

Relay

Solid state relay



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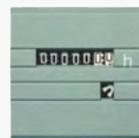
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Relay

Time relay



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Relay

SSR-1 Solid State Relay



SSR-1D4840



SSR-40DA



SSR-1A4825

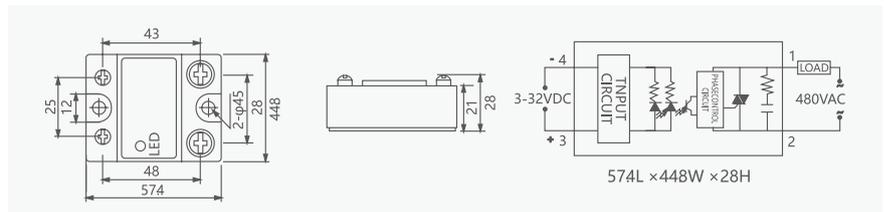


SSR-40AA

SSR-1 D48□

Item	Data
Load Voltage	480VAC
Load Current	10, 15, 20, 25, 30, 40, 50, 60, 75, 80, 90, 100, 120A
Control Voltage	3-32VDC
Control Current	DC10mA
On Voltage	≤1.5V
Off Leakage Current	≤2mA
On-off Time	≤10mS
Dielectric Strength	2500VAC
Insulation Resistance	1000MΩ/500VDC
Ambient Temperature	-30~+75°C
Mounting Methods	Bolted
The work instructions	LED

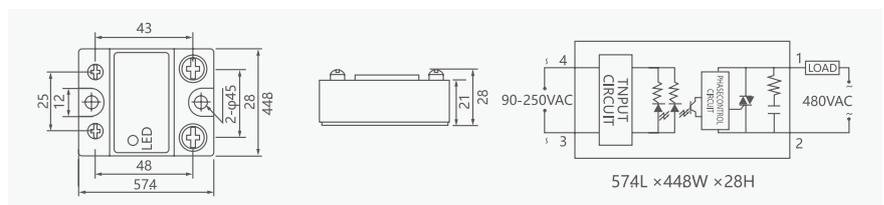
Overall and mounting dimensions(mm)



SSR-1 A48□

Item	Data
Load Voltage	480VAC
Load Current	10, 15, 20, 25, 30, 40, 50, 60, 75, 80, 90, 100, 120A
Control Voltage	70-280VAC
Control Current	AC≤12mA
On Voltage	≤1.5V
Off Leakage Current	≤2mA
On-off Time	≤10mS
Dielectric Strength	2500VAC
Insulation Resistance	1000MΩ/500VDC
Ambient Temperature	-30~+75°C
Mounting Methods	Bolted
The work instructions	LED

Overall and mounting dimensions(mm)



* Remark:

1. When the load current is 10A, you must install the radiator. When its 4' 0A or above, you must use fan forced cooling or water cooling.
2. When using inductive load, please connect a varistor on the output terminal, and its value should be 1.6-1.9 times of the load voltage.

D

Relay

SSR-1 Solid State Relay



SSR-1 DD220D10

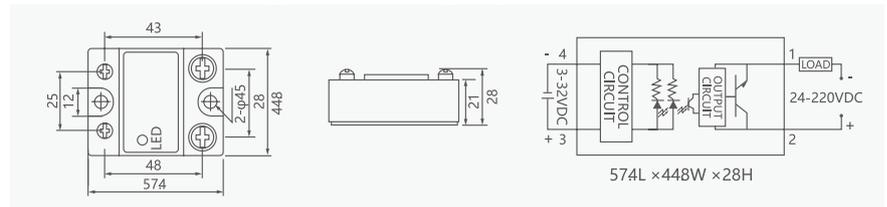
SSR-1 DD220D□

Item	Data
Load Voltage	5-60VDC,5-100VDC,5-220VDC(other voltage special customized)
Load Current	10,15,20,25,30,40, 50,60,80,100A
Control Voltage	3-32VDC
Control Current	DC10-40mA
On Voltage	≤1V
Off Leakage Current	≤2mA
On-off Time	≤5mS
Dielectric Strength	2000VAC
Insulation Resistance	500MΩ/500VDC
Ambient Temperature	-30~+75°C
Mounting Methods	Bolted
The work instructions	LED

Overall and mounting dimensions(mm)

* Remark:

1. When the load current is 10A, you must install the radiator. When it's 40A or above, you must use fan forced cooling or water cooling.
2. When using inductive load, users must add suppressive circuit.



Relay

SSR Solid State Relay

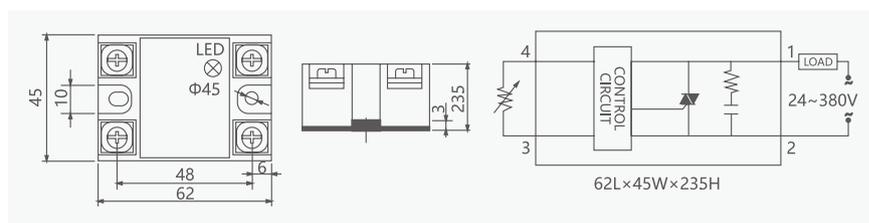


SSR-40VA

SSR-□VA (Fundamental type)

Item	Data
Load Voltage	24-380VAC
Load Current	10,25,40,50,60,80A
Control Voltage	VR:250KΩ/110VAC
	470-560KΩ/220VAC
Control Current	/
On Voltage	≤1.5V
Off Leakage Current	≤2mA
On-off Time	/
Dielectric Strength	2500VAC Input and output terminals cooling plate
Insulation Resistance	1000MΩ/500VDC
Ambient Temperature	-30~+75°C
Mounting Methods	Bolted
The work instructions	/

Overall and mounting dimensions(mm)

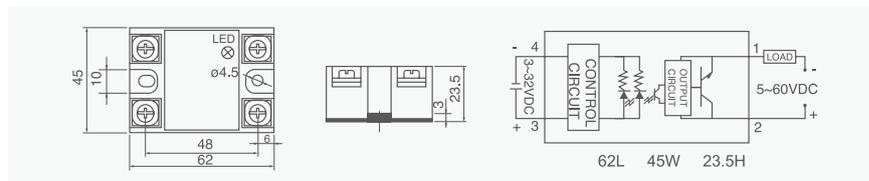


SSR-10DD

SSR-□DD (Fundamental type)

Item	Data
Load Voltage	10,25,40,50A
Load Current	5-60VDC
Control Voltage	3-32VDC
Control Current	DC10-50mA
On Voltage	≤1V
Off Leakage Current	≤2mA
On-off Time	≤10mS
Dielectric Strength	2000VAC
Insulation Resistance	500MΩ/500VDC
Ambient Temperature	-30~+75°C
Mounting Methods	Bolted
The work instructions	LED

Overall and mounting dimensions(mm)



* Remark:

1. When the load current is 10A, you must install the radiator. When it's 40A or above, you must use fan forced cooling or water cooling.
2. When using inductive load, please connect a varistor on the output terminal, and its value should be 1.6-1.9 times of the load voltage.

Relay

SSR-3 Solid State Relay

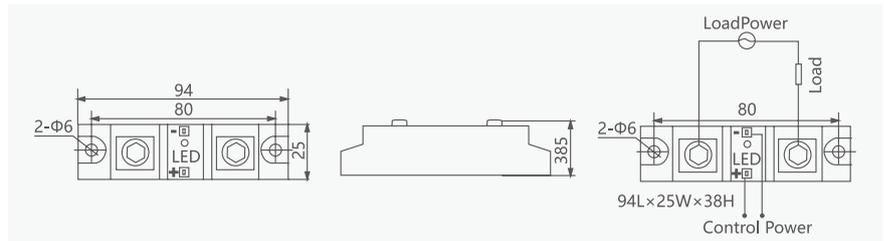


SSR-H3100ZF

SSR-H3100ZF

Item	Data
Load Voltage	440VAC (Fundamental type), 660VAC (High voltage type) and 1200 (Enhanced type)
Load Current	80,1001,20A
Control Voltage	90-250VAC or3 -32VDC
Control Current	AC≤12mA DC10mA
On Voltage	≤1.5V
Off Leakage Current	≤4mA
On-off Time	≤10mS
Dielectric Strength	2500VAC
Insulation Resistance	1000MQ/500VDC
Ambient Temperature	-30~+75°C
Mounting Methods	Bolted
The work instructions	LED

Overall and mounting dimensions(mm)



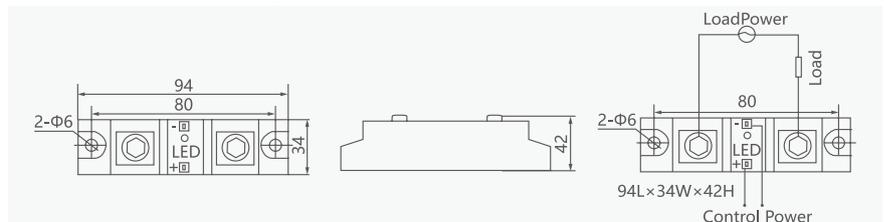
SSR-H3200ZF



SSR-H3200ZF

Item	Data
Load Voltage	440VAC (Fundamental type), 660VAC (High voltage type) and 1200 (Enhanced type)
Load Current	150,200,250,290A
Control Voltage	90-250VAC or3 -32VDC
Control Current	AC≤12mA DC10mA
On Voltage	≤1.5V
Off Leakage Current	≤4mA
On-off Time	≤10mS
Dielectric Strength	2500VAC
Insulation Resistance	1000MQ/500VDC
Ambient Temperature	-30~+75°C
Mounting Methods	Bolted
The work instructions	LED

Overall and mounting dimensions(mm)



* Remark:

1. When the load current is 10A, you must install the radiator. When it's 40A or above, you must use fan forced cooling or water cooling.
2. When using inductive load, please connect a varistor on the output terminal, and its value should be 1.6-1.9 times of the load voltage.

Relay

SSR-3 Solid State Relay

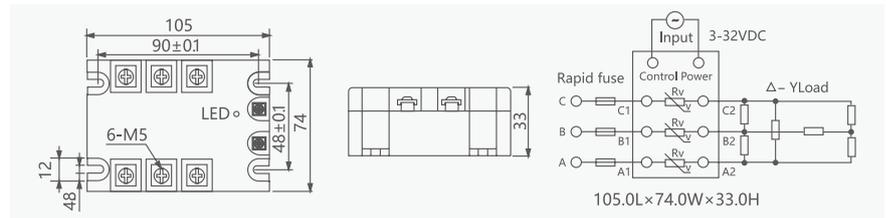


SSR-3 032 3840Z

SSR-3 032 38□Z (Fundamental type)

Item	Data
Load Voltage	380VAC,660VAC
Load Current	10,15,20,25,30,40,50,60,75,80,100,120,150,200A
Control Voltage	3-32VDC
Control Current	20mA
On Voltage	≤1.5V
Off Leakage Current	≤10mA
On-off Time	≤10mS
Dielectric Strength	2500VAC
Insulation Resistance	1000MΩ/500VDC
Ambient Temperature	-30~+75°C
Mounting Methods	Bolted
The work instructions	LED

Overall and mounting dimensions(mm)

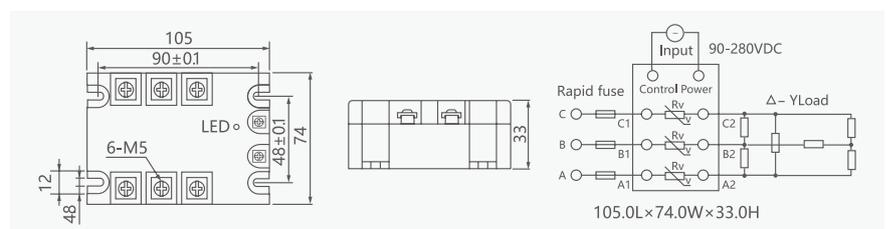


SSR-3 A3840Z

SSR-3 A38□Z (Fundamental type)

Item	Data
Load Voltage	380VAC,660VAC
Load Current	10,15,20,25,30,40,50,60,75,80,100,120,150,200A
Control Voltage	70-280VAC
Control Current	AC≤12mA
On Voltage	≤1.5V
Off Leakage Current	≤10mA
On-off Time	≤10mS
Dielectric Strength	2500VAC
Insulation Resistance	1000MΩ/500VDC
Ambient Temperature	-30~+75°C
Mounting Methods	Bolted
The work instructions	LED

Overall and mounting dimensions(mm)



* Remark:

1. When the load current is 10A, you must install the radiator. When it's 40A or above, you must use fan forced cooling or water cooling.
2. When using inductive load, please connect a varistor on the output terminal, and its value should be 1.6-1.9 times of the load voltage.



Relay

55.02,55.04 General-purpose Relay

General

Various relays, without LED, test button
 With 2Z,4Z contact forms
 With various terminal types
 Gilt contact types
 Transparent dust-proof cover,
 Various mounting types
 Various sockets available



55.02



55.04



PYF08A



PYF08A-E



PY-08A



PYF14A

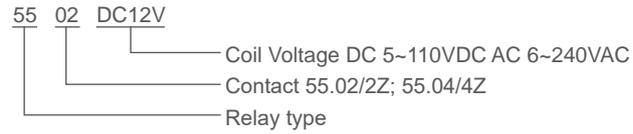


PYF14A-E



PY-14A

Type designation



Technical data

Contact Rating	2Z	4Z
Contact Resistance	50mΩ(1A 6VDC)	50mΩ(1A 6VDC)
Contact Capacity	10A/220VAC	5A/220VAC
	30VDC	30VDC 125VAC
Insulation Resistance	500MΩ, 500VDC	
Dielectric Strength	BCC 1000VAC 1min	
	BOC 1500VAC 1min	
	CCC 1500VAC 1min	
Operating Time	25ms/25ms	
Terminal Type	PCB and Socket	

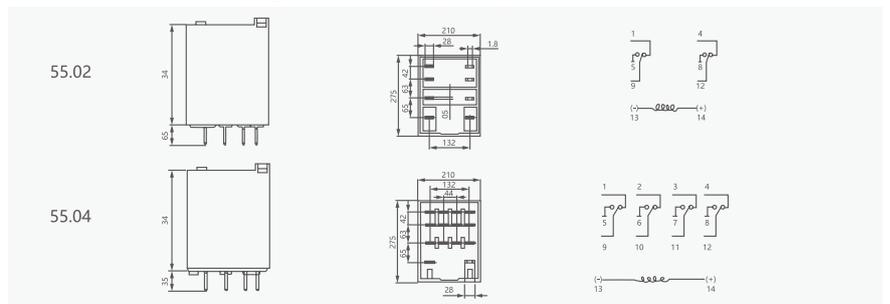
Coil rating

Nominal Coil Power: 0.9W/1.2VA

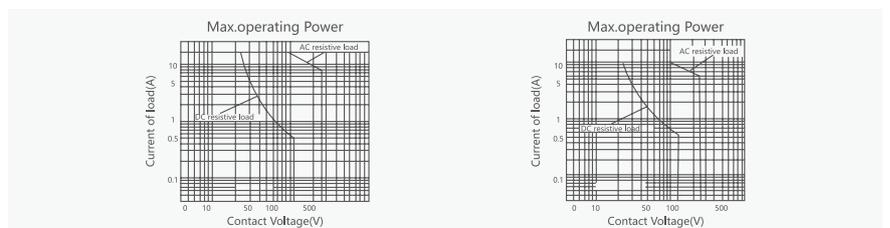
Coil versions

Nominal Voltage VDC	Pull-in Voltage VDC	Release Voltage VDC	Coil Resistance Ω:±10%	Nominal Voltage VDC	Pull-in Voltage VDC	Release Voltage VDC	Coil Resistance Ω:±10%
5	4.0	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	120	96.0	36.0	3500
110	88.0	11	12100	220/240	176.0	66.0	14000/16500

Overall and mounting dimensions(mm)



Reference data



D

Relay

55.32,55.34 General-purpose Relay

General

Various relays, without LED, test button
 With 2Z,4Z contact forms
 With various terminal types
 Gilt contact types
 Transparent dust-proof cover,
 Various mounting types
 Various sockets available



55.32



55.34

Type designation



Technical data

Contact Rating	2Z	4Z
Contact Resistance	50mΩ(1A 6VDC)	50mΩ(1A 6VDC)
Contact Capacity	10A/220VAC	5A/220VAC
	30VDC	30VDC 125VAC
Insulation Resistance	500MΩ, 500VDC	
Dielectric Strength	BCC 1000VAC 1min	
	BOC 1500VAC 1min	
	CCC 1500VAC 1min	
Operating Time	25ms/25ms	
Terminal Type	PCB and Socket	

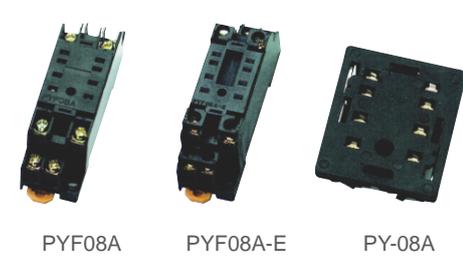
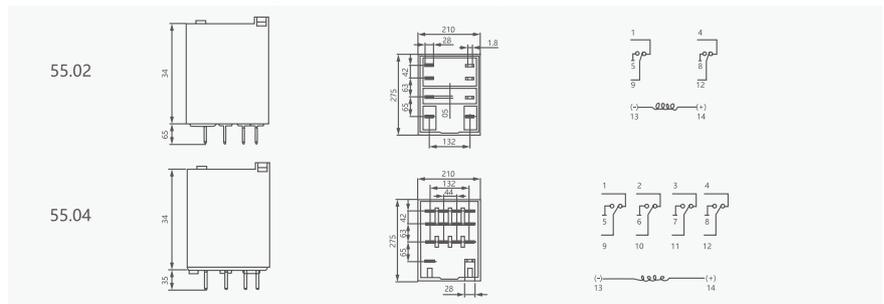
Coil rating

Nominal Coil Power: 0.9W/1.2VA

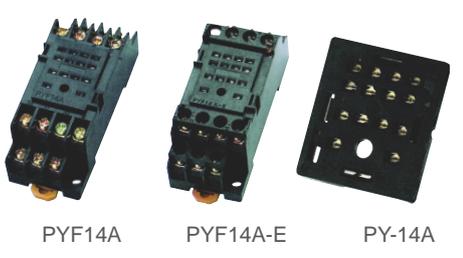
Coil versions

Nominal Voltage VDC	Pull-in Voltage VDC	Release Voltage VDC	Coil Resistance Ω:±10%	Nominal Voltage VDC	Pull-in Voltage VDC	Release Voltage VDC	Coil Resistance Ω:±10%
5	4.0	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	120	96.0	36.0	3500
110	88.0	11	12100	220/240	176.0	66.0	14000/16500

Overall and mounting dimensions(mm)

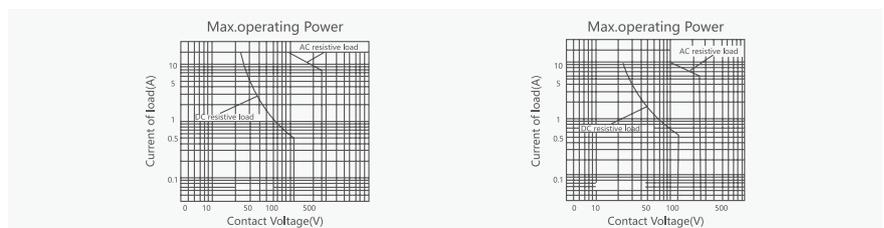


PYF08A PYF08A-E PY-08A



PYF14A PYF14A-E PY-14A

Reference data



Relay

56.02 General-purpose Relay

General

- Various relays, without LED, test button
- With 2Z contact forms
- With various terminal types
- Gilt contact types
- Transparent dust-proof cover,
- Various mounting types
- Various sockets available



56.02

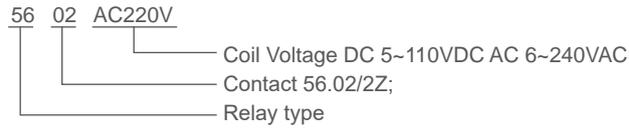


PTF08A



PTF08A-E

Type designation



Technical data

Contact Rating	2Z
Contact Resistance	50mΩ(1A 6VDC)
Contact Capacity	10A/220VAC
	30VDC
Insulation Resistance	500MΩ, 500VDC
Dielectric Strength	BCC 1000VAC 1min
	BOC 1500VAC 1min
	CCC 1500VAC 1min
Operating Time	25ms/25ms
Terminal Type	PCB and Socket

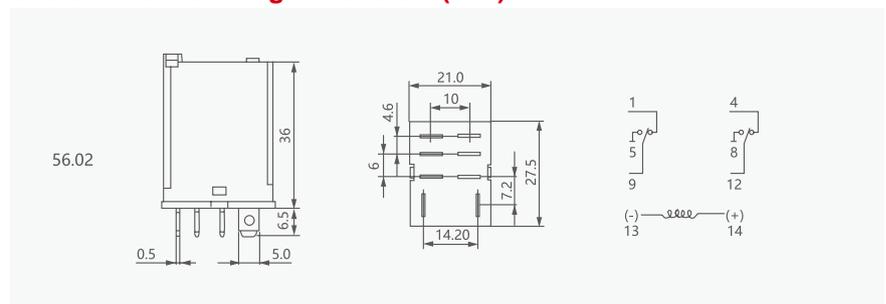
Coil rating

Nominal Coil Power: 0.9W/1.2VA

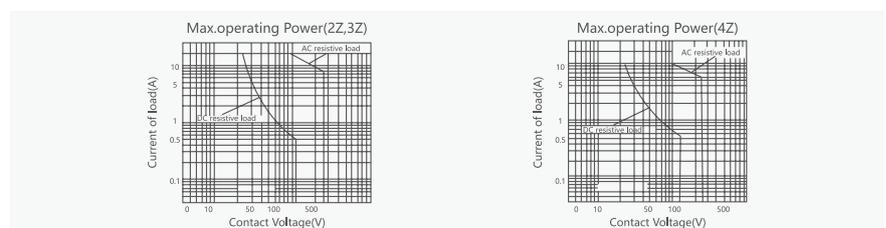
Coil versions

Nominal Voltage VDC	Pull-in Voltage VDC	Release Voltage VDC	Coil Resistance Ω:±10%	Nominal Voltage VDC	Pull-in Voltage VDC	Release Voltage VDC	Coil Resistance Ω:±10%
5	4.0	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	120	96.0	36.0	3500
110	88.0	11	12100	220/240	176.0	66.0	14000/16500

