 10M B:3S 3M 30S 30M C:6S 6M 60S 60M D:1M 10M 1H 10H E:3M 30M 3H 30H</td></tr> <tr> <td>Operation</td><td>AH-1□:Time-limit operation/self-re-setting AH-2□:on-delay AH-3□:on-delay with inst.contact</td></tr> </table>	Voltage	AC24,48,60,110,220,240V 50Hz DC24,48V	Timing range	Contact	AH-1□:Timed SPDT AH-2□:Timed 2PDT AH-3□:Timed SPDT,Inst,SPDT	A:1S 1M 10S 10M B:3S 3M 30S 30M C:6S 6M 60S 60M D:1M 10M 1H 10H E:3M 30M 3H 30H	Operation	AH-1□:Time-limit operation/self-re-setting AH-2□:on-delay AH-3□:on-delay with inst.contact			
Voltage	AC24,48,60,110,220,240V 50Hz DC24,48V	Timing range											
Contact	AH-1□:Timed SPDT AH-2□:Timed 2PDT AH-3□:Timed SPDT,Inst,SPDT	A:1S 1M 10S 10M B:3S 3M 30S 30M C:6S 6M 60S 60M D:1M 10M 1H 10H E:3M 30M 3H 30H											
Operation	AH-1□:Time-limit operation/self-re-setting AH-2□:on-delay AH-3□:on-delay with inst.contact												
ST3P 	Circuit Diagram 	<table border="1"> <tr> <td>Voltage</td><td>AC24,48,60,110,220V 50Hz DC24,48,60,110V</td><td>Timing range</td></tr> <tr> <td>Contact</td><td>ST3A:Timed 2PDT ST3PC:Timed SPDT,Inst.SPDT ST3PF:Timed SPDT</td><td rowspan="2">A:0.05-0.5S/5S/30S/3M B:0.1-1S/10S/60S/6M C:0.5-5S/50S/5M/30M D:1-10S/100S/10M/60M E:5-60S/10M/60M/6H F:0.25-2M/20M/2H/12H G:0.5-4M/40M/4H/24H</td></tr> <tr> <td>Operation</td><td>ST3PA:On-delay ST3PC:On-delay with Inst.contact ST3PF:off-delay</td></tr> <tr> <td></td><td></td><td>1S.5S.10S.30S.60S</td></tr> </table>	Voltage	AC24,48,60,110,220V 50Hz DC24,48,60,110V	Timing range	Contact	ST3A:Timed 2PDT ST3PC:Timed SPDT,Inst.SPDT ST3PF:Timed SPDT	A:0.05-0.5S/5S/30S/3M B:0.1-1S/10S/60S/6M C:0.5-5S/50S/5M/30M D:1-10S/100S/10M/60M E:5-60S/10M/60M/6H F:0.25-2M/20M/2H/12H G:0.5-4M/40M/4H/24H	Operation	ST3PA:On-delay ST3PC:On-delay with Inst.contact ST3PF:off-delay			1S.5S.10S.30S.60S
Voltage	AC24,48,60,110,220V 50Hz DC24,48,60,110V	Timing range											
Contact	ST3A:Timed 2PDT ST3PC:Timed SPDT,Inst.SPDT ST3PF:Timed SPDT	A:0.05-0.5S/5S/30S/3M B:0.1-1S/10S/60S/6M C:0.5-5S/50S/5M/30M D:1-10S/100S/10M/60M E:5-60S/10M/60M/6H F:0.25-2M/20M/2H/12H G:0.5-4M/40M/4H/24H											
Operation	ST3PA:On-delay ST3PC:On-delay with Inst.contact ST3PF:off-delay												
		1S.5S.10S.30S.60S											