Overall and mounting dimensions(mm)



Reference data



Relay

57.02,57.04 General-purpose Relay

General

Various relays, including LED, test button
 With 2Z,4Z contact forms
 With various terminal types
 Gilt contact types
 Transparent dust-proof cover,
 Various mounting types
 Various sockets available



57.02



57.04

Type designation



Technical data

Contact Rating	2Z,3Z	4Z
Contact Resistance	50mΩ(1A 6VDC)	50mΩ(1A 6VDC)
Contact Capacity	10A/220VAC	5A/220VAC
	30VDC	30VDC
Insulation Resistance	500MΩ, 500VDC	
Dielectric Strength	BCC 1000VAC 1min	
	BOC 1500VAC 1min	
	CCC 1500VAC 1min	
Operating Time	25ms/25ms	
Terminal Type	PCB and Socket	

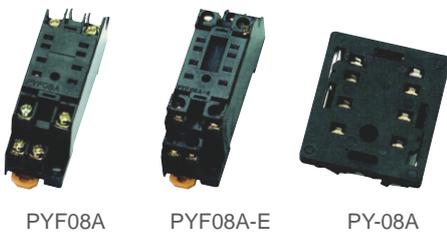
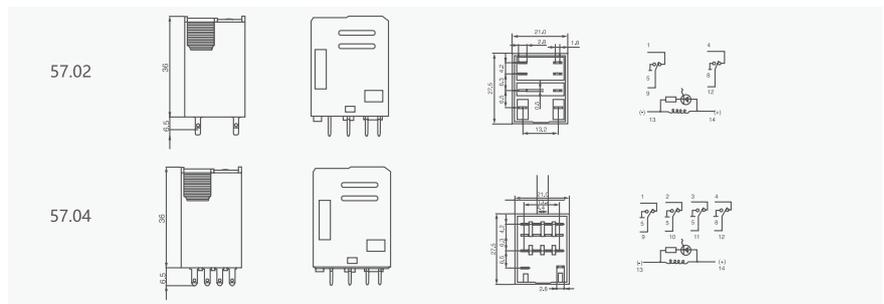
Coil rating

Nominal Coil Power: 0.9W/1.2VA

Coil versions

Nominal Voltage VDC	Pull-in Voltage VDC	Release Voltage VDC	Coil Resistance Ω:±10%	Nominal Voltage VDC	Pull-in Voltage VDC	Release Voltage VDC	Coil Resistance Ω:±10%
5	4.0	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	120	96.0	36.0	3500
110	88.0	11	12100	220/240	176.0	66.0	14000/16500

Overall and mounting dimensions(mm)



PYF08A

PYF08A-E

PY-08A

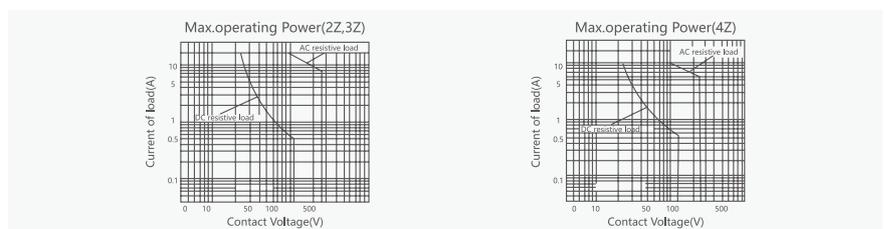


PYF14A

PYF14A-E

PY-14A

Reference data



Relay

58.02 General-purpose Relay

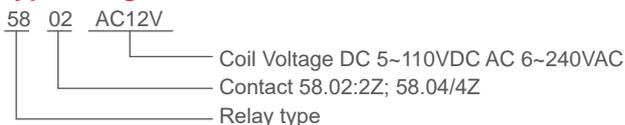
General

Various relays, including LED, test button
 With 2Z,4Z contact forms
 With various terminal types
 Gilt contact types
 Transparent dust-proof cover,
 Various mounting types
 Various sockets available



58.02

Type designation



Technical data

Contact Rating	2Z	4Z
Contact Resistance	50mΩ(1A 6VDC)	50mΩ(1A 6VDC)
Contact Capacity	10A/220VAC	5A/220VAC
	30VDC	30VDC
Insulation Resistance	500MΩ, 500VDC	
Dielectric Strength	BCC 1000VAC 1min	
	BOC 1500VAC 1min	
	CCC 1500VAC 1min	
Operating Time	25ms/25ms	
Terminal Type	PCB and Socket	

Coil rating

Nominal Coil Power: 0.9W/1.2VA

Coil versions

Nominal Voltage VDC	Pull-in Voltage VDC	Release Voltage VDC	Coil Resistance Ω:±10%	Nominal Voltage VDC	Pull-in Voltage VDC	Release Voltage VDC	Coil Resistance Ω:±10%
5	4.0	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	120	96.0	36.0	3500
110	88.0	11	12100	220/240	176.0	66.0	14000/16500

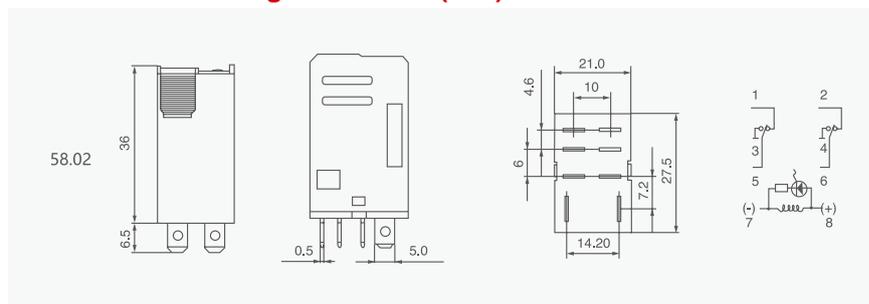


PTF08A

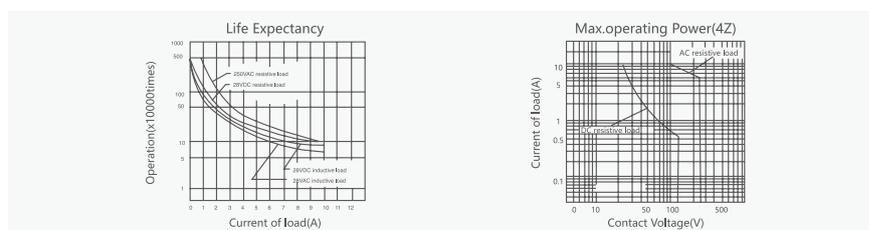


PTF08A-E

Overall and mounting dimensions(mm)



Reference data



Relay

60.12,60.13 General-purpose Relay

General

10 A Contact operating capacity
 Mechanical life≥100000
 With 2Z,3Z contact forms
 Standard tube terminal
 With matched socket
 Without LED,test button



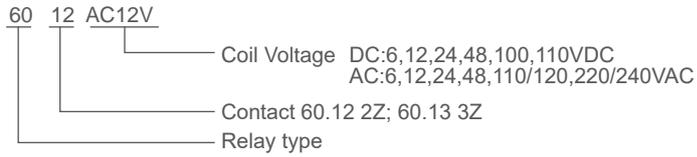
60.12



60.13

Socket type

Type designation



Technical data

Contact Rating	2Z	3Z
Contact Resistance	50mΩ(1A 6VDC)	50mΩ(1A 6VDC)
Contact Capacity	10A/220VAC	10A/5A(NO/NC)
	28VDC/220VAC	28VDC/220VAC
Insulation Resistance	500MΩ, 500VDC	
Dielectric Strength	BCC 1000VAC 1min	
	BOC 1500VAC 1min	
Operating Time	30ms/20ms	
Terminal Type	Socket	
Terminal Type	PCB and Socket	

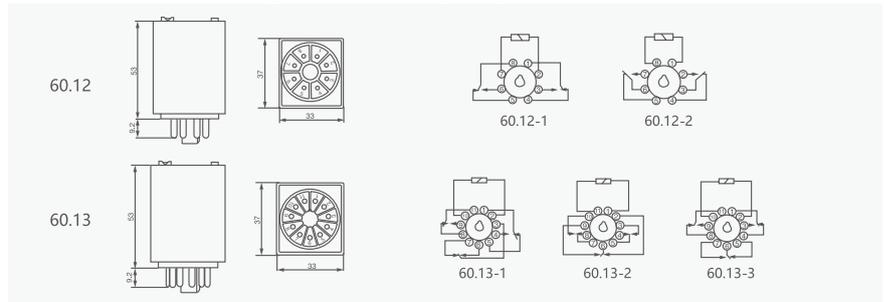
Coil rating

Nominal Coil Power: 1.5W/2.5VA

Coil versions

Nominal Voltage VDC	Pull-in Voltage VDC	Release Voltage VDC	Coil Resistance Ω:±10%	Nominal Voltage VDC	Pull-in Voltage VDC	Release Voltage VDC	Coil Resistance Ω:±10%
6	4.8	0.60	24	6	4.80	1.80	14.5
12	9.6	1.20	96	12	9.60	3.60	20
24	19.2	2.40	384	24	19.2	7.20	80
48	38.4	4.80	1540	48	38.4	14.4	320
100	80.0	10.0	9600	110/120	88.0	36.0	1700
110	88.0	11.0	9650	220/240	176.0	72.0	7400/8760

Overall and mounting dimensions(mm)



PF083A



PF083A-E

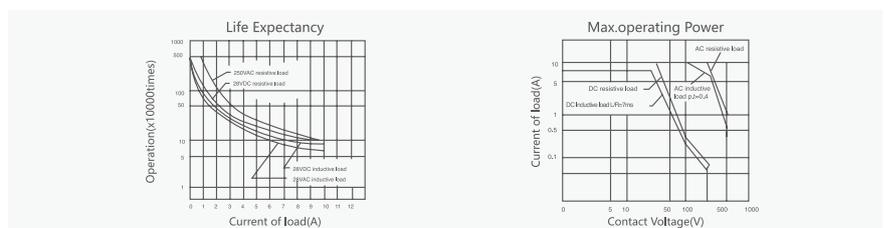


PF113A



PF113A-E

Reference data



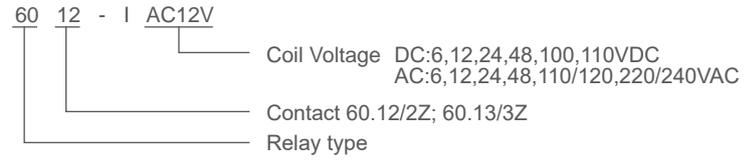
Relay

60.12-I,60.13-I General-purpose Relay

General

10 A Contact operating capacity
 Mechanical life ≥ 100000
 With 2Z, 3Z contact forms
 Standard tube terminal
 With matched socket
 Without LED, test button

Type designation



Technical data

Contact Rating	2Z	3Z
Contact Resistance	50mΩ(1A 6VDC)	50mΩ(1A 6VDC)
Contact Capacity	10A	10A/5A(NO/NC)
	30VDC/220VAC	30VDC/220VAC
Insulation Resistance 500MΩ, 500VDC		
Dielectric Strength	BCC 1000VAC 1min	
	BOC 1500VAC 1min	
Operating Time	30ms/20ms	
Terminal Type	Socket	



60.12-I



60.13-I

Socket type

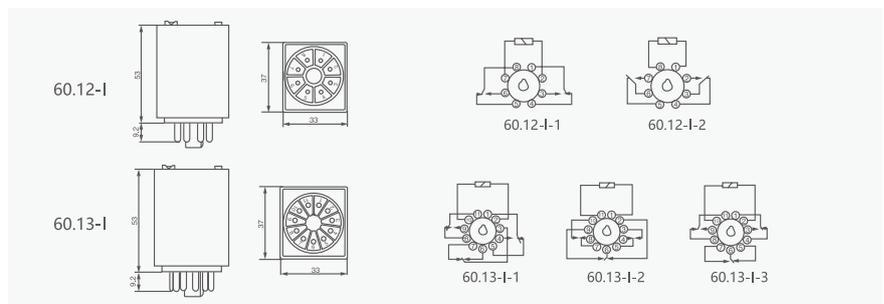
Coil rating

Nominal Coil Power: 1.5W/2.5VA

Coil versions

Nominal Voltage VDC	Pull-in Voltage VDC	Release Voltage VDC	Coil Resistance Ω:±10%	Nominal Voltage VDC	Pull-in Voltage VDC	Release Voltage VDC	Coil Resistance Ω:±10%
6	4.8	0.60	24	6	4.80	1.80	14.5
12	9.6	1.20	96	12	9.60	3.60	20
24	19.2	2.40	384	24	19.2	7.20	80
48	38.4	4.80	1540	48	38.4	14.4	320
100	80.0	10.0	9600	110/120	88.0	36.0	1700
110	88.0	11.0	9650	220/240	176.0	72.0	7400/8760

Overall and mounting dimensions(mm)



PF083A



PF083A-E

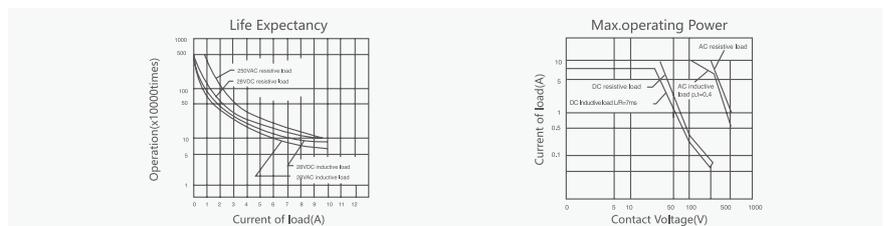


PF113A



PF113A-E

Reference data



Relay

70.2,70.3 General-purpose Relay

General

- 10 A Contact operating capacity
- Mechanical life ≥ 100000
- With 2Z,3Z contact forms
- Standard tube terminal
- With matched socket
- With LED, test button



70.2



70.3

Socket type



PF083A



PF083A-E

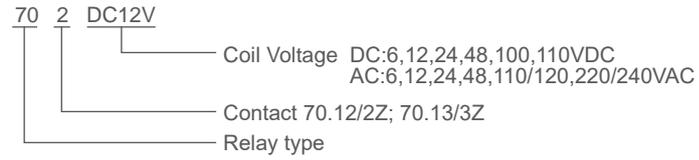


PF113A



PF113A-E

Type designation



Technical data

Contact Rating	2Z	3Z
Contact Resistance	50mΩ(1A 6VDC)	50mΩ(1A 6VDC)
Contact Capacity	10A	10A/5A(NO/NC)
	28VDC/220VAC	28VDC/220VAC
Insulation Resistance 500MΩ, 500VDC		
Dielectric Strength	BCC 1000VAC 1min	
	BOC 1500VAC 1min	
Operating Time	30ms/20ms	
Terminal Type	Socket	

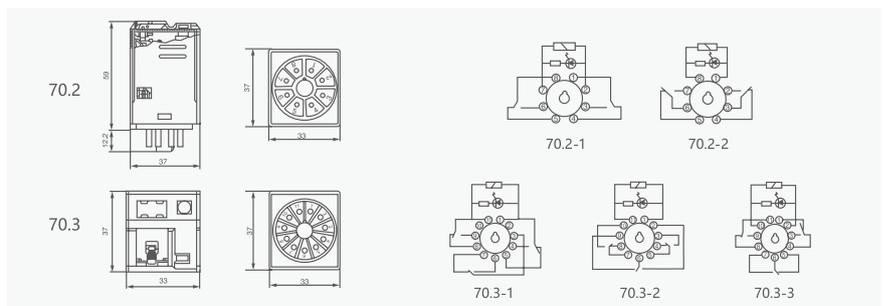
Coil rating

Nominal Coil Power: 1.5W/2.5VA

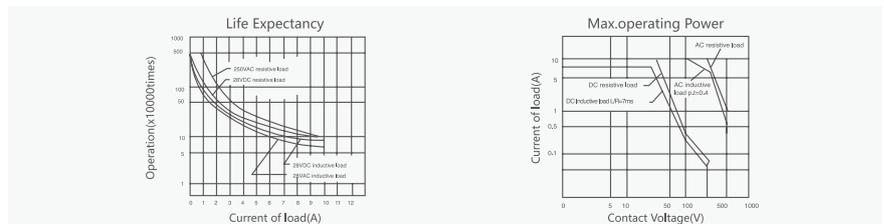
Coil versions

Nominal Voltage VDC	Pull-in Voltage VDC	Release Voltage VDC	Coil Resistance Ω:±10%	Nominal Voltage VDC	Pull-in Voltage VDC	Release Voltage VDC	Coil Resistance Ω:±10%
6	4.8	0.60	19	6	4.80	1.80	4.6
12	9.6	1.20	96	12	9.60	3.60	19
24	19.2	2.40	440	24	19.2	7.20	80
48	38.4	4.80	1660	48	38.4	14.4	320
100	80.0	10.0	9820	110/120	88.0	36.0	1700
110	88.0	11.0	9900	220/240	176.0	72.0	7400/8760

Overall and mounting dimensions(mm)



Reference data



Relay

MY2,MY3,MY4 General-purpose Relay



MY2

MY3



MY4



PYF08A



PYF08A-E



PY-08A



PYF11A



PYF14A



PYF14A-E

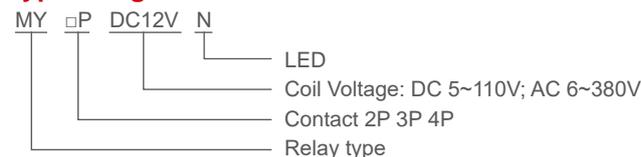


PY-14A

General

Various relays, including LED, test button
 With 2Z, 4Z contact forms
 With various terminal types
 Gilt contact types
 Transparent dust-proof cover
 Various mounting types
 Various sockets available

Type designation



Technical data

Contact Rating	2Z,3Z	4Z
Contact Resistance	50mΩ(1A 6VDC)	50mΩ(1A 6VDC)
Contact Capacity	5A/220VAC	3A/220VAC 30VDC

Insulation Resistance	500MΩ, 500VDC
Dielectric Strength	BCC 1000VAC 1min
	BOC 1500VAC 1min
	CCC 1500VAC 1min
Operating Time	20ms/25ms
Terminal Type	PCB and Socket

Coil rating

Nominal Coil Power: 0.9W/1.2VA

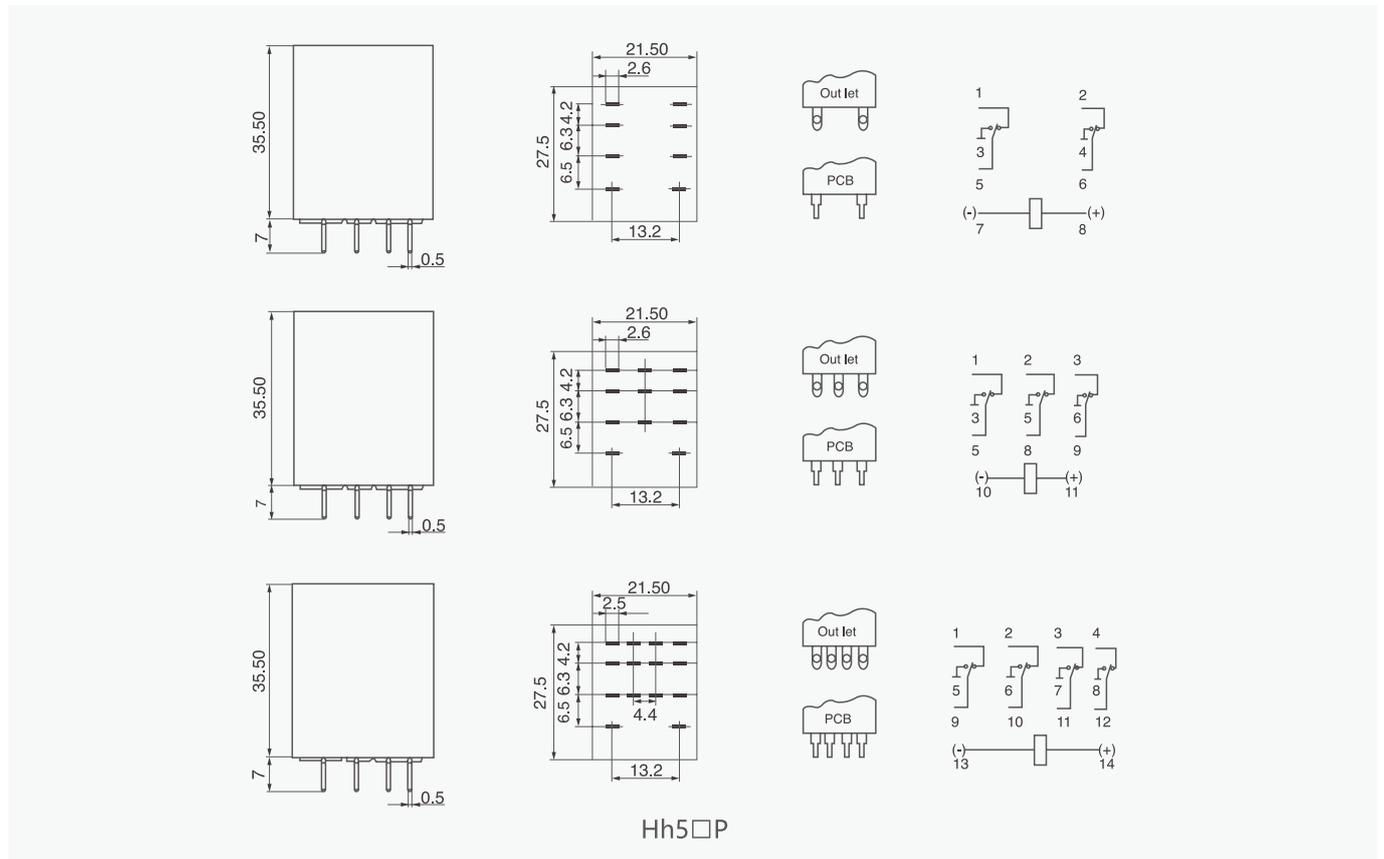
Coil versions

Nominal Voltage VDC	Pull-in Voltage VDC	Release Voltage VDC	Coil Resistance Ω:±10%	Nominal Voltage VDC	Pull-in Voltage VDC	Release Voltage VDC	Coil Resistance Ω:±10%
5	4.0	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	2500	110	96.0	36.0	3500
110	88.0	11.0	12100	220/240	176.0	66.0	14000

Relay

MY2,MY3,MY4 General-purpose Relay

Overall and mounting dimensions(mm)



Reference data



Relay

LY2,LY3,LY4 General-purpose Relay



LY2

LY3



LY4



PTF08A



PTF08A-E



PTF11A



PTF14A-E

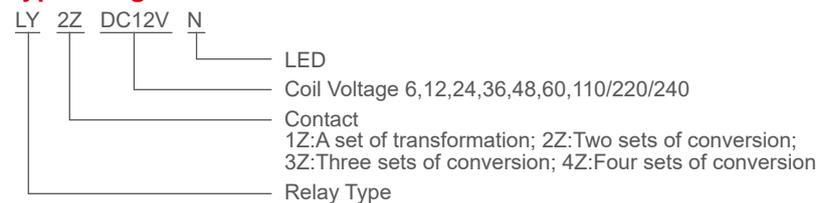


13F-4Z-B

General

Various relays, including LED
 10A Transfer Contacts
 1Z,2Z,3Z,4Z Contact operating form
 Various Terminals Available
 Transparent dust-proof cover
 Various mounting types
 Various sockets available
 With LED, test button

Type designation



Technical data

Contact Rating	1Z	2Z,3Z,4Z
Contact Resistance	50mΩ(1A 6VDC)	50mΩ(1A 6VDC)
Contact Capacity	10A250VAC/28VDC	10A 250VAC/28VDC

Insulation Resistance	500MΩ
Dielectric Strength	BCC 1000VAC 1min
	BOC 1500VAC 1min
	CCC 1500VAC 1min
Operating Time	25ms/25ms
Terminal Type	PCD and Socket

Coil rating

Nominal Coil Power: 0.9W/1.2VA

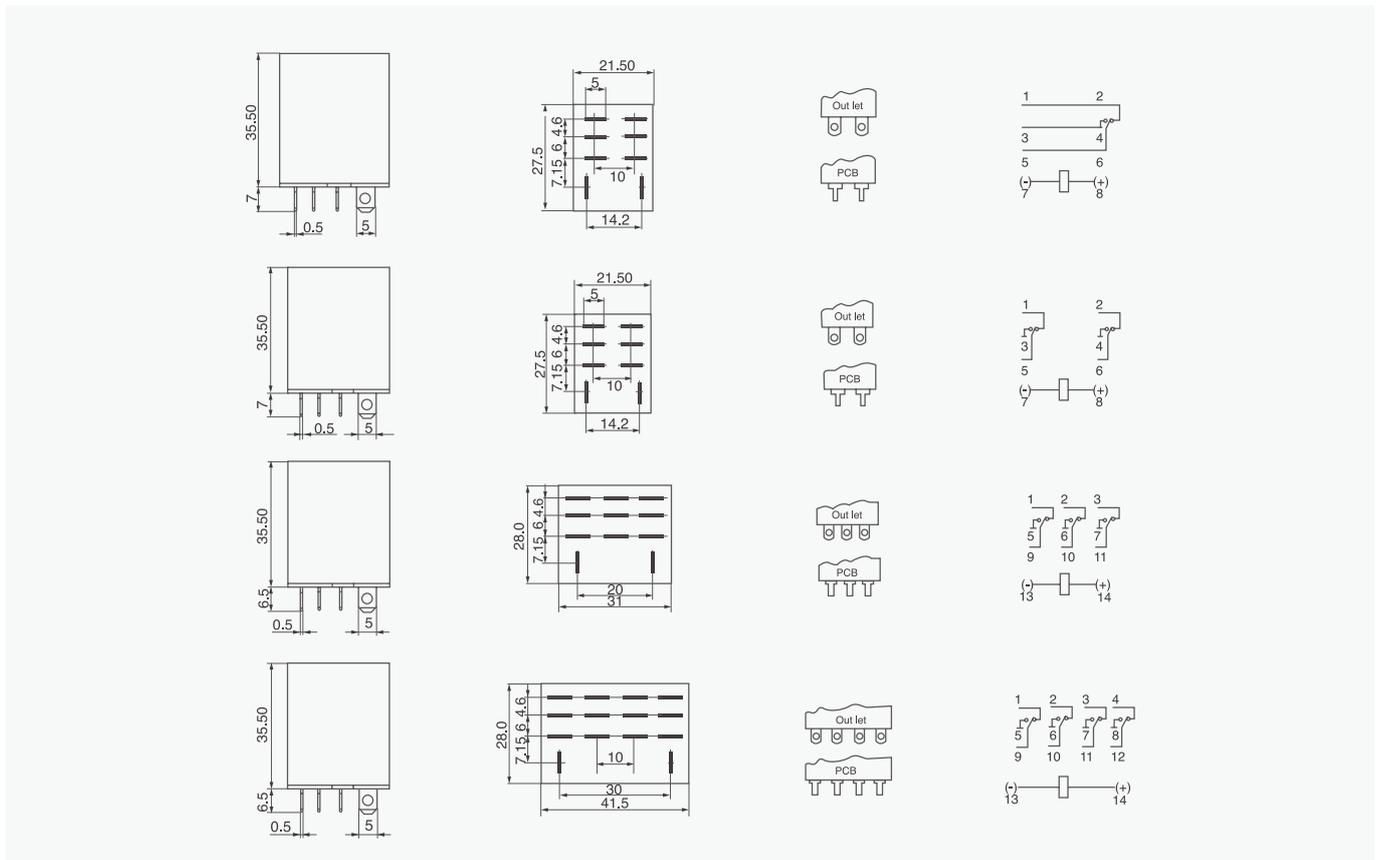
Coil versions

Nominal Voltage VDC	Pull-in Voltage VDC	Release Voltage VDC	Coil Resistance Ω:±10%	Nominal Voltage VDC	Pull-in Voltage VDC	Release Voltage VDC	Coil Resistance Ω:±10%
5	4.0	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	2500	110	96.0	36.0	3500
110	88.0	11.0	12100	220/240	176.0	66.0	14000/16500

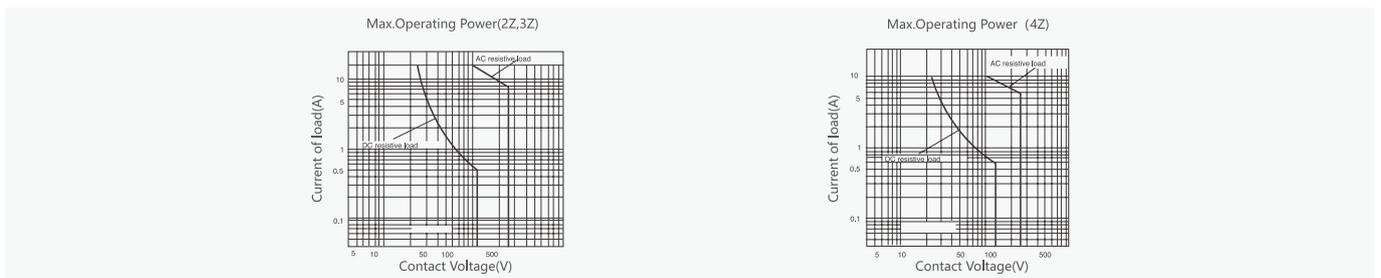
Relay

LY2,LY3,LY4 General-purpose Relay

Overall and mounting dimensions(mm)



Reference data



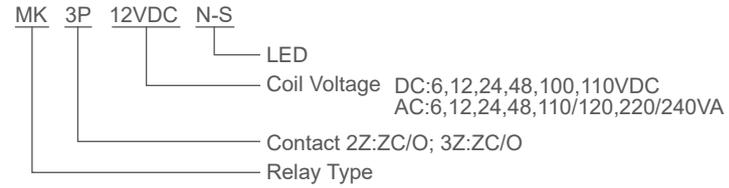
Relay

MK3P General-purpose Relay

General

- 10 A Contact operating capacity
- Mechanical life ≥ 100000
- With 2Z, 3Z contact forms
- Standard tube terminal
- With matched socket

Type designation



Technical data

Contact Rating	2Z	3Z
Contact Resistance	50mΩ(1A 6VDC)	50mΩ(1A 6VDC)
Contact Capacity	10A	10A/5A(NO/NC)
	28VDC/250VAC	28VDC/250VAC
Insulation Resistance 500MΩ, 500VDC		
Dielectric Strength	BCC 1000Vr.m.s 1min	
	BOC 1500Vr.m.s 1min	
Operating Time	30ms/20ms	
Terminal Type	Socket	



MK3P

Coil rating

Nominal Coil Power: 1.5W/2.5VA

Coil versions

Nominal Voltage VDC	Pull-in Voltage VDC	Release Voltage VDC	Coil Resistance Ω:±10%	Nominal Voltage VDC	Pull-in Voltage VDC	Release Voltage VDC	Coil Resistance Ω:±10%
6	4.8	0.60	40	6	4.80	1.80	5.5
12	9.6	1.20	80	12	9.60	3.60	24
24	19.2	2.40	325	24	19.2	7.20	72
48	38.4	4.80	1200	48	38.4	14.4	430
100	80.0	10.0	7550	110/120	88.0	36.0	1512
110	88.0	11.0	9000	220/240	176.0	72.0	6050/7200



US-11

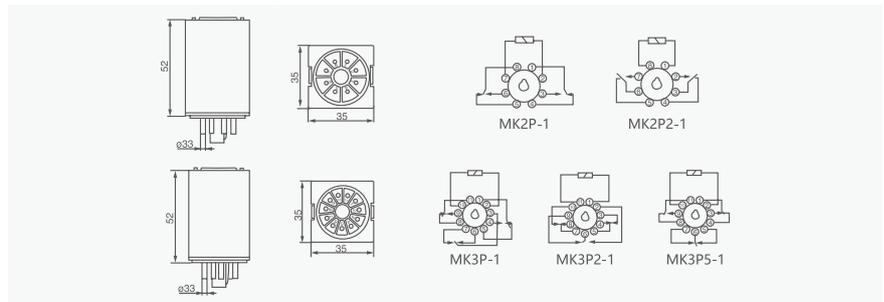


PF113A

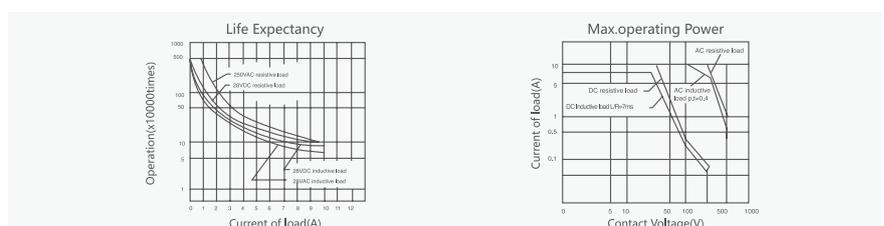


PF113A-E

Overall and mounting dimensions(mm)



Reference data



Relay

YCJ6 Slim Relay



General

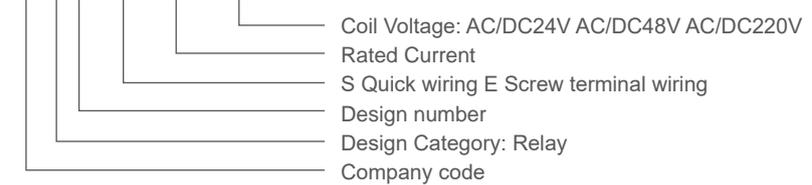
The YCJ6 Slim Relay is a compact, small-sized, low-power, and fast-response electrical switch device. Based on the principle of electromagnetic induction, it generates a magnetic field through a solenoid to attract or release the iron core, thereby completing the switching operation.

Applications: Elevators, industrial automation, industrial control equipment, inverters, charging systems, smart home appliances, and other scenarios.

Type designation

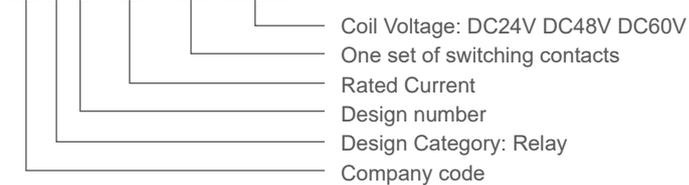
YCJ6 Product Combination

YC J 6 - S - 6A AC/DC24V



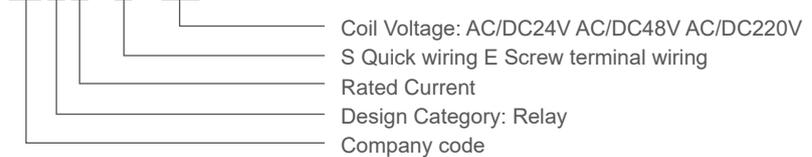
YCJ6 Relay

YC J 6 - 6A - 1ZF DC24V



YCJ6 Socket

YC J 6 - S - 24V



Note: Default a group of conversions

Operating Conditions

1. Ambient temperature: -40°C~+85°C
2. Relative humidity: 5°C≤85%
3. Altitude: ≤2000m
4. Environmental conditions: no harmful gases and vapors, no conductive or explosive dust, no severe mechanical vibration



Relay

YCJ6 Slim Relay

Model matching

Product Combination Model	Compatible Relay Model	Compatible Socket Model
YCJ6-S-6AAC/DC24V	YCJ6-6A-1ZF DC24V	YCJ6-S-24V
YCJ6-S-6AAC/DC48V	YCJ6-6A-1ZF DC48V	YCJ6-S-48V
YCJ6-S-6AAC/DC220V	YCJ6-6A-1ZF DC60V	YCJ6-S-220V
YCJ6-E-6AAC/DC24V	YCJ6-6A-1ZF DC24V	YCJ6-E-24V
YCJ6-E-6AAC/DC48V	YCJ6-6A-1ZF DC48V	YCJ6-E-48V
YCJ6-E-6AAC/DC220V	YCJ6-6A-1ZF DC60V	YCJ6-E-220V

Accessories

Busbar	Marking Plate
	

Technical data

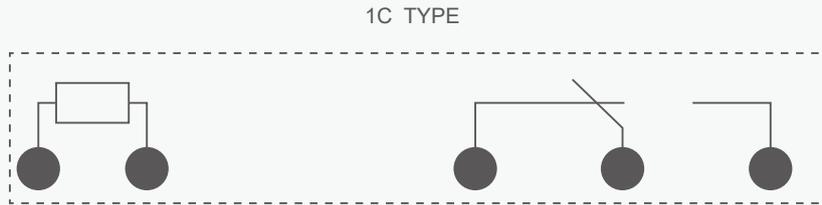
Characteristics (initial)	
Insulation resistance	1000MΩ(at 500VDC)
Dielectric strength	Between coil and contacts: 5000V for 1 minute
	Between across contacts of same pole: 1000V for 1 minute
Operate time (at normal voltage)	10ms max.
Release time (at normal voltage)	5ms max.
vibration resistance	10Hz-55Hz,at double amplitude 1mm
Shock resistance	Functional: Min.100m/s ² Destructive: Min.1000m/s ²

Relay

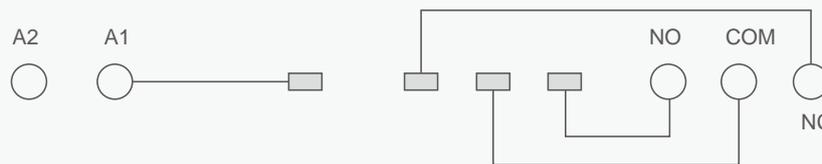
YCJ6 Slim Relay

Wiring diagram

Terminal-arrangement(bottom view)



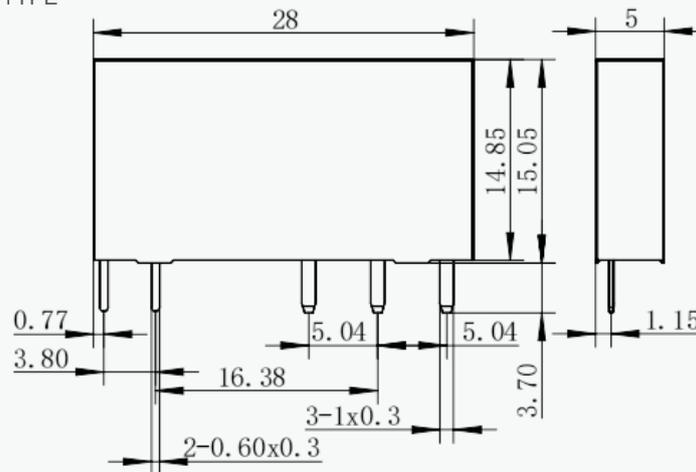
Socket Terminal-arrangement



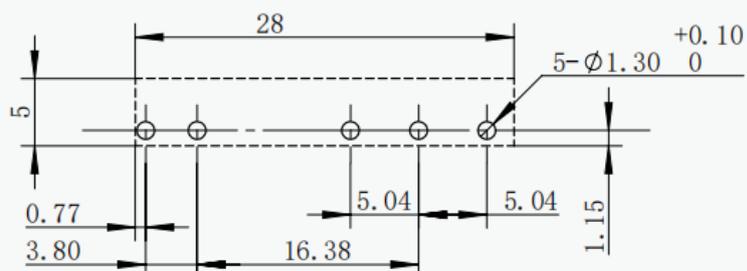
Overall and mounting dimensions(mm)

OUTLINE

terminal Vertical mounition: 1C TYPE



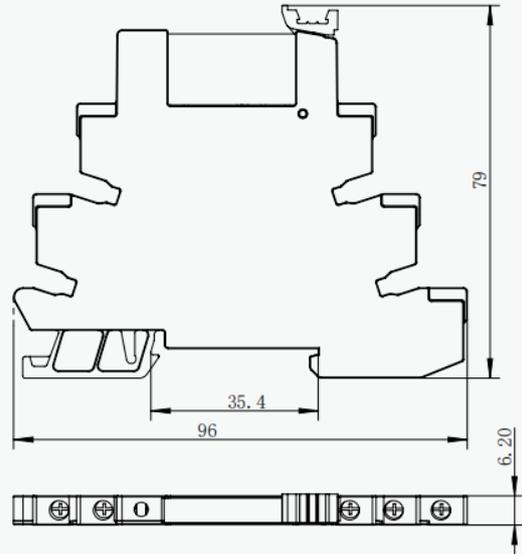
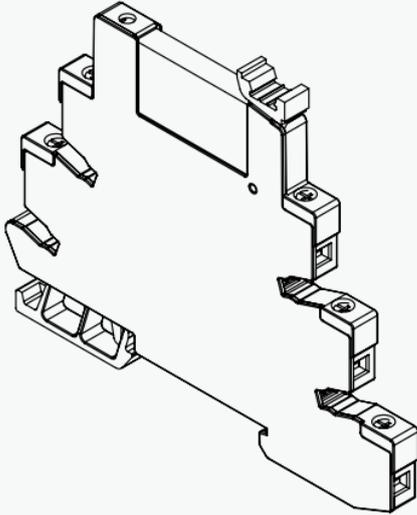
terminal Vertical mounition: 1C TYPE



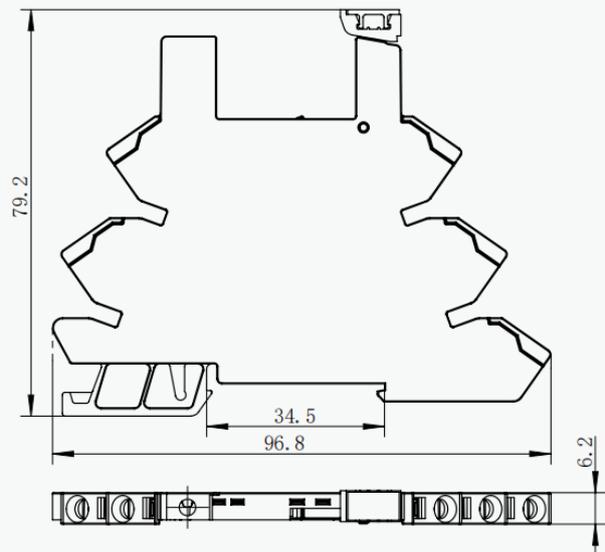
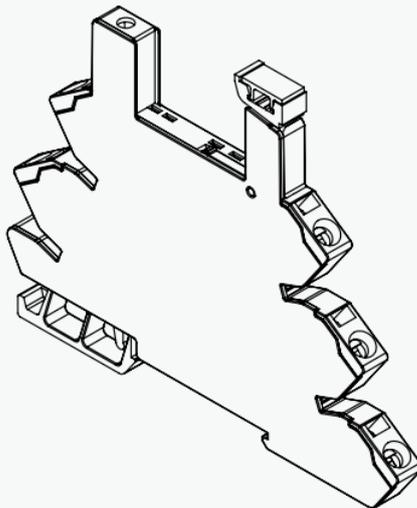
Relay

YCJ6 Slim Relay

Socket
type outline



type outline



Relay

XJ3-D Protection Relay



General

XJ3-D phase failure and phase sequence protection relay is used to provide overvoltage, undervoltage and phase failure protection in three-phase AC circuits and phase sequence protection in irreversible transmission devices and features reliable performance, wide application and convenient use. The protector starts to work when it is connected to the power control circuit in accordance with the drawing. When the fuse of any phase in the three-phase circuit is open or when there is a phase failure in the power supply circuit, the XJ3-D operates immediately to control the contact to cut off the power supply of the AC contactor coil of the main circuit so that the main contact of the AC contactor operates to provide the load with phase failure protection. When the phases of a three-phase irreversible device with predetermined phase sequence are connected incorrectly due to maintenance or change of the power supply circuit, the XJ3-D will identify the phase sequence, stop supplying power to the power supply circuit and achieve the goal of protecting the device.