H3Y(ST6P) 	Circuit Diagram 	<table border="1"> <tr> <td>Voltage</td><td>AC24,48,60,110,220V 50Hz DC24,48,60,110V</td><td>Timing range</td></tr> <tr> <td>Contact</td><td>H3Y-2 ST6P-2:Timed 2PDT H3Y-4 ST6P-4:Timed 4PDT</td><td rowspan="2">0.5S.1S.5S.10S.30S.60S. 120S.180S.10M.60M.3H. 12H.24H</td></tr> <tr> <td>Operation</td><td>H3Y-2 ST6P-2 Time-limit operation/self-resetting H3Y-4 ST6P-4 Time-limit operation/self-resetting</td></tr> </table>	Voltage	AC24,48,60,110,220V 50Hz DC24,48,60,110V	Timing range	Contact	H3Y-2 ST6P-2:Timed 2PDT H3Y-4 ST6P-4:Timed 4PDT	0.5S.1S.5S.10S.30S.60S. 120S.180S.10M.60M.3H. 12H.24H	Operation	H3Y-2 ST6P-2 Time-limit operation/self-resetting H3Y-4 ST6P-4 Time-limit operation/self-resetting			
Voltage	AC24,48,60,110,220V 50Hz DC24,48,60,110V	Timing range											
Contact	H3Y-2 ST6P-2:Timed 2PDT H3Y-4 ST6P-4:Timed 4PDT	0.5S.1S.5S.10S.30S.60S. 120S.180S.10M.60M.3H. 12H.24H											
Operation	H3Y-2 ST6P-2 Time-limit operation/self-resetting H3Y-4 ST6P-4 Time-limit operation/self-resetting												
ST2P 	Circuit Diagram 	<table border="1"> <tr> <td>Voltage</td><td>AC24,48,60,110,220V 50Hz DC24,48V</td><td>Timing range</td></tr> <tr> <td>Contact</td><td>Timed SPDT Inst.SPDT</td><td rowspan="2">1S.2S.3S.6S.12S.30S. 60S.2M.3M.5M.6M.12M. 30M.60M.3H.6H.12H. 24H</td></tr> <tr> <td>Operation</td><td>On-delay with inst.contact</td></tr> </table>	Voltage	AC24,48,60,110,220V 50Hz DC24,48V	Timing range	Contact	Timed SPDT Inst.SPDT	1S.2S.3S.6S.12S.30S. 60S.2M.3M.5M.6M.12M. 30M.60M.3H.6H.12H. 24H	Operation	On-delay with inst.contact			
Voltage	AC24,48,60,110,220V 50Hz DC24,48V	Timing range											
Contact	Timed SPDT Inst.SPDT	1S.2S.3S.6S.12S.30S. 60S.2M.3M.5M.6M.12M. 30M.60M.3H.6H.12H. 24H											
Operation	On-delay with inst.contact												
CH5N 	Circuit Diagram 	<table border="1"> <tr> <td>Voltage</td><td>AC/DC24V-240V universal voltage</td><td>Timing range</td></tr> <tr> <td>Contact</td><td>Timed SPDT Inst.SPDT Timed 2PDT</td><td rowspan="2">1S-24H</td></tr> <tr> <td>Operation</td><td>Time-limit operation self-resetting</td></tr> </table>	Voltage	AC/DC24V-240V universal voltage	Timing range	Contact	Timed SPDT Inst.SPDT Timed 2PDT	1S-24H	Operation	Time-limit operation self-resetting			
Voltage	AC/DC24V-240V universal voltage	Timing range											
Contact	Timed SPDT Inst.SPDT Timed 2PDT	1S-24H											
Operation	Time-limit operation self-resetting												