Technical data

Type	500M Ω , 500VDC
Protection function	Overvoltage Undervoltage Phase-failure Phase-sequence error
Overvoltage protection(AC)	380V~460V 1.5s~4s (adjustable)
Undervoltage protection(AC)	300V~380V 2s~9s(adjustable)
Operating voltage	AC 380V 50/60Hz
Contact number	1 group changeover
Contact capacity	Ue/Ie:AC-15 380V/0.47A; Ith:3A
Phase-failure and phase-sequence protection	Reacting time \leq 2s
Electrical life	1×10^5
Mechanical life	1×10^6
Ambient temperature	-5 $^{\circ}$ C~40 $^{\circ}$ C
Installation mode	35mm Track installation or soleplate mounting

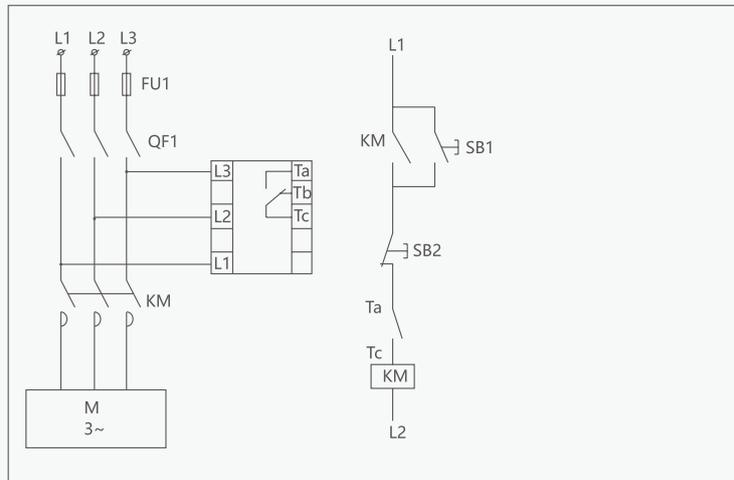
Note: In the example diagram of the application circuit, the protective relay can only provide protection when the phase failure occurs in terminal 1, 2, 3 and among the three phases of power supply A, B and C.

D

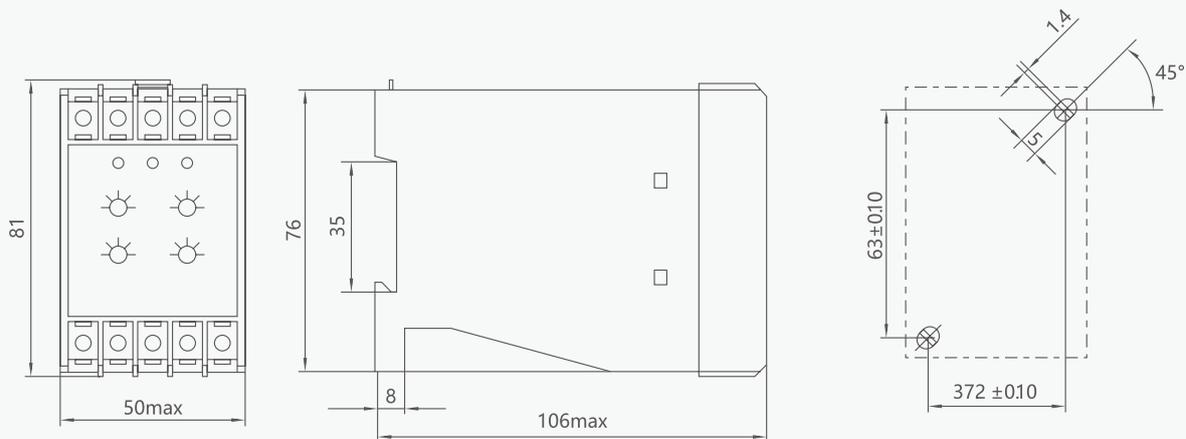
Relay

XJ3-D Protection Relay

Wiring diagram



Overall and mounting dimensions(mm)



Relay

JD-5, JD-6 Motor Integrated Protector



General

JD-5, JD-6 Motor Integrated Protector (hereinafter referred to as protector) is applicable for overload and phase-failure protection of AC motor @ A.C.50Hz, less than AC690V rated insulation voltage and 20A~300A rated operating current for its continuous working or discontinuous working. Protector and AC contactor are generally used cooperatively.

This product meets the requirements of IEC 60947- 4-1.

Operating conditions

1. Ambient temperature Range: $-5^{\circ}\text{C} \sim +40^{\circ}\text{C}$, with daily average $\leq +35^{\circ}\text{C}$.
2. Atmospheric condition: when the highest temperature is $+40^{\circ}\text{C}$, the relative humidity of air shall be no more than 50%, higher relative humidity shall be allowable at lower temperature, for instance air humidity may reach 90% at $+20^{\circ}\text{C}$. As for the dew that appears due to the change of temperature, we should take special measures.
3. Pollution Level: Level 3.
4. Inclination between installation plane vertical plane shall $\leq \pm 5^{\circ}$.
5. In the media without explosive risk, no gases that may be corrosive to metal and no damage insulation in the media together with places where much conducting dust being in existence.
6. At places where rain & snow proof facilities are equipped with and not being full of steam.
7. At places without prominence rock, impact and vibration.
8. Installation Category: III.

Technical data

Rated insulation voltage AC690V, rated frequency 50Hz, rated operating current 0.5A~300A.

Parameter	Model	JD-5	JD-5B (with buzzer)	JD-6
Rated voltage		AC380V 50Hz(Other voltage levels can be customized)		
Setting current range (suitable motor power)		2-100A (1-40KW)	2-100A (1-40KW)	60-400A (30-150KW)
Overload action time (with inverse time limit characteristics)		3-300s (Adjustable)		
Phase failure action time		$\leq 2\text{s}$		
Reset mode		De-energizing reset		
Contact capacity		AC380V 3A		
Display mode		LED Light indication		
Alarm mode		Sound-light alarm		
Mechanical life		10^6		
Electric life		10^5		
Installation mode		Screw		

Relay

JD-5, JD-6 Motor Integrated Protector

Protection features

Operation characteristics under three-phase balanced-load status

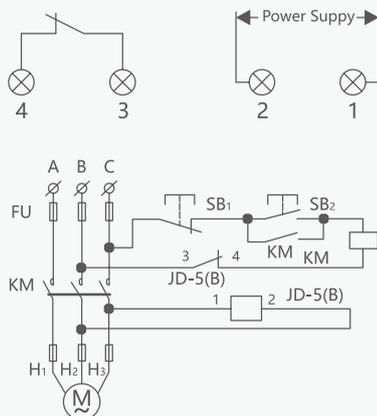
I/In	Operating time	Test condition	Ambient temperature
1.05	<2h non-tripping	Cold status	+20°C
1.20	<2h tripping	Heat status	
1.50	<2 min tripping	Heat status	
7.20	2s<Tp≤10s	Cold status	

Operation characteristic under phase-failure status

Multiple of setting current		Operating time	Test condition	Ambient temperature
Any two phases	The third phases			
1.0	0.9	<2h non-tripping	Cold status	+20°C
1.15	0	≤5s	Heat status	

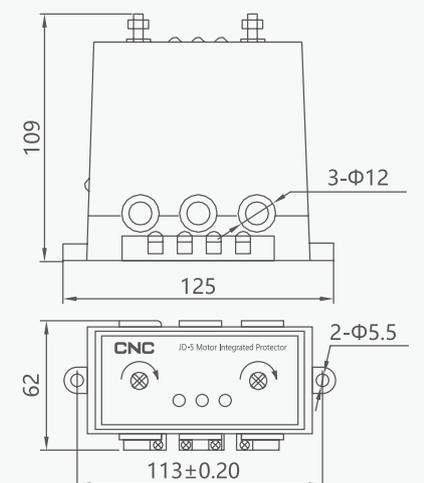
D

Wiring diagram



JD-5, JD-5B, BHQ-S-J, BHQ-S-C(2~100A)

Overall and mounting dimensions(mm)



JD-5(B), BHQ-S-J, BHQ-S-C (2~100A)

JD-8 Motor Integrated Protector



General

JD-8 Motor Integrated Protector is mainly applicable to fault protection of overload and phase failure of low-voltage three-phase AC asynchronous motor in electric power system with AC frequency 50Hz and rated insulation voltage less than 690V. The protector is usually matched with the contactor in AC motor loop circuit for use. It conforms to IEC 60947-4-1 standards.

Operating conditions

1. The altitude shall not exceed 2000m.
2. The ambient air temperature is $-5^{\circ}\text{C}\sim+40^{\circ}\text{C}$ and the average temperature within 24h shall not exceed $+35^{\circ}\text{C}$.
3. Atmospheric condition: Relative humidity of atmosphere shall not exceed 50% at temperature of $+40^{\circ}\text{C}$, and higher relative humidity is allowed at lower temperature. For example, the air humidity can reach 90% at the temperature of $+20^{\circ}\text{C}$. Special measures should be taken for occasional condensation caused by changes in humidity.
4. Class of pollution: Class III
5. Installation category: category III
6. The angle between the installation surface and the vertical surface shall not exceed ± 5 degrees.
7. The place without obvious shake, impact and vibration shall be selected as the installation site.
8. The installation site shall conform to the following standards: explosive and dangerous medium, no gas capable of corroding and damaging insulation in the medium and less conductive dust in the medium.
9. The place with rain-proof and snow-proof equipment and a little water vapor shall be used as the installation site.

Technical data

Main circuit: rated insulation voltage AC690V, rated frequency 50Hz

Model	Range of setting current (A)	Power suitable for motor (kW)
JD-8	0.5~5	0.25~2.5
	2~20	1~10
	20~80	10~40
	64~160	32~80

Auxiliary circuit: rated insulation voltage AC380V, rated frequency 50Hz

Utility Category	AC-15	
Rated operating voltage (V)	220	380
Rated operating current (A)	1.5	0.95
Conventional thermal current (A)	5	

Relay

JD-8 Motor Integrated Protector

Protection features

Structure characteristics

- Three-phase electronic type
- Works for phase failure and overload protection(not suitable for reversible motor)
- Capable of continuously adjusting the set current
- The main circuit adopts pass-through-core type wiring method
- Installation method: installation via screws or rail

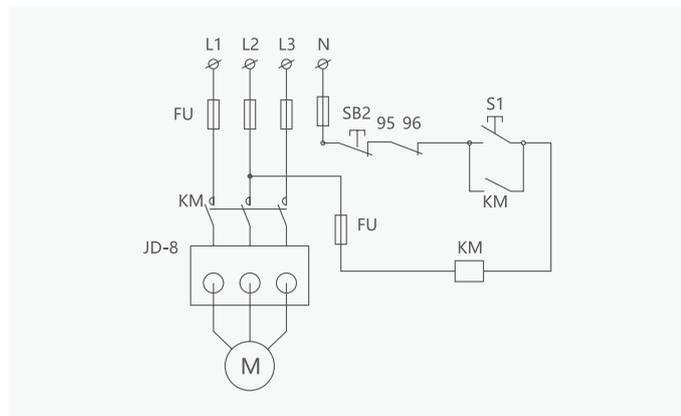
The protector has the following operating characteristics for load balance of each phase; the tripping level is level 30.

Multiple of setting current	Actuation time	Starting condition	Ambient air temperature
1.05	No actuation within 2h	Cold state	Room temperature (20±5)°C
1.2	Actuation within 2h	Heat state (the test is done following sequence 1)	
1.5	Actuation within 12min		
7.2	9s<tp≤30s	5	

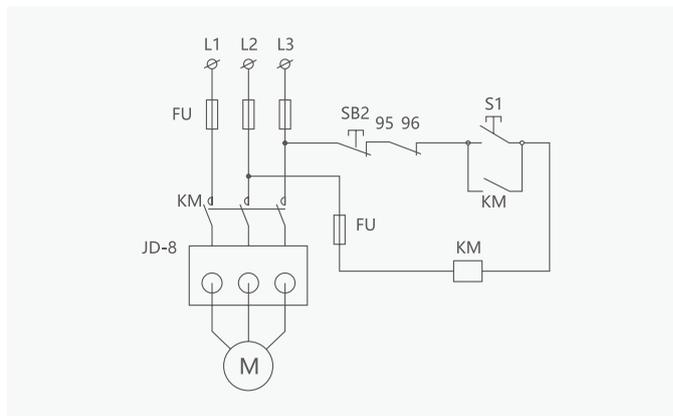
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Wiring diagram

Wiring diagram of control circuit with voltage AC220V

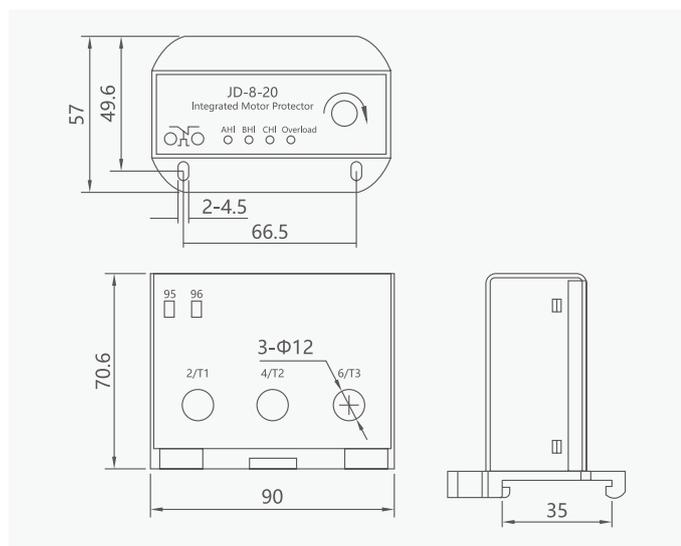


Wiring diagram of control circuit with voltage AC380V

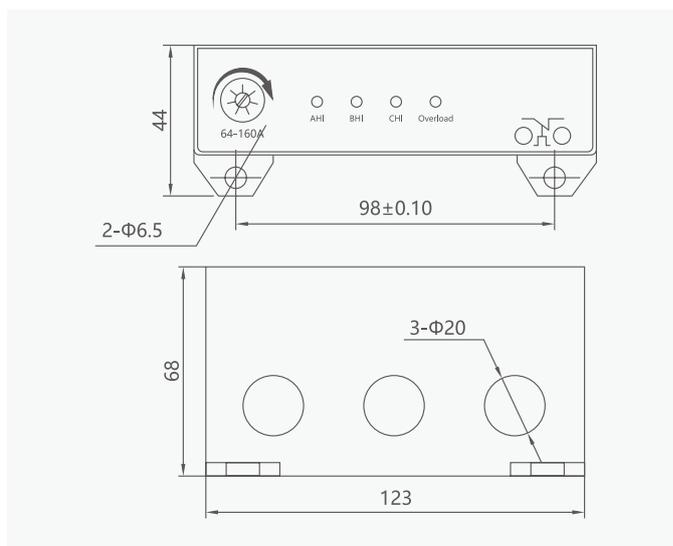


Overall and mounting dimensions(mm)

JD-8-5, JD-8-20, JD-8-80



JD-8-160



Relay

YCV8-(01/02) Voltage Relay



General

Protect electrical equipment and motors from over-voltage and under-voltage.
Normal/emergency power supply switching.

Features

- Controls its own supply voltage(True RMS measurement)
- Users may select operation mode through knob.
- Voltage measurement accuracy<1%.
- Relay status is indicated by LED.
- 1-MODULE.DIN rail mounting.

Type designation

YC V 8 - □ / □

Rated control supply voltage:

Rated supply voltage code	Rated supply voltage	Supply voltage limits	Range of adjustment
D12	DC 12V	DC 7...20V	DC 9...15V
AD48	AC/DC 24...48V	AC/DC 15...100V	AC/DC 20...80V
AD240	AC/DC 110...240V	AC/DC 50...270V	AC/DC 65...260V
A220	AC 220V	AC 160...270V	AC 180...260V

Function mode:

- 01 - Over/under voltage in windows mode
- 02 - Overvoltage Undervoltage

8-Design Sequence Number

V-Voltage Relay

YC-CNC

D

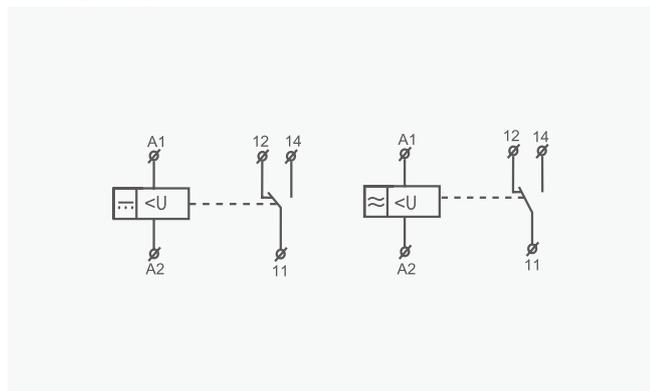
Relay

YCV8-(01/02) Voltage Relay

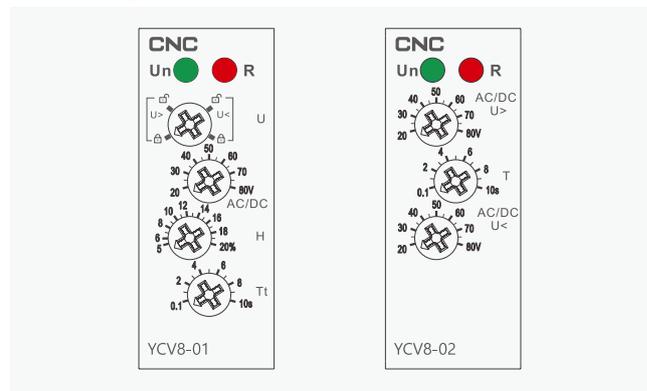
Technical data

Technical parameters	YCV8-01	YCV8-02
Function	Monitoring voltage	
Supply terminals	A1-A2	
Rated supply voltage	DC12V,AC/DC24V-48V,AC/DC110V-240V.AC220V	
Rated supply frequency	45Hz-65Hz,0	
Hysteresis	5%-20% 3%fixed	
Supply indication	green LED	
Time delay	Adjustable 0.1s-10s,10%	
Measurement error	W1%	
Run up delay at power up	0.5s time delay	
Knob setting accuracy	10% of scale value	
Reset time	1000ms	
Temperature coefficient	0.05%/°C,at=20°C(0.05%°F, at=68°F)	
Output	1XSPDT	
Current rating	10A/AC1	
Switching voltage	250VAC/24VDC	
Min.breaking capacity DC	500mW	
Output indication	red LED	
Mechanical life	1X107	
Electrical life(AC1)	1X105	
Operating temperature	-20°C to +55°C (-4°F to 131°F)	
Storage temperature	-35°C to +75°C (-22°F to 158°F)	
Mounting/DIN rail	Din rail EN/IEC 60715	
Protection degree	IP40 for front panel/IP20 terminals	
Operating position	any	
Overvoltage category	III.	
Pollution degree	2	
Max.cable size(mm ²)	solid wiremax.1X2. 5or2X1. 5/with sleeve max.1X2. 5(AWG 12)	
Dimensions	90X18X64mm	
Weight	59g	
Standards	EN 60255-1,IEC60947-5-1	

Wiring diagram



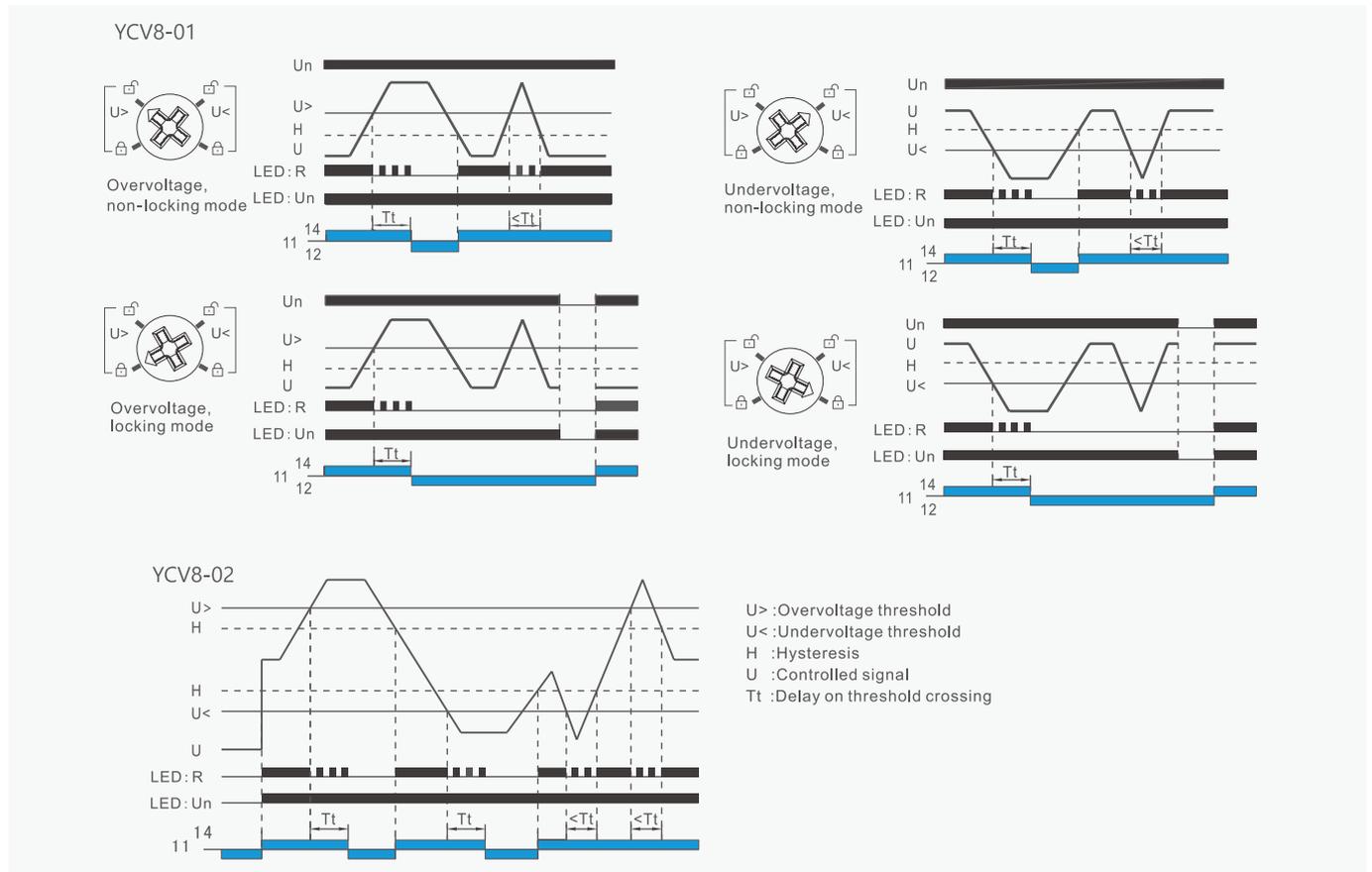
Panel diagram



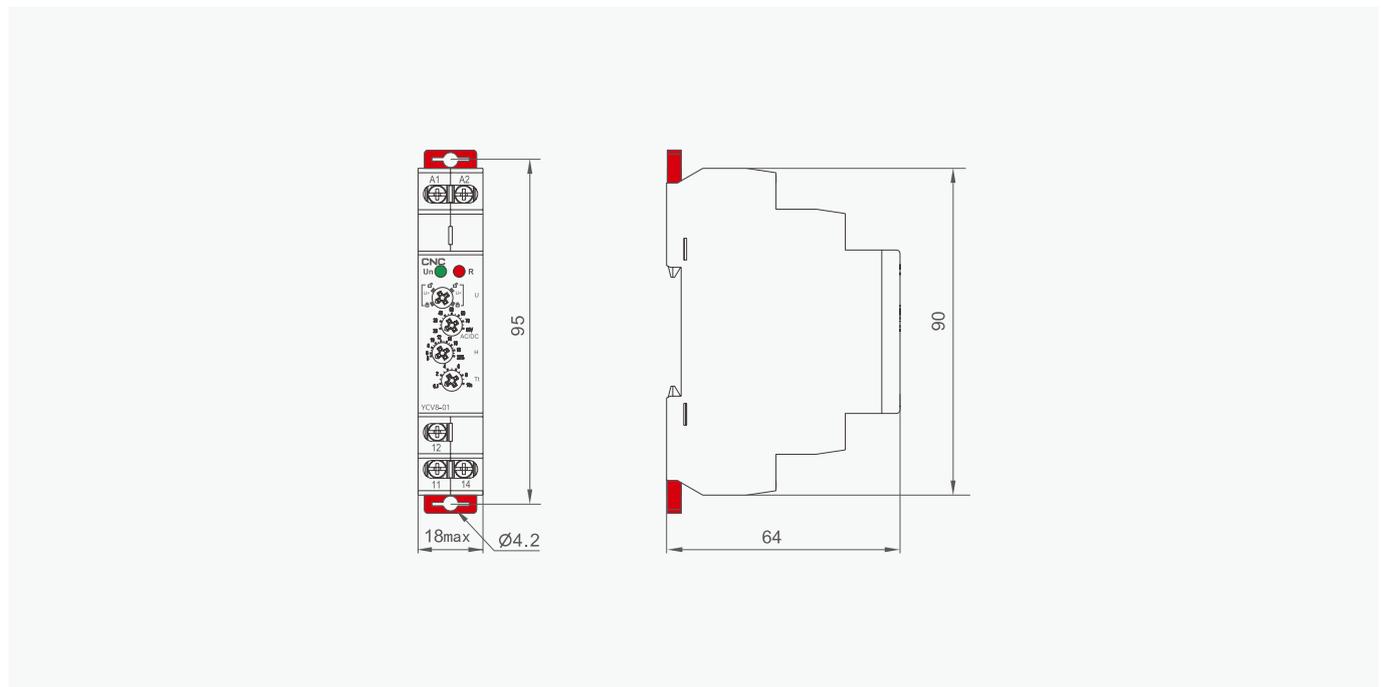
Relay

YCV8-(01/02) Voltage Relay

Functions diagram



Overall and mounting dimensions(mm)



Relay

YCV8-(03/04/05/06/07/08) Voltage Relay



YCV8-03



YCV8-04



YCV8-08

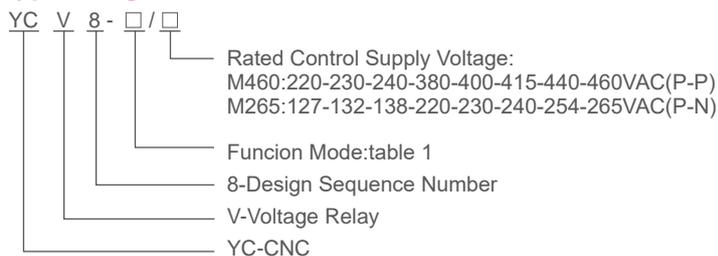
General

- Control for connection of moving equipment(site equipment,agricultural equipment, refrigerated trucks).
- Control for protection of persons and equipment against the consequences of reverse running.
- Normal/emergency power supply switching.
- Protection against the risk of a driving load(phase failure).

Features

- Controls its own supply voltage(True RMS measurement).
- Set 8-level rated operating voltage through knob.
- Measuring frequency range:45Hz-65Hz.
- Voltage measurement accuracy<1%.
- Relay status is indicated by LED.
- 1-MODULE.DIN rail mounting.

Type designation



Function code	Overvoltage	Undervoltage	Asymmetry	Delay time	Phase squence	Phase failure
03					•	•
04	2%...20%	-20%...2%		0.1s...10s	•	•
05	2%...20%	-20%...2%	8%	0.1s...10s	•	•
06	2%...20%	-20%...2%	5%...15%	2s	•	•
07			8%	2s	•	•
08	15%	-15%	8%	2s	•	•

Note:the function is available

Relay

YCV8-(03/04/05/06/07/08) Voltage Relay

Technical data

Technical parameters	YCV8-01	YCV8-02
Function	Monitoring 3-phase voltage	
Monitoring terminals	L1-L2-L3	L1-L2-L3-N
Supply terminals	L1-L2	L1-N
Voltage range	220-230-240-380-400-415-440-460(P-P)	127-132-138-220-230-240-254-265(P-N)
Rated supply frequency	45Hz-65Hz	
Measuring range	176V-552V	101V-318V
Threshold adjustment voltage	2%-20%of Un selected	
Adjustment of asymmetry threshold	5%-15%	
Hysteresis	2%	
Supply indication	green LED	
Time delay	Adjustable 0.1s-10s,10%	
Measurement error	<1%	
Run up delay on power-up	0.5s time delay	
Knob setting accuracy	10% of scale value	
Reset time	1000ms	
Temperature coefficient	0.05%/°C,at=20°C(0.05%°F, at=68°F)	
Output	1XSPDT	
Current rating	10A/AC1	
Switching voltage	250VAC/24VDC	
Min.breaking capacity DC	500mW	
Output indication	red LED	
Mechanical life	1X10 ⁷	
Electrical life(AC1)	1X10 ⁵	
Operating temperature	-20°C to +55°C (-4°F to 131°F)	
Storage temperature	-35°C to +75°C (-22°F to 158°F)	
Mounting/DIN rail	Din rail EN/IEC 60715	
Protection degree	IP40 for front panel/IP20 terminals	
Operating position	any	
Overvoltage category	III.	
Pollution degree	2	
Max.cable size(mn?)	solid wiremax.1X2. 5or2X1.5/with sleeve max.1X2. 5(AWG 12)	
Dimensions	90X18X64mm	
Weight	64g	
Standards	EN 60255-1,IEC60947-5-1	

Note:

$$Asy = \frac{U_{max} - U_{min}}{U_{arv}} \times 100\% \quad U_{max} = \text{Max}(U_1, U_2, U_3)$$

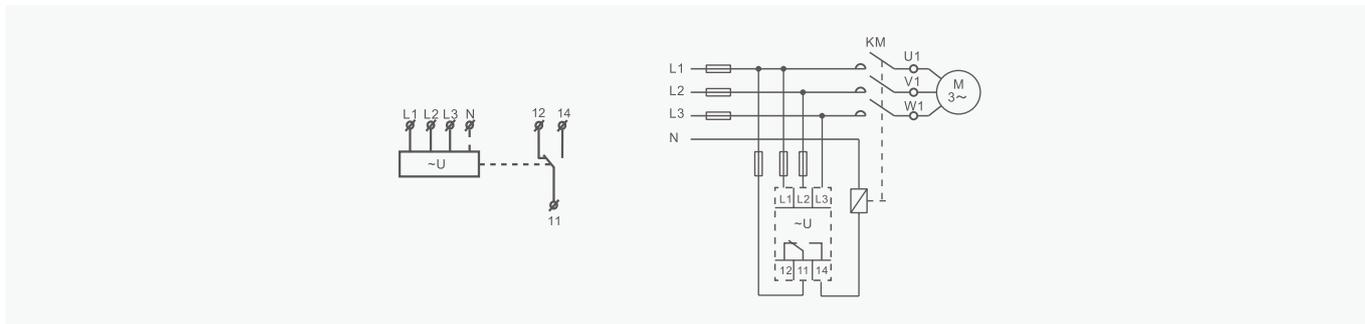
$$U_{arv} = \frac{U_1 + U_2 + U_3}{3} \quad U_{min} = \text{Min}(U_1, U_2, U_3)$$

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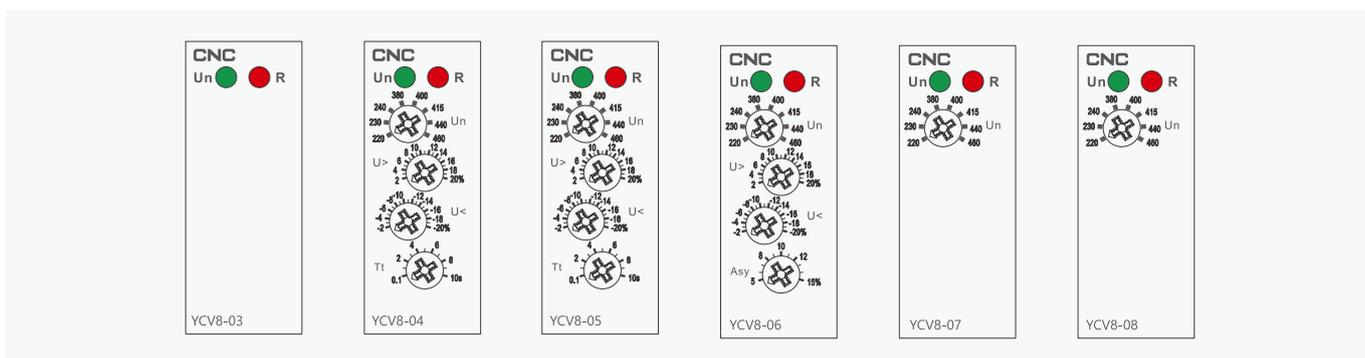
Relay

YCV8-(03/04/05/06/07/08) Voltage Relay

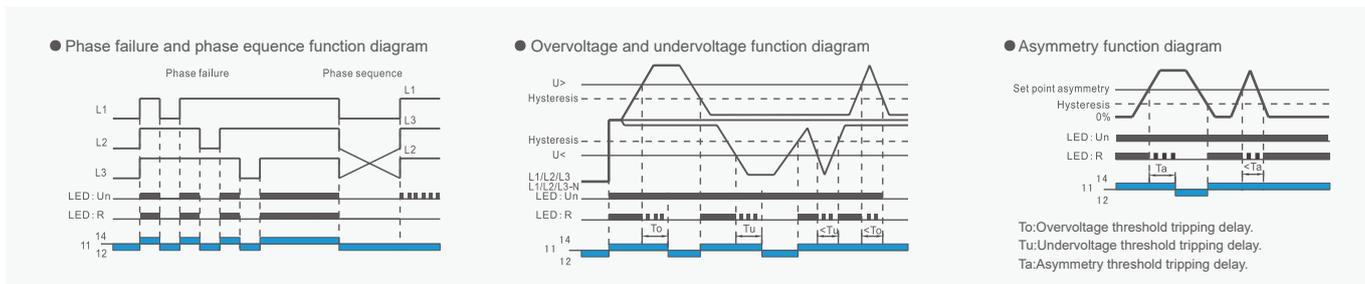
Wiring diagram



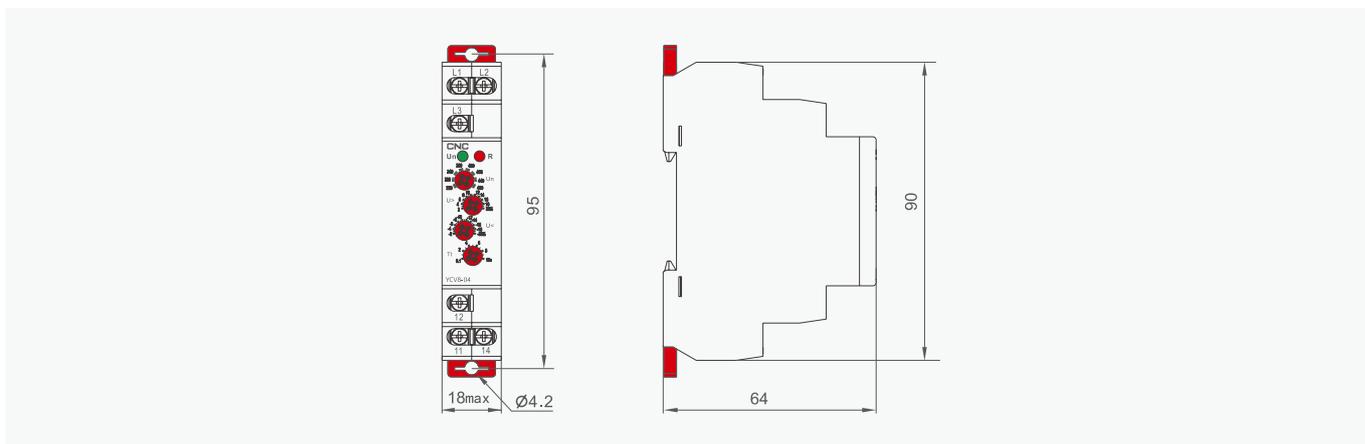
Panel diagram



Functions diagram



Overall and mounting dimensions(mm)



Relay

YCV8-(03D/04D/05D/06D/07D/08D) Voltage Relay



YCV8-03D



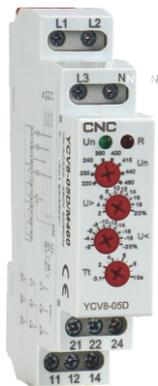
YCV8-05D



YCV8-07D



YCV8-03D



YCV8-05D



YCV8-07D

General

- Control for connection of moving equipment(siteequipment,agricultural equipment, refrigerated trucks).
- Control for protection of persons and equipment against the consequences of reverse running.
- Normal/emergency power supply switching.
- Protection against the risk of a driving load(phase failure).

Features

- Controls its own supply voltage(True RMS measurement).
- Set 8-level rated operating voltage through knob.
- Measuring frequency range:45Hz-65Hz.
- Voltage measurement accuracy<1%.
- 2 C/O output.
- Relay status is indicated by LED.
- 1-MODULE,DIN rail mounting.

Type designation

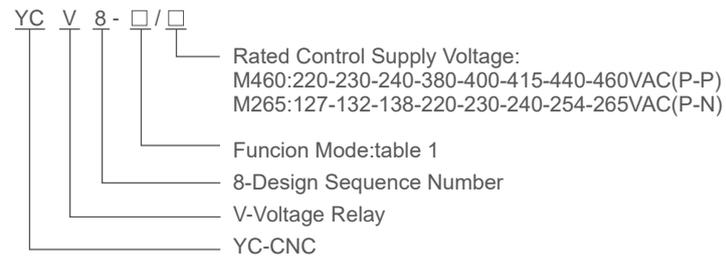


Table 1

Function code	Overvoltage	Undervoltage	Asymmetry	Delay time	Phase squence	Phase failure
03D					•	•
04D	2%...20%	-20%...2%		0.1s...10s	•	•
05D	2%...20%	-20%...2%	8%	0.1s...10s	•	•
06D	2%...20%	-20%...2%	5%...15%	2s	•	•
07D			8%	2s	•	•
08D	15%	-15%	8%	2s	•	•

Note:the function is available



Relay

YCV8-(03D/04D/05D/06D/07D/08D) Voltage Relay

Technical data

Technical parameters	M460	M265
Function	Monitoring 3-phase voltage	
Monitoring terminals	L1-L2-L3	L1-L2-L3-N
Supply terminals	L1-L2	L1-N
Voltage range	220-230-240-380-400-415-440-460(P-P)	127-132-138-220-230-240-254-265(P-N)
Rated supply frequency	45Hz-65Hz	
Measuring range	176V-552V	101V-318V
Threshold adjustment voltage	2%-20%of Un selected	
Adjustment of asymmetry threshold	5%-15%	
Hysteresis	2%	
Supply indication	green LED	
Time delay	Adjustable 0.1s-10s,10%	
Measurement error	<1%	
Run up delay on power-up	0.5s time delay	
Knob setting accuracy	10% of scale value	
Reset time	1000ms	
Temperature coefficient	0.05%/°C,at=20°C(0.05%°F, at=68°F)	
Output	1XSPDT	
Current rating	10A/AC1	
Switching voltage	250VAC/24VDC	
Min.breaking capacity DC	500mW	
Output indication	red LED	
Mechanical life	1X10 ⁷	
Electrical life(AC1)	1X10 ⁵	
Operating temperature	-20°C to +55°C (-4°F to131°F)	
Storage temperature	-35°C to +75°C (-22°F to 158°F)	
Mounting/DIN rail	Din rail EN/IEC 60715	
Protection degree	IP40 for front panel/IP20 terminals	
Operating position	any	
Overvoltage category	III.	
Pollution degree	2	
Max.cable size(mn?)	solid wiremax.1X2. 5or2X1.5/with sleeve max.1X2. 5(AWG 12)	
Dimensions	90X18X64mm	
Weight	64g	
Standards	EN 60255-1,IEC60947-5-1	

Note:

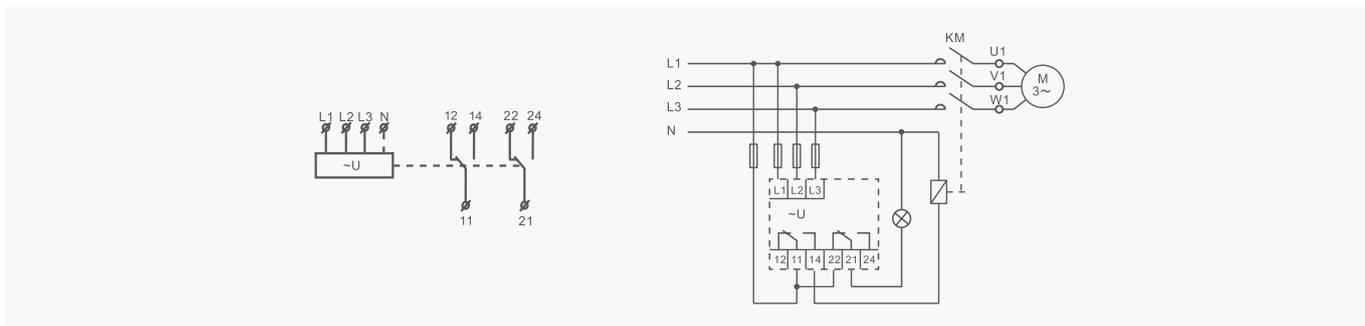
$$Asy = \frac{U_{max} - U_{min}}{U_{arv}} \times 100\% \quad U_{max} = \text{Max}(U_1, U_2, U_3)$$

$$U_{arv} = \frac{U_1 + U_2 + U_3}{3} \quad U_{min} = \text{Min}(U_1, U_2, U_3)$$

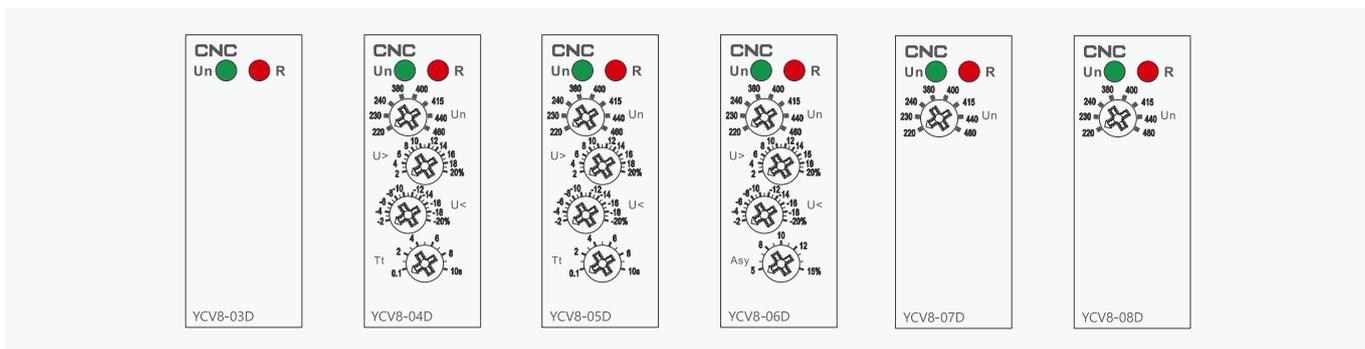
Relay

YCV8-(03D/04D/05D/06D/07D/08D) Voltage Relay

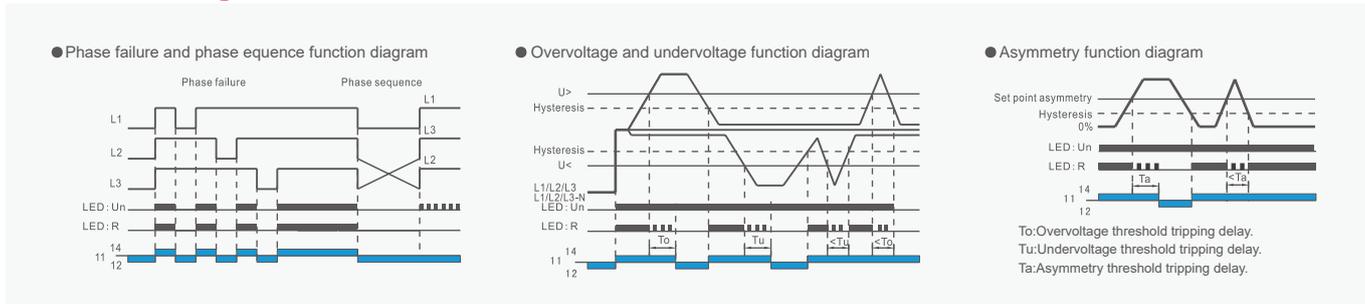
Wiring diagram



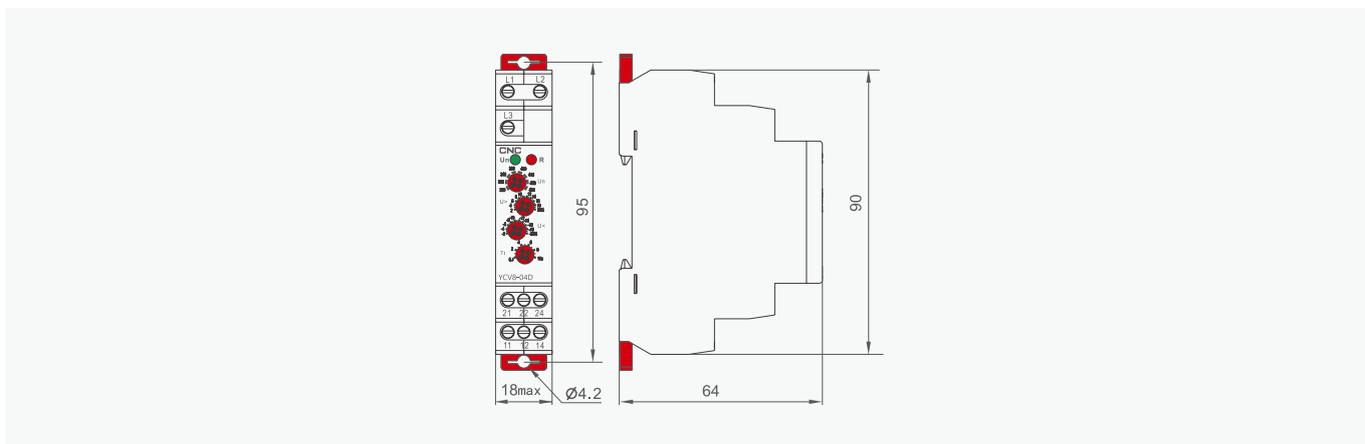
Panel diagram



Functions diagram



Overall and mounting dimensions(mm)



Relay

YCV8-(09/10) Voltage Relay



YCV8-09



YCV8-10

General

- Control for connection of moving equipment (site equipment, agricultural equipment, refrigerated trucks).
- Control for protection of persons and equipment against the consequences of reverse running.
- Normal/emergency power supply switching.
- Protection against the risk of a driving load(phase failure).