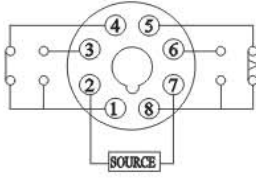
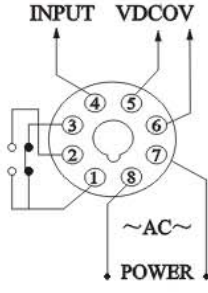
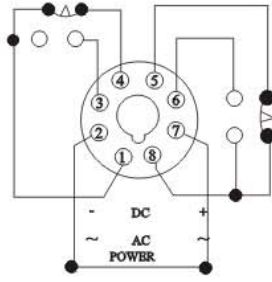
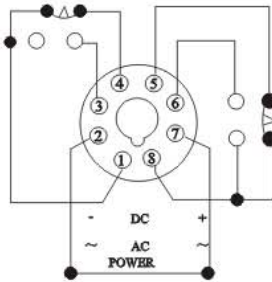
TIME RELAYS

ST4P 	Circuit Diagram 	Voltage AC24,48,60,110,220V 50Hz DC24,48,60,110V	Timing range A:0.05-0.5S/5S/30S/3M B:0.1-1S/10S/60S/6M C:0.5-5S/50S/5M/30M D:1-10S/100S/10M/60M
H3CR 	Circuit Diagram H3CR-A8 H3CR-A8S H3CR-A H3CR-AS	A:power ON delay operation E:power ON interval operation	Timing range: 0.05S-300H Voltage: AC24V~240V 50Hz DC12V~48V
JSZ8 	Circuit Diagram JSZ8-A JSZ8-C	Voltage AC24,48,60,110,220V 50Hz DC24,48V Timing range JSZ8-A:timed 2SPDT JSZ8-C:timed SPDT,Inst. SPDT	Timing range -0.1:0.1-1S/1M -0.2:0.5-5S/5M -0.3:1.0-10S/10M -0.4:3.0-30S/30M -0.5:6.0-60S/60M
H3BA-8/8H 	Circuit Diagram 	Voltage AC24-240V 50Hz DC24-48V Timing range on-delay recycling work off-delay on/off-delay	Timing range 0.5S-100H

TIME RELAYS

ASY-2D.3D 	Circuit Diagram 	Voltage AC24,48,60,110,220,240V 50Hz DC24,48V Contact Timed 2PDT Operation on-delay	Timing range one digits: 9s/9m/9h two digits: 9.9s/9.9m/9.9h 99s/99m/99h three digits: 99.9s/99.9m/99.9h 999s/999m/999h
CH48S 	Circuit Diagram CH48S  CH48S-2Z 	Voltage AC24,36,48,110,220,380V 50Hz DC12,24,48V Contact Timed SPDT Timed 2PDT Operation on-delay	Timing range 99S99 99M99 99H99
ATDV-NY 	Circuit Diagram 	Voltage AC24,48,60,110,220,240V 50Hz DC24,48V Contact Timed SPDT Operation Reset recycling timed (on-delay)	Timing range 3S.6S.12S.30S.60S.3M 6M.10M.12M.30M.60M 3H.6H.10H.12H.24
ASTP-Y/N 	Contact AH2-Y1:Timed SPDT AH2-Y2:Timed 2PDT AH2-Y:Timed SPDT,Inst.SPDT ASTP-Y1:Timed SPDT ASTP-Y2:Timed 2PDT ASTP-Y:Timed SPDT,Inst.SPDT	Voltage AC24,48,60,110,220V 50Hz DC24,48V Circuit Diagram AH2-Y1 ASTP-Y1 	Timing range 1S.2S.3S.6S.12S.30S 60S.2M.3M.5M.6M.12M 30M.60M.3H.6H.12H.24H POWER(2-7) NC(8-5) NO(8-6) ON LAMP UP LAMP  Rt:Resetting time
AH2-Y/N 	Operation AH2-Y1:Time-limit operation/self-resetting AH2-Y2:on-delay AH2-Y:on-delay with inst.contact ASTP-Y1:Time-limit operation/self-resetting ASTP-Y2:on-delay ASTP-Y:on-delay with inst.contact	AH2-Y2 ASTP-Y2  AH2-Y ASTP-Y 	POWER(2-7) NC(8-5) NO(8-6) NC(1-4) NO(1-3) ON LAMP UP LAMP  Rt:Resetting time POWER(2-7) NC(8-5) NO(8-6) NC(1-4) NO(1-3) ON LAMP UP LAMP  Rt:Resetting time

TIME RELAYS

AH3-□ 1 	Circuit Diagram 	Voltage	AC24,48,60,110,220,240V 50Hz DC24,48V	Timing range
AS-□ 	Circuit Diagram 	Voltage	AC24,48,60,110,220,240V 50Hz DC24,48V	Timing range
AH2Y-□ A 	Circuit Diagram 	Voltage	AC24,48,60,110,220,240V 50Hz DC24,48V	Timing range
AH2-□ 1 	Circuit Diagram 	Voltage	AC24,48,60,110,220,240V 50Hz DC24,48V	Timing range