Features

- Controls its own supply voltage(True RMS measurement).
- Set 8-level rated operating voltage through knob.
- Set the reset delay time through the knob.
- 2 C/O output.
- Measuring frequency range:45Hz-65Hz.
- Voltage measurement accuracy<1 %.
- Relay status is indicated by LED.
- 2-MODULE,DIN rail mounting.

Type designation

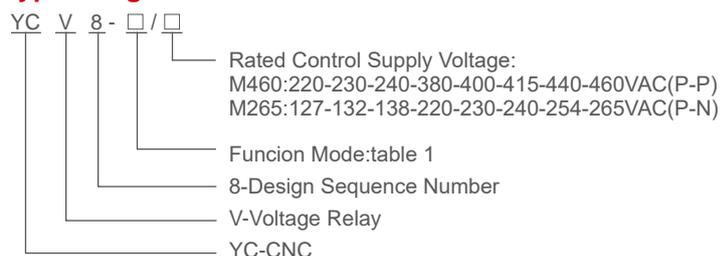


Table 1

Function code	Overtoltage	Undervolt- age	Asymmetry	Delay time	Phase squence	Phase failure	Reset time
07			8%	2s	•	•	•
08	2%...20%	-20%...2%	5%...15%	0.1s...10s	•	•	0.1s...10s

Note:the function is available

Relay

YCV8-(09/10) Voltage Relay

Technical data

Technical parameters	M460	M265
Function	Monitoring 3-phase voltage	
Monitoring terminals	L1-L2-L3	L1-L2-L3-N
Supply terminals	L1-L2	L1-N
Voltage range	220-230-240-380-400-415-440-460(P-P)	127-132-138-220-230-240-254-265(P-N)
Rated supply frequency	45Hz-65Hz	
Measuring range	176V-552V	101V-318V
Threshold adjustment voltage	2%-20%of Un selected	
Adjustment of asymmetry threshold	5%-15%	
Hysteresis	2%	
Supply indication	green LED	
Time delay	Adjustable 0.1s-10s,10%	
Measurement error	<1%	
Run up delay on power-up	0.5s time delay	
Knob setting accuracy	10% of scale value	
Reset time	1000ms	
Temperature coefficient	0.05%/°C,at=20°C(0.05%°F, at=68°F)	
Output	1XSPDT	
Current rating	10A/AC1	
Switching voltage	250VAC/24VDC	
Min.breaking capacity DC	500mW	
Output indication	red LED	
Mechanical life	1X10 ⁷	
Electrical life(AC1)	1X10 ⁵	
Operating temperature	-20°C to +55°C (-4°F to131°F)	
Storage temperature	-35°C to +75°C (-22°F to 158°F)	
Mounting/DIN rail	Din rail EN/IEC 60715	
Protection degree	IP40 for front panel/IP20 terminals	
Operating position	any	
Overvoltage category	III.	
Pollution degree	2	
Max.cable size(mn?)	solid wiremax.1X2. 5or2X1.5/with sleeve max.1X2. 5(AWG 12)	
Dimensions	90X18X64mm	
Weight	64g	
Standards	EN 60255-1,IEC60947-5-1	

Note:

$$Asy = \frac{U_{max} - U_{min}}{U_{arv}} \times 100\% \quad U_{max} = \text{Max}(U_1, U_2, U_3)$$

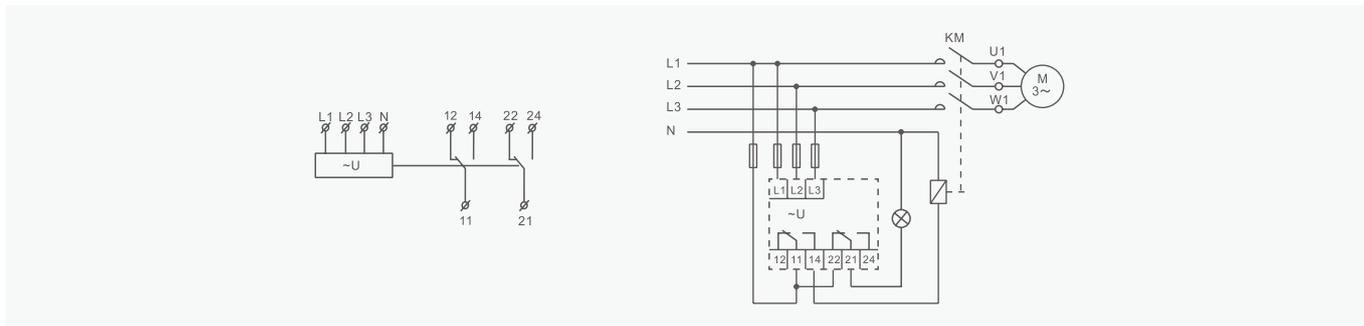
$$U_{arv} = \frac{U_1 + U_2 + U_3}{3} \quad U_{min} = \text{Min}(U_1, U_2, U_3)$$

D

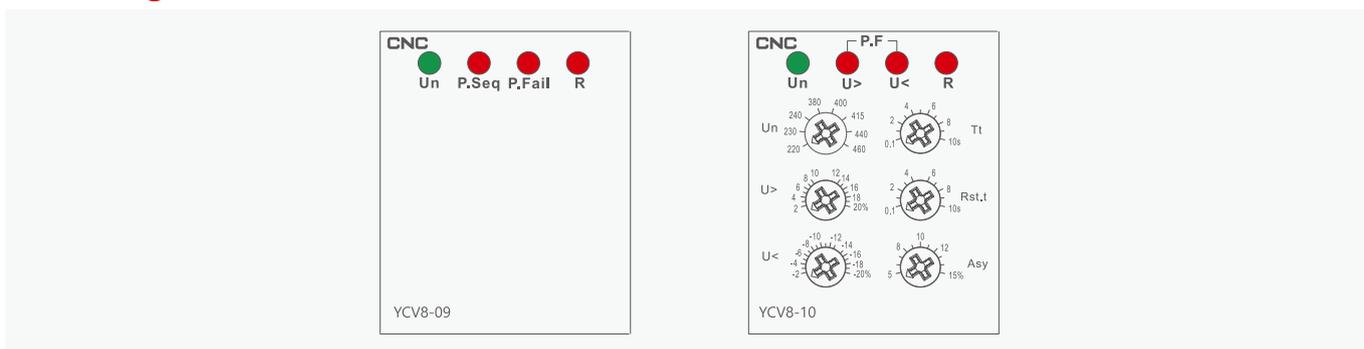
Relay

YCV8-(09/10) Voltage Relay

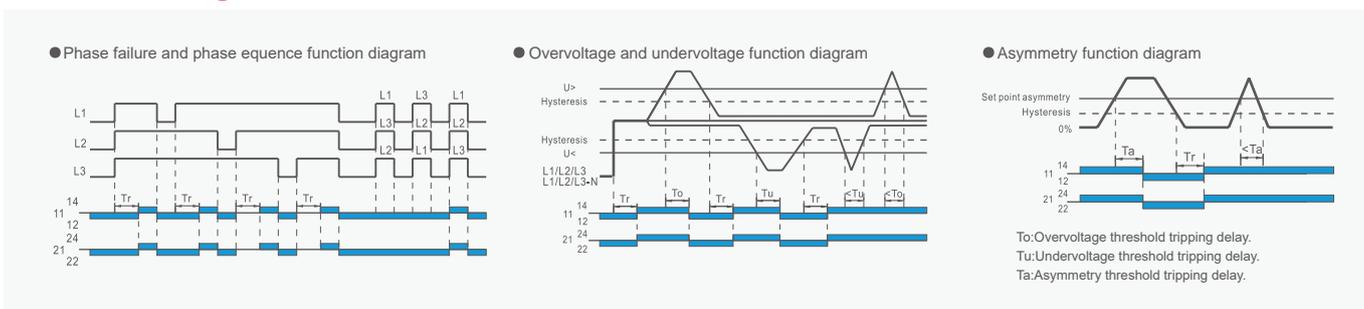
Wiring diagram



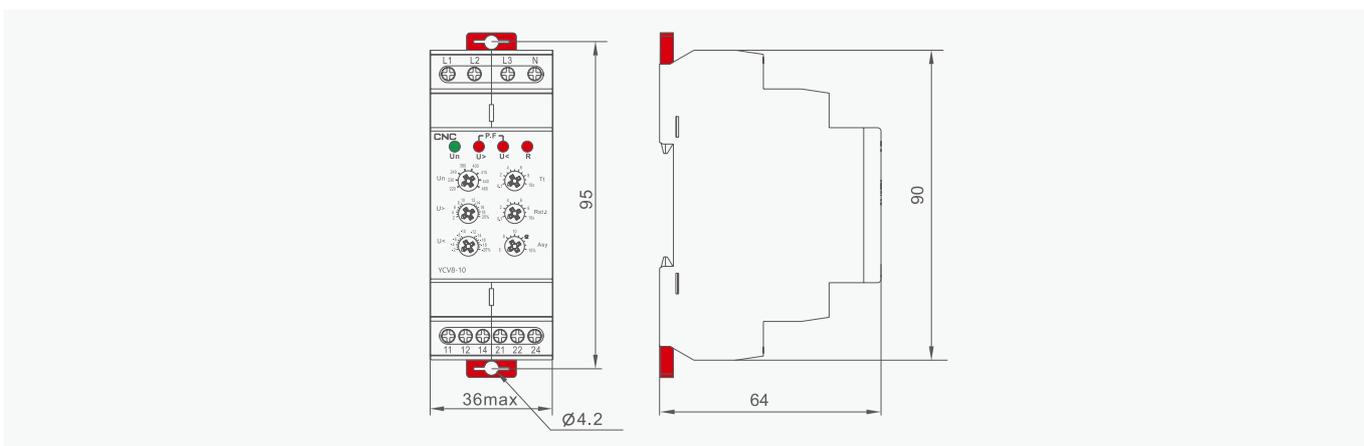
Panel diagram



Functions diagram

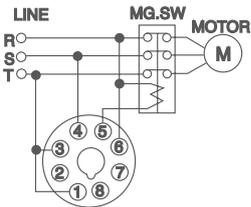
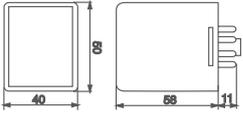
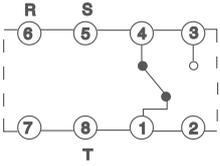
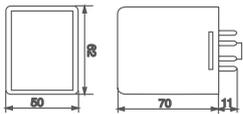
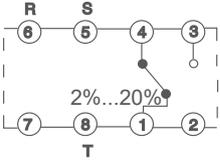
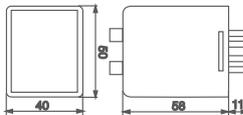


Overall and mounting dimensions(mm)



Relay

Motor Protection Relay

		Voltage	AC220,380V,415V 50/60Hz	Dimensional drawing
 <p>APR-3</p>  <p>PF083A</p>  <p>PF083A-E</p>		Functions	Protection of three-phase induction motor reverse relay 380V power supply with surge absorber and high voltage protection	
		Ambient temperature	-10°C to 55 °C	
		Ambient humidity	48 to 85%RH	
		Voltage	AC220,380V,415V 50/60Hz	Dimensional drawing
 <p>JVM-1</p>  <p>PF083A</p>  <p>PF083A-E</p>		Functions	Protection of three-phase induction motor reverse relay 380V power supply with surge absorber and high voltage protection	
		Ambient temperature	-10°C to 55 °C	
		Ambient humidity	48 to 85%RH	
		Voltage	AC220,380V,415V 50/60Hz	Dimensional drawing
 <p>JVM-2</p>  <p>PF083A</p>  <p>PF083A-E</p>		Functions	Protection of three-phase induction motor reverse relay 380V power supply with surge absorber and high voltage protection	
		Ambient temperature	-10°C to 55 °C	
		Ambient humidity	-10°C to 55 °C	

D

Relay

TRM Series Digital Overload Automatic Reset Relay



General

The TRM series digital overload automatic reset relay features overload protection. This product is easy to install, operates stably, is energy-efficient, provides timely and fast control, suitable for various environments, and exhibits stable performance with sensitive responsiveness.

Type designation

Product name	Current	Rated voltage
TRM	100	220
TRM	03 0.1-3A 12 3-12A 25 0.1-25A 50 15-50A 100 40-100A 200 90-200A 300 190-300A 400 290-400A	110 AC 110V 50/60Hz 220 AC 150-260V 50/60Hz

Operating conditions

1. Ambient temperature: -20°C~+55°C
2. Relative humidity: ≤20% at 40°C; ≤90% at 20°C
3. Altitude: ≤2000m
4. Environmental conditions: no harmful gases and vapors, no conductive or explosive dust, no severe mechanical vibration

Technical data

Function

Protective Item	Operating (Trip) time
Overload	<t>time setting
Asymmetry	2sec.Fixed (ExceptTRM-400)

Set

Classification	Set Knob	Set up
Delay Trip	T	Overload run time.
Rated Current	A>	Set over 105% of the motor's rated current of under 110% of its operating current

LED Indication

Condition	ERR(Red)	OUT(Red)	Remarks
Power	X	O	O:ON X:OFF
Normal Running	X	O	
Trip	O	X	

※ Err Led: Error indication.

☞ Led: Manual reset indication.

⌚ Led: 3 times limited auto-reset indication.

⌚ Led: Auto-reset indication.

OUT Led: Relay output Indication

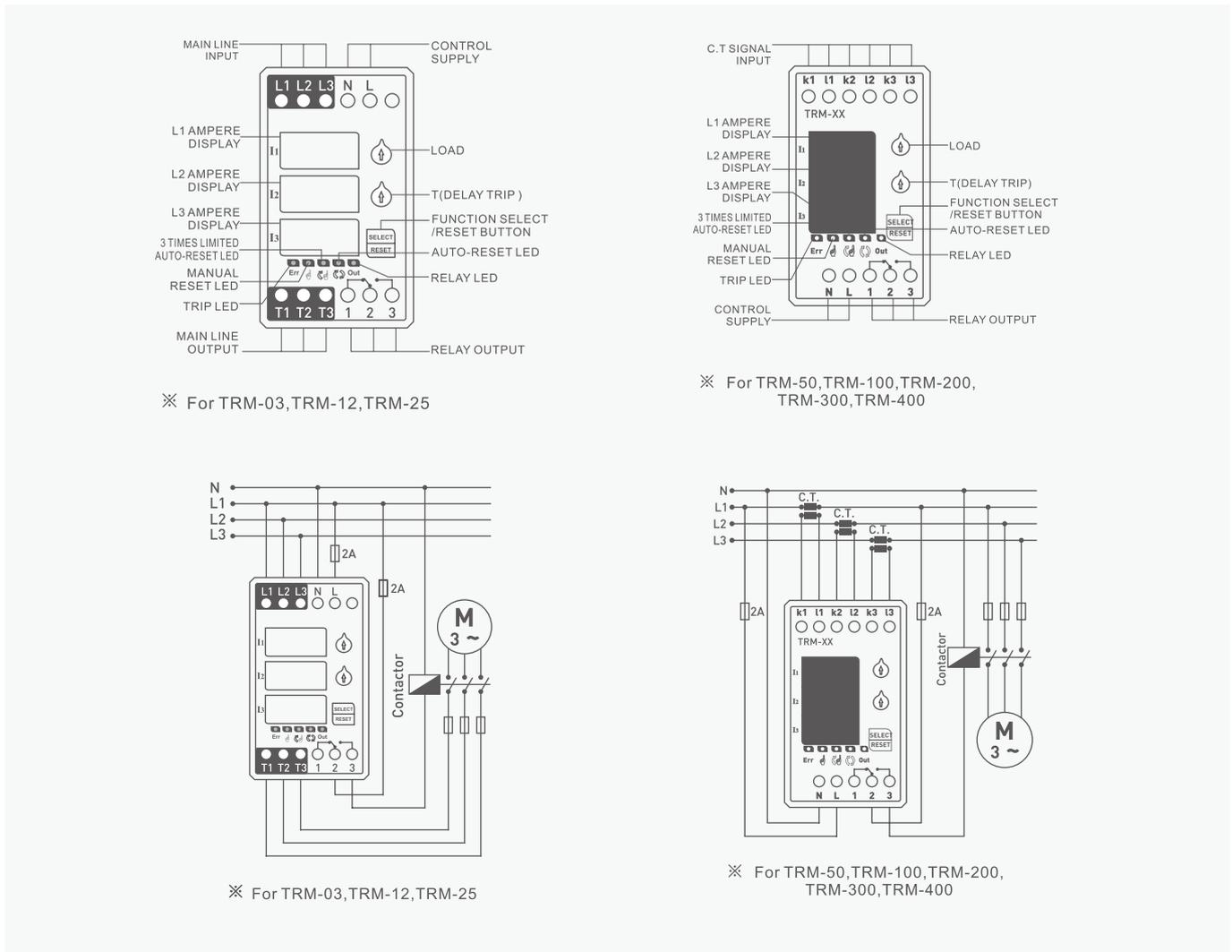
Relay

TRM Series Digital Overload Automatic Reset Relay

TIME	Delay Trip	T	0.1~20 sec(TRM03~100);1~200sec(TRM200~300)
Reset			Manual/Auto reset
Indicator			Digital
Accuracy	Current		±1%
	Time		±1%
Control Voltage	Voltage Range	110	AC110V
		220	AC 150~260V
	Frequency		50/60Hz
Output	Contact		1-SPDT(1c)
	Condition		When normal running 2 3 close,1 2 open
			When Trip 2 3 open,1 2 close
	Contacts		5A/ 250VAC Resistive
Temperature			-20~+55°C
Mounting			35mm DIN-Rail
Weight			<290gr.(TRM-03~25);<350gr.(TRM-50); <500gr.(TRM-100~200);<1210gr.(TRM-300~400)



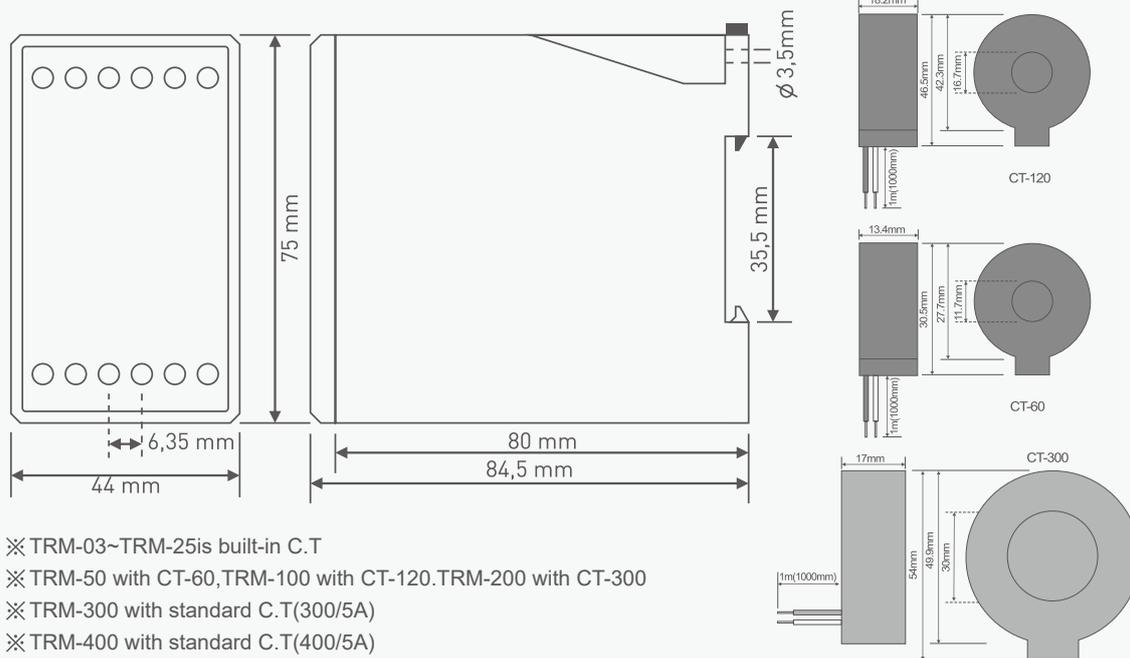
Product function equivalence diagram



Relay

TRM Series Digital Overload Automatic Reset Relay

Overall and mounting dimensions(mm)



D

Relay

KG316T Time Relay



KG316T

General

KG316T Time Switch is the control element with time as control unit and can automatically turn on or turn off power supply of various consumer equipments according to the preset time by the user.

The controlled objects are circuit equipments and household appliances such as street lamps, neon lamps, advertising lamps, manufacturing equipments, broadcast & television equipments, etc., which requires to be turned on and off at a definite time.

Type designation



Technical data

Rated insulation voltage U_i : AC380V

Rated control voltage: AC110V, AC220V, AC380V

Usage category: U_e : AC110V/AC220V/AC380V; I_e : 6.5 A / 3 A / 1.9 A; I_{th} : 10 a; AC-15

Protection degree: IP20

Pollution degree: 3

Load power: resistive load: 6kW; Inductive load: 1.8KW; Motor load: 1.2KW; Lamp load: 0.9KW

Operating mode	Time automatic control
Rated operating current	AC-15 3A
Rated operating voltage	AC220V 50Hz/60Hz
Electrical life	≥ 10000
Mechanical life	≥ 30000
Times of ON/OFF	16 opens & 16 closes
Battery	AA size battery (replaceable)
Timing error	$\leq 2s/day$
Ambient temperature	$-5^{\circ}C \sim +40^{\circ}C$
Installation mode	Guide rail type, wall-mounted type, unit style
External dimension	120x77x53

D

Relay

KG316T Time Relay

Wiring diagram

Wiring for direct control mode:

direct control mode can be used for electrical apparatus which is single-phase power supply and its power consumption doesn't exceed rated value of this switch. See Figure 1 for wiring method;

Wiring for single-phase dilatancy mode:

it is required for a AC contactor with larger capacity than electrical apparatus power consumption for dilatancy when the controlled electric al apparatus is single-phase power supply, whereas its power consumption exceeds rated value of this switch.

See Figure 2 for wiring method;

wiring for three-phase operation mode:

if the controlled electrical apparatus is three-phase power supply, it is required to externally to connect three-phase AC contactor.

See Figure 3 for wiring, control contactor @ AC220V coil voltage, 50Hz;

See Figure 4 for wiring, control contactor @ AC 380V coil voltage, 50Hz.

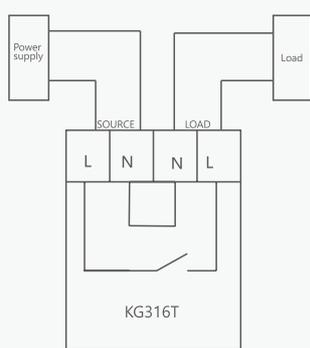


Figure 1

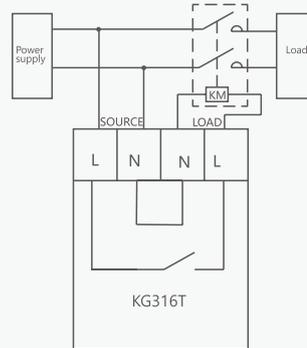


Figure 2

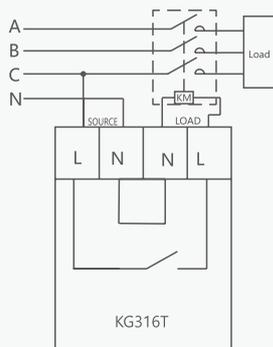


Figure 3

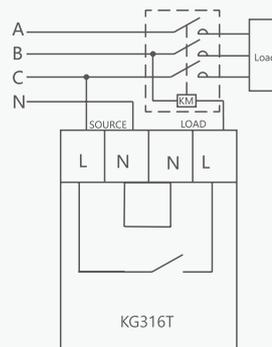
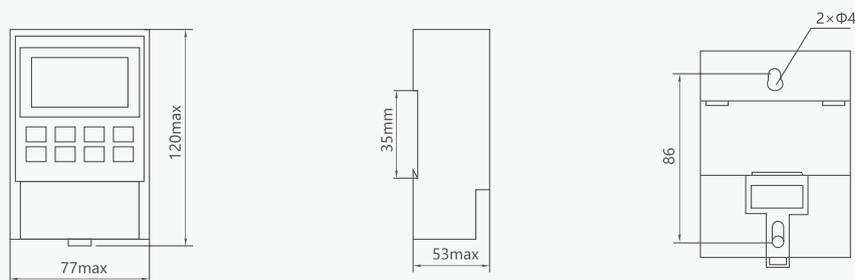


Figure 4

Overall and mounting dimensions(mm)



Relay

YCKG7 Series Time Control Switch



YCKG7



YCKG7-M

General

The YCKG7 series time control switch is suitable for AC 50Hz, rated control power supply voltage to AC380V control circuit, as a delay timing component. It can connect or disconnect the power supply of various control circuits according to the predetermined time, suitable for street lights, neon lights, advertising signs, radio and television equipment, and various household appliances.

Standard: IEC 60947-4-1

Type designation

Model	Usage	Rated control power supply voltage
YCKG7	/	AC220V
Microcomputer time control switch	/: Civil rail type M :Modular type	AC220V AC380V



Features

1. Easy to set up and use
2. Anti-mis-touch function to prevent mis-touch operation
3. 16 groups of switches can be set, with manual/automatic on or off
4. Rubber buttons to enhance user experience
5. Smaller appearance and volume compared to conventional time control switches
6. Equipped with a detachable battery, the program is automatically saved after setting, and there is no need to set it again after a power outage

Relay

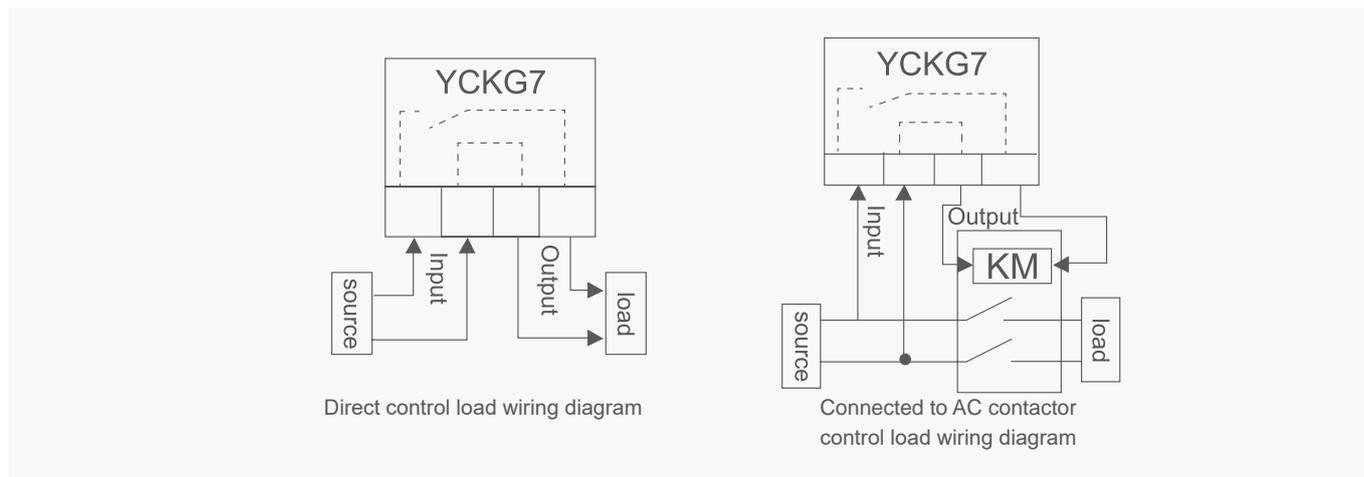
YCKG7 Series Time Control Switch

Technical data

Rated insulation voltage U_i	AC380
Rated impulse withstand voltage U_{imp}	2.5kV
Rated control power supply voltage U_s	AC50/60Hz220V 380V
Power consumption	5W
Pollution level	3
Protection degrees of the frame	Protection degrees of the frame
Load power	Under AC-12 use category, 20A AC250V (resistive)
Timing times	16 groups, both automatic and manual
Switching time	Day cycle or weekly cycle
Time control range	1min~168hour
Mechanical life	1 million times
Electrical life	100,000 times
Altitude	2000m
Temperature	Rated control power supply voltage variation range is 85%-110%
Environment	In a medium without severe vibration and explosion hazards, and without gases and dust that are sufficient to corrode metals and damage insulation; In places where rain and snow cannot reach.

Note: Coordination with Short Circuit Protectors (SCPDs) means that relays should not cause harm to people or equipment under short circuit conditions, and should not be allowed to continue using them until they have been repaired or replaced with parts.

Wiring diagram



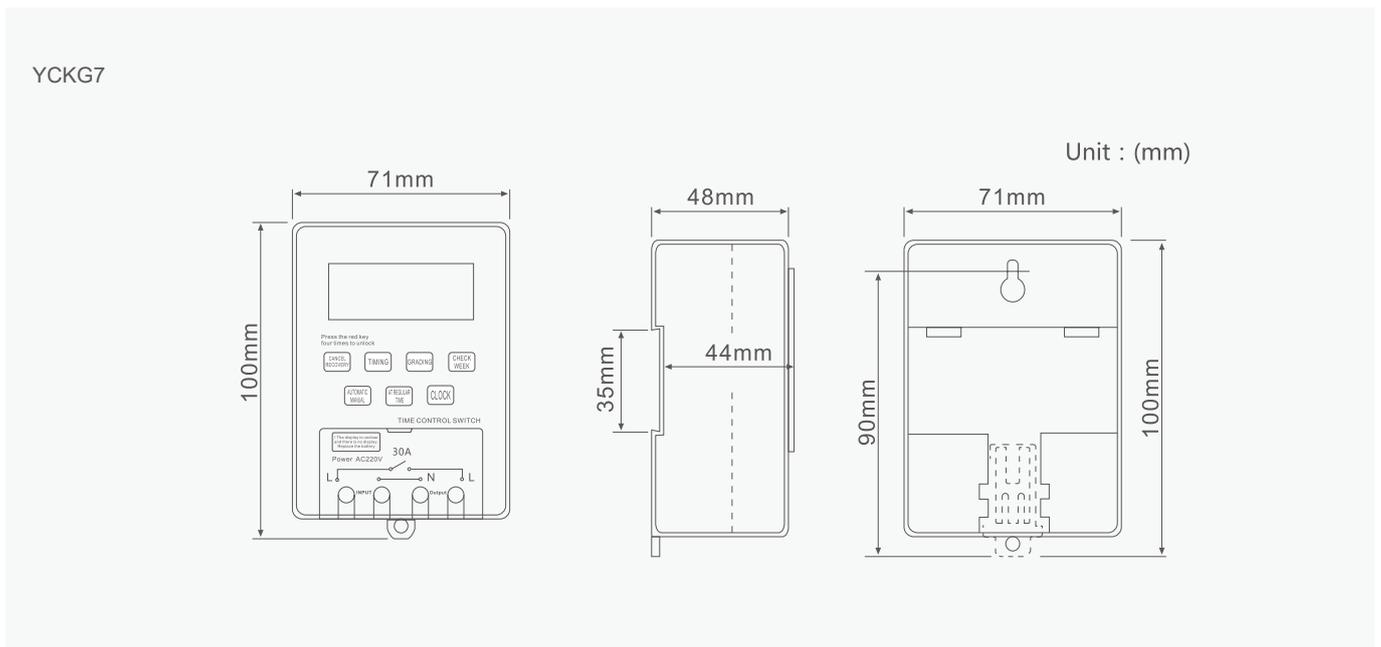
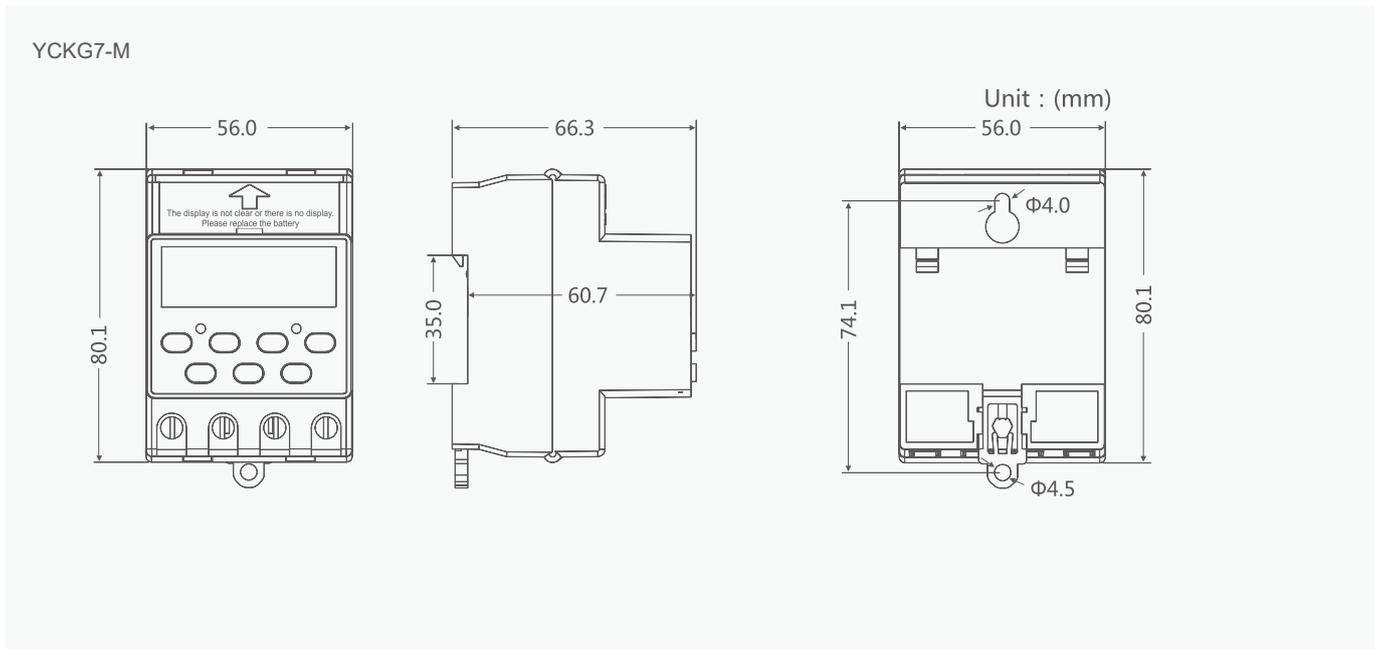
Note: The controlled load is single-phase power supply, and the working current does not exceed the rated value of the machine. Direct control can be used, and the wiring method is shown in Figure 2.

Note: The controlled load is single-phase power supply, and if the working current exceeds the rated value of the machine, please use the AC contactor coil voltage (Ac220V) expansion method. The wiring method is shown in Figure 3. The contactor expansion control method and wiring method are shown in Figure 3.

Relay

YCKG7 Series Time Control Switch

Overall and mounting dimensions(mm)



Relay

TP8A16 Time Relay



(transparency cover)

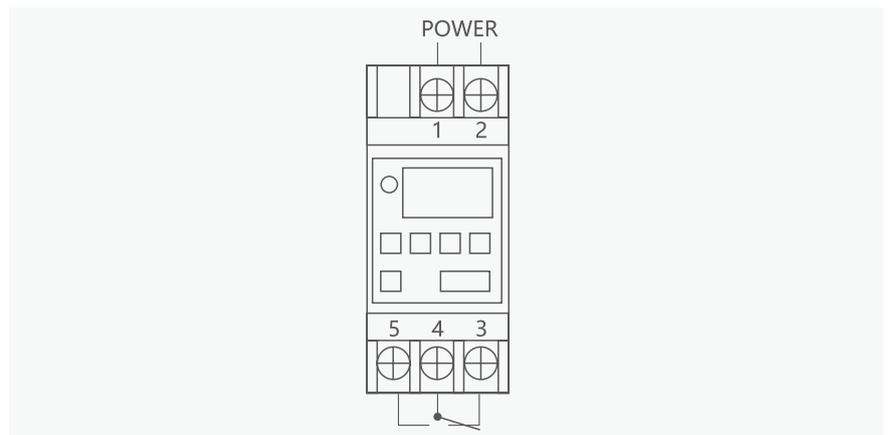


general cover

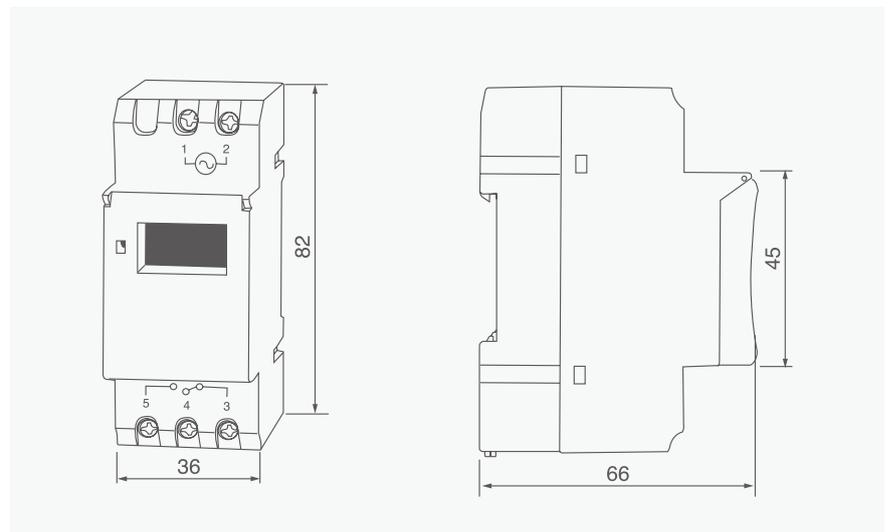
Technical data

Item No.	TP8A16
Operating Voltage	AC 220V±15% 50Hz/60Hz
Power Consumption	4.5VA
Ambient Temperature	-10~+50°C
Accuracy	≤2s/day 25°C
Minimum Setting Unit	1 Min
Time Setting Range	1 Min~168 hours
Contact Capacity	Lamp Load: 1000W
	Resistive load: 16A/250VAC (cosΦ=1)
	Inductive load: 3A/250VAC (cosΦ=0.6)
Working Reserve Time	48 hour charged can last 15 days
Dimension	81×36×66mm
Weight	125g
Mounting	DIN rail mounting

Wiring diagram



Overall and mounting dimensions(mm)



Relay

SUL181h Time Relay



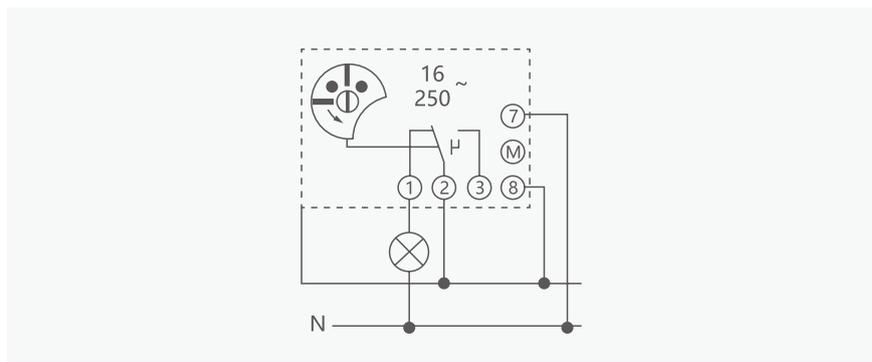
SUL181h

Technical data

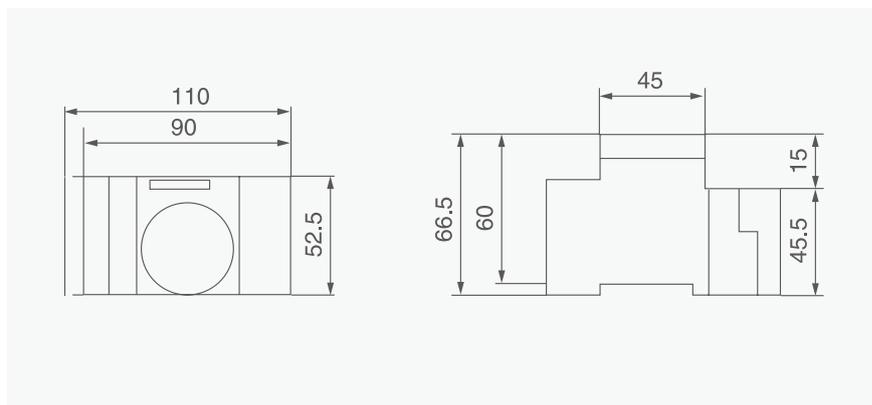
Item No.	SUL181h	SUL161h
Operating Voltage	AC 24-250V 50-60Hz	AC 220V±15% 50Hz/60Hz
Power Consumption	0.5VA	4.5VA
Contact Capacity	AC 220V 16A	-10~+50°C
Contact Resistance	≤50mΩ	≤2s/day 25°C
Inaulation Resistance	≥100MΩ	1 Min
Operating Temperature	-40°C~+55°C	
Operating Temperature	≤2S/day 25°C	1 Min~168 hours
Contact Capacity	Lamp Load: 1000W	
	Resistive load: 16A/250VAC (cosΦ=1)	
	Inductive load: 3A/250VAC (cosΦ=0.6)	
Working Reserve Time	24 hours charged can lasts 150hours	/
Full Timing Range	24h	24h
Storage Battery	150h	Without Battery
Minimum Setting Unit	30Minutes	30Minutes
Setup Times	30m/time 48 Times	30m/time 48 Times
Dimension	90×54×65mm	90×54×65mm
Weight	152g	152g
Installing Mode	DIN rail mounting	DIN rail mounting

D

Wiring diagram



Overall and mounting dimensions(mm)