24 HOURS TIMER



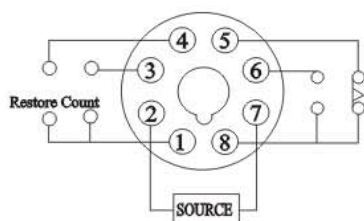
Movement type	AC type		
rated voltage	110V AC	220V AC	240V AC
voltage tolerance	85~120V	170~240V	220~260V
frequency	50Hz/60Hz(selectable)		
power consumption	1.5W		
time precision	same as AC current frequency		
manual ON/OFF	ON/AUTO/OFF switch		
ambient temperature	-10℃~50℃		
resistiv load	250V AC 20A		
lamp load	10A		
inductive load	12A(cos Φ =0.7 or more)		
motor load	110V AC 750W,220V AC 1500W		
switch construction	SPST		
minimum setting unit	15 minutes/unit		
minimum setting interval	15 minutes/unit		
NO.of ON/OFF operations	96 operations		
Weight	485g		

COUNTER



CH48J

Circuit Diagram



Voltage

AC24,48,110,220,240V
50Hz
DC24,48,110V 50Hz

Count Range

1-9999 OPS
(X1/X10/X100)

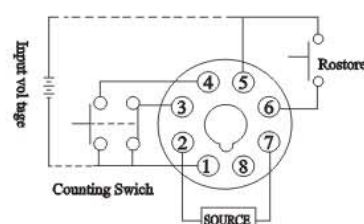
Operating Temperature

-10℃ to 55℃



CH7C

Circuit Diagram



Voltage

Ac36,48,110,220V 50Hz
DC12,24,36,48V

Count Range

1-9999 OPS

Operating Temperature

-10℃ to 55℃

CTL16 TURNOVER SWITCH

Application:

This turn-over switch is used in circuit AC.250V/16A with remote control function.

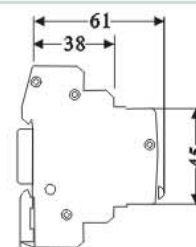
Technical Specification:

Rated Voltage $U_i(V)$	220V/250V
Rated current(A)	16A
Frequency	50Hz/60Hz

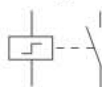
LATCHING RELAYS

Description:

Latching relays - operate when impulsed by a signal voltage. The impulse can be provided via a pushbutton or switch. The first pulse operates the relay and latches it into its set (opposite) state, the next operation of the pushbutton returns the relay into its reset (original) state.



designation	type	coil	power circuit	width in 17.5mm	pack qty.	cat ref.
latching relays	1 NO	230V 50Hz	16A-250V~	1	12	EP510



CTL18 TIME DELAY SWITCH

Application:

CTL18 time delay control switch is used in AC circuit with 50Hz/60Hz, 250V, rated current less than 16A to break lighting and electrical appliance automatically. It mainly used to control the corridor and stairs lighter of dwelling and commercial building.

Features:

- The connection way and time of delay can be adjusted freely. It has two choices of function device, turning on forever and time delay break. The time of time delay break device can be adjusted between 0.5-12min.
- It is convenient to use, act automatically and saving energy. It will light once we choose the time delay break button, and it will break automatically after we leave.
- One time delay switch can control 100pcs 20W lamp at the same time.
- Easy mounting. The mounting way is standard rail way mounting same as MCB. It can be mounted in consumer box together with MCB.

Technical data:

Rated Voltage $U_i(V)$	50Hz/60Hz
Rated current(A)	16A
Delayed time range	0.5~12MIN
Max power	2000W

Configuration and Mounting Dimensions:

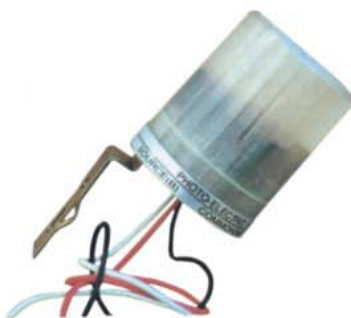


AUTOMATIC PHOTO-CONTROL

- (1) Standard lighting: 31.5-125 Lux (Under conditions at rated voltage and surroundings temperature 20℃)
- (2) Standard unlighting: Below 5 times of lighting (Under conditions at rated voltage and surroundings temperature 20℃)
- (3) Suitable dard surroundings temperature range: -10℃ ~ +40℃
- (4) Sevice life time: more than 2,000 times (Operational condition: rated voltage, surroundings temperature 20~C) Operational frequent: 6 Times/ Hour.
- (5) Rated frequency: for both 50Hz/60Hz



Z7-LMK(10-10)



ASO-



AS-



ST2210L 220V,10A



ST220 220V,10A



RG-1



RG02



Timer



E8



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