Relay

SUL181d Time Relay

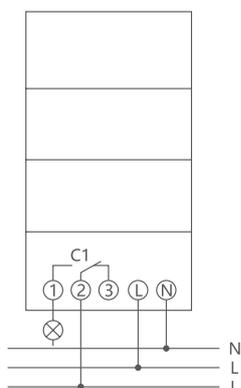


SUL181d

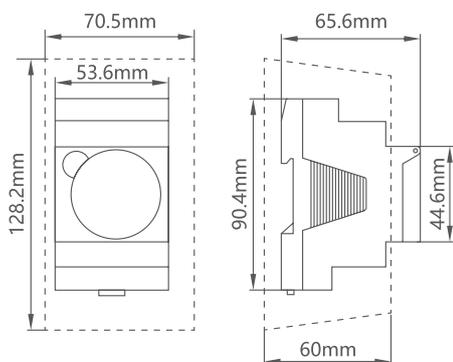
General

- Analogue time switch
- 1 channel
- Daily program
- With power reserve (NiMH rechargeable battery)
- 96 switching segments
- Quartz controlled
- Shortest switching time: 15 minutes
- Clock hands for time display and in addition 12/24 hour recognition
- Simple summer/winter time correction
- Time can be changed clockwise or anti-clockwise
- DuoFix spring terminals
- For 2 conductors each
- Wire or strand (with or without wire end sleeve)
- Wire diameter: 0.5 - 2.5 mm²
- Button for releasing plug-in connection
- Switching preselection
- Manual switch with 3 positions: Continuous ON/AUTO/continuous OFF
- Switching status display

Wiring diagram



Overall and mounting dimensions(mm)



Technical data

Item No.	SUL181d
Operating voltage	110–230 V AC
Frequency	50–60 Hz
Number of channels	1
Width	3 modules
Installation type	DIN rail
Type of connection	DuoFix spring terminals
Drive	Quartz-controlled stepper motor
Program	Daily program
Power reserve	200 hours approx. 100 hours at 110 V
Switching capacity at 250 V AC, $\cos \varphi = 1$	16 A
Switching capacity at 250 V AC, $\cos \varphi = 0,6$	4 A
Incandescent/halogen lamp load	1100 W
Shortest switching time	15 min
Programmable	every 15 min
Time accuracy at 25 °C	$\leq \pm 1s/day$ (quartz)
Contact type	Changeover contact
Switching output	Potential-free and phase-independent
Number of switching segments	96
Stand-by consumption	0.5W
Test approval	VDE
Housing and insulation material	High-temperature resistant, self-extinguishing thermoplastic
Protection type	IP 20
Protection class	II according to EN 60 730-1
Ambient temperature	-20°C...+55°C

Relay

YCT8-(A1/B2) Time Relay



YCT8-A1



YCT8-B2

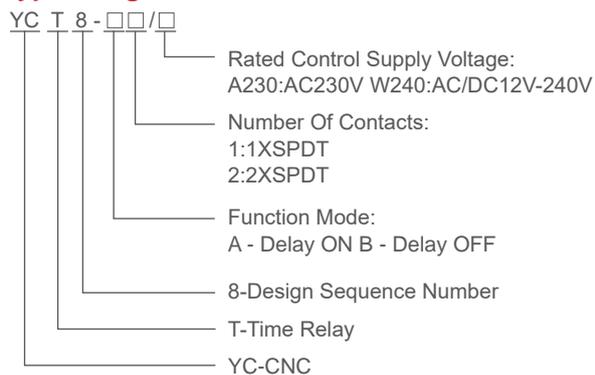
General

- Suitable for applications where the function and time requirements are known.
- Time switch, possible to be used for pump decay time after switching heating off, switching of fans.

Features

- Single-function relay with possibility of time setting by a potentiometer. -Choice of 2 functions:
A:Delay ON
B:Delay OFF
- Time scale 0.1 s -10 days divided into 10 ranges.
- Relay status is indicated by LED.
- 1-MODULE.DIN rail mounting.

Type designation



D

Relay

YCT8-(A1/B2) Time Relay

Technical data

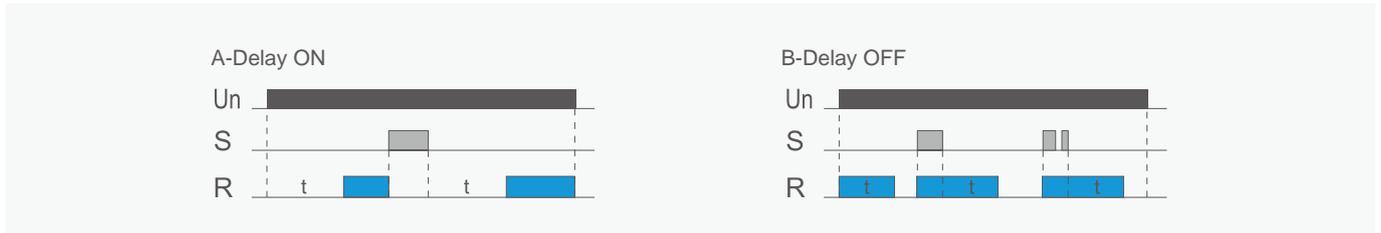
Technical parameters	YCT8-A1/B1	YCT8-A2/B2
Function	A,B,C,D,E,F,G,H,I,J	
Supply terminals	A1-A2	
Voltage range	AC/DC 12-240V(50-60Hz)	
Burden	AC 0.09-3VA/DC 0.05-1.7W	
Voltage range	AC230V(50-60Hz)	
Power input	AC max.6VA/1,3W	AC max.6VA/1,9W
Supply voltage tolerance	-15%;+10%	
Supply indication	green LED	
Time ranges	0.1s-10days,ON,OFF	
Time setting	potentionmeter	
Time deviation	10%-mechanical setting	
Repeat accuracy	0.2%-set value stability	
Temperature coefficient	0.05%/°C,at=20°C(0.05%°F, at=68°F)	
Output	1XSPDT	2XSPDT
Current rating	1X16A(AC1)	2X16A(AC1)
Switching voltage	250VAC/24VDC	
Min.breaking capacity DC	500mW	
Output indication	red LED	
Mechanical life	1X10 ⁷	
Electrical life(AC1)	1X10 ⁵	
Reset time	max.200ms	
Operating temperature	-20°C to +55°C (-4°Fto131°F)	
Storage temperature	-35°C to +75°C (-22°F to 158°F)	
Mounting/DIN rail	Din rail EN/IEC 60715	
Protection degree	IP40 for front panel/IP20 terminals	
Operating position	any	
Overvoltage category	III.	
Pollution degree	2	
Max.cable size(mn2)	solid wire max.1X2. 5or2X1. 5/with sleeve max.1X2.5 (AWG 12)	
Dimensions	90X18X64mm	
Weight	1XSPDT: W240-62g,A230-60g	
	2XSPDT:W240-82g,A230-81g	
Standards	EN 61812-1,IEC60947-5-1	

D

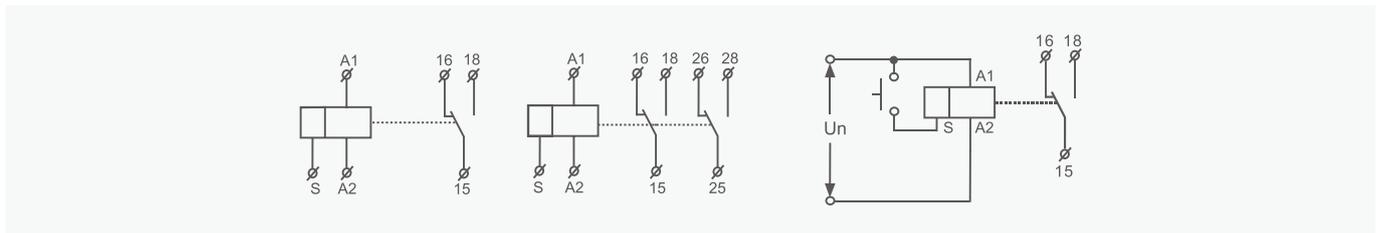
Relay

YCT8-(A1/B2) Time Relay

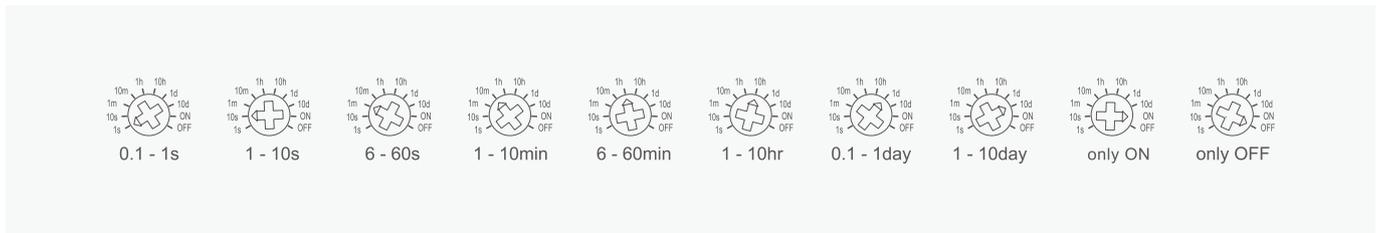
Functions diagram



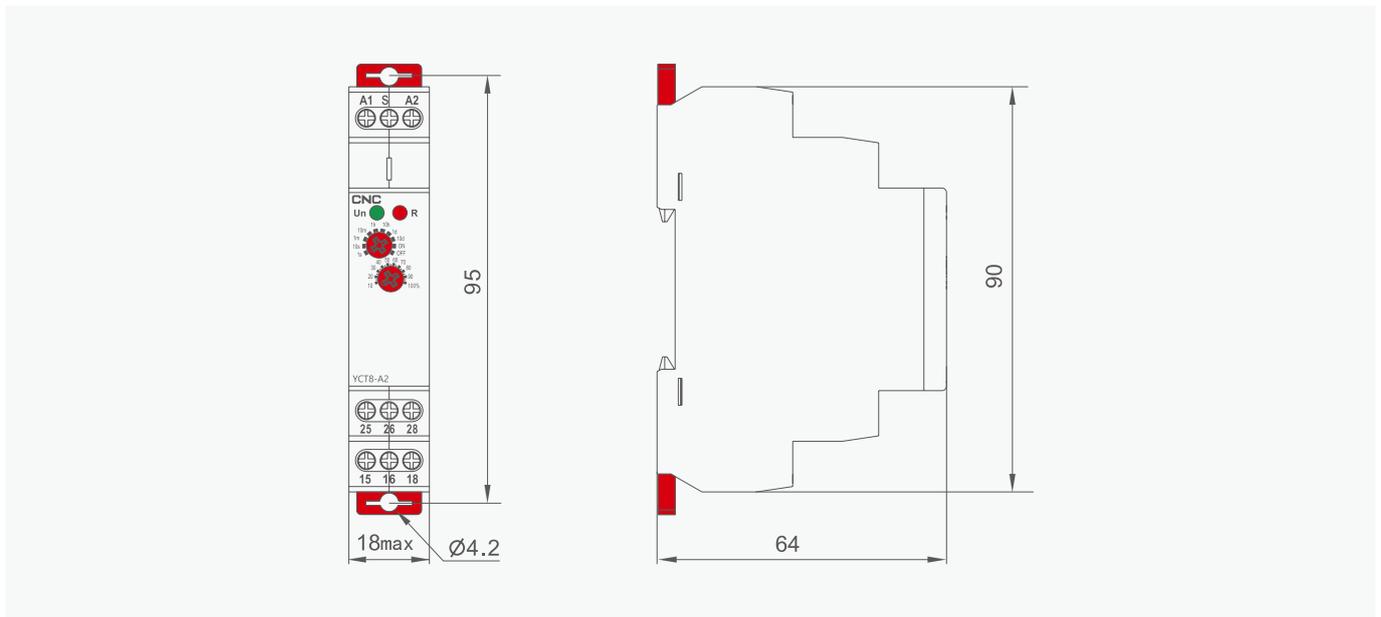
Wiring diagram



Time range



Overall and mounting dimensions(mm)



Relay

YCT8-(M1/M2) Time Relay



YCT8-M1



YCT8-M2

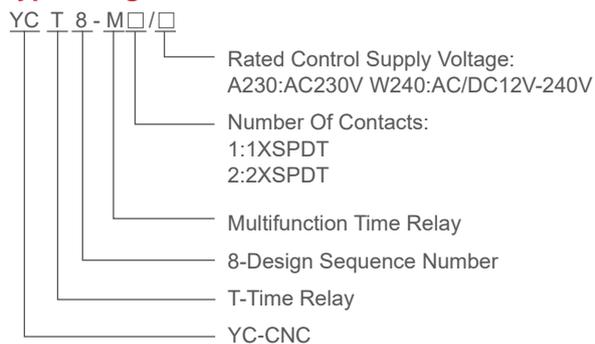
General

Multifunction time relay can be used for electrical appliances, control of lights, heating, motors, pumps and fans (10 functions, 10 time ranges, multi-voltage).

Features

- 10 functions: - 5 time functions controlled by supply voltage
- 4 time functions controlled by control input
- 1 function of latching relay
- Comfortable and well-arranged function and time-range setting by rotary switches.
- Time scale 0.1 s -10 days divided into 10 ranges.
- Relay status is indicated by LED.
- 1-MODULE.DIN rail mounting.

Type designation



D

Relay

YCT8-(M1/M2) Time Relay

Technical data

Technical parameters	YCT8-M1	YCT8-M2
Function	A,B,C,D,E,F,G,H,I,J	
Supply terminals	A1-A2	
Voltage range	AC/DC 12-240V(50-60Hz)	
Burden	AC 0.09-3VA/DC 0.05-1.7W	
Voltage range	AC230V(50-60Hz)	
Power input	AC max.6VA/1,3W	AC max.6VA/1,9W
Supply voltage tolerance	-15%;+10%	
Supply indication	green LED	
Time ranges	0.1s-10days,ON,OFF	
Time setting	potentionmeter	
Time deviation	10%-mechanical setting	
Repeat accuracy	0.2%-set value stability	
Temperature coefficient	0.05%/°C,at=20°C(0.05%°F, at=68°F)	
Output	1XSPDT	2XSPDT
Current rating	1X16A(AC1)	2X16A(AC1)
Switching voltage	250VAC/24VDC	
Min.breaking capacity DC	500mW	
Output indication	red LED	
Mechanical life	1X10 ⁷	
Electrical life(AC1)	1X10 ⁵	
Reset time	max.200ms	
Operating temperature	-20°C to +55°C (-4°Fto131°F)	
Storage temperature	-35°C to +75°C (-22°F to 158°F)	
Mounting/DIN rail	Din rail EN/IEC 60715	
Protection degree	IP40 for front panel/IP20 terminals	
Operating position	any	
Overvoltage category	III.	
Pollution degree	2	
Max.cable size(mn2)	solid wire max.1X2. 5or2X1. 5/with sleeve max.1X2.5 (AWG 12)	
Dimensions	90X18X64mm	
Weight	1XSPDT: W240-62g,A230-60g	
	2XSPDT:W240-82g,A230-81g	
Standards	EN 61812-1,IEC60947-5-1	

D

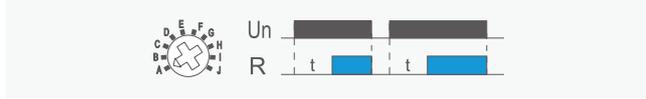
Relay

YCT8-(M1/M2) Time Relay

Functions diagram

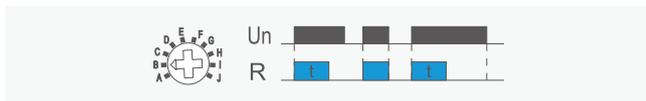
A: On Delay (Power On)

When the input voltage U is applied, timing delay t begins. Relay contacts R change state after time delay is complete. Contacts R return to their shelf state when input voltage U is removed. Trigger switch is not used in this function.



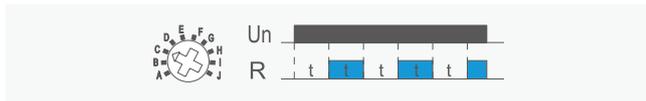
B: Interval (Power On)

When input voltage U is applied, relay contacts R change state immediately and timing cycle begins. When time delay is complete, contacts return to shelf state. When input voltage U is removed, contacts will also return to their shelf state. Trigger switch is not used in this function.



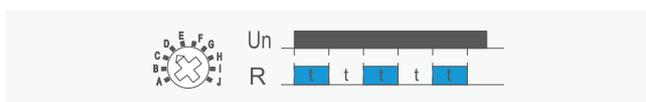
C: Repeat Cycle (Starting Off)

When input voltage U is applied, time delay t begins. When time delay t is complete, relay contacts R change state for time delay t. This cycle will repeat until input voltage U is removed. Trigger switch is not used in this function.



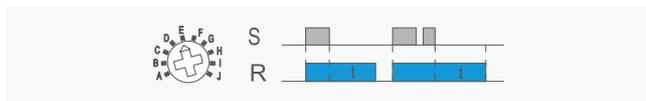
D: Repeat Cycle (Starting On)

When input voltage U is applied, relay contacts R change state immediately and time delay t begins. When time delay t is complete, contacts return to their shelf state for time delay t. This cycle will repeat until input voltage U is removed. Trigger switch is not used in this function.



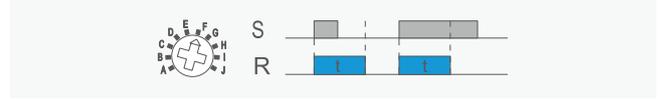
E: Off Delay (S Break)

Input voltage U must be applied continuously. When trigger switch S is closed, relay contacts R change state. When trigger switch S is opened, delay t begins. When delay t is complete, contacts R return to their shelf state. If trigger switch S is closed before time delay t is complete, then time is reset. When trigger switch S is opened, the delay begins again, and relay contacts R remain in their energized state. If input voltage U is removed, relay contacts R return to their shelf state.



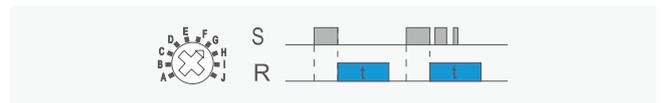
F: Single Shot

Upon application of input voltage U, the relay is ready to accept trigger signal S. Upon application of the trigger signal S, the relay contacts R transfer and the preset time t begins. During time-out, the trigger signal S is ignored. The relay resets by applying the trigger switch S when the relay is not energized.



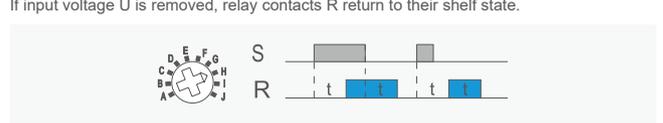
G: Single Shot Trailing Edge (Non-Retriggerable)

Upon application of input voltage U, the relay is ready to accept trigger signal S. Upon application of the trigger signal S, the relay contacts R transfer and the preset time t begins. At the end of the preset time t, the relay contacts R return to their normal condition unless the trigger switch S is opened and closed prior to time out t (before preset time elapses). Continuous cycling of the trigger switch S at a rate faster than the preset time will cause the relay contacts R to remain closed. If input voltage U is removed, relay contacts R return to their shelf state.



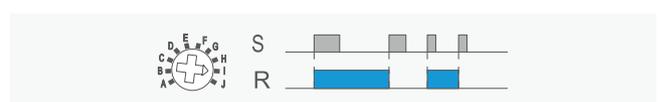
H: On/Off Delay

Input voltage U must be applied continuously. When trigger switch S is closed, time delay t begins. When time delay t is complete, relay contacts R change state and remain transferred until trigger switch S is opened. If input voltage U is removed, relay contacts R return to their shelf state.



I: Latching relay

Input voltage U must be applied continuously. Output changes state with every trigger switch S closure. If input voltage U is removed, relay contacts R return to their shelf state.

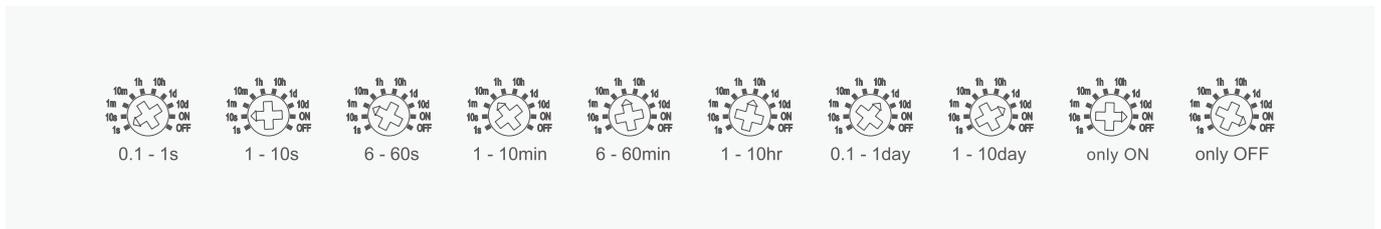


J: Pulse generator

Upon application of input voltage U, a single output pulse of 0.5 seconds is delivered to relay after time delay t. Power must be removed and re-applied to repeat pulse. Trigger switch is not used in this function.



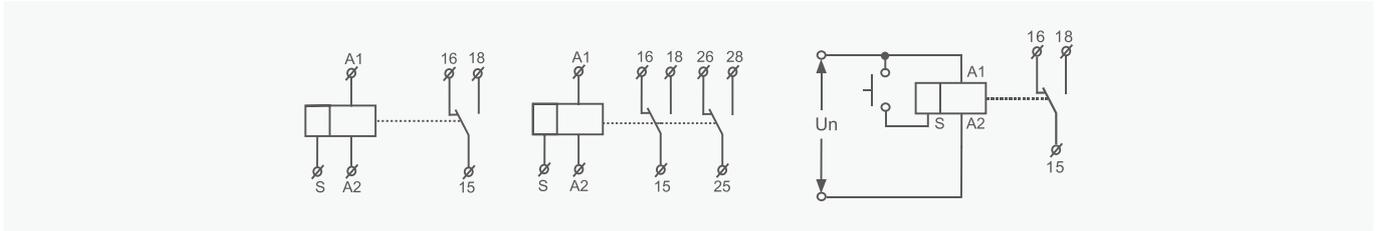
Time range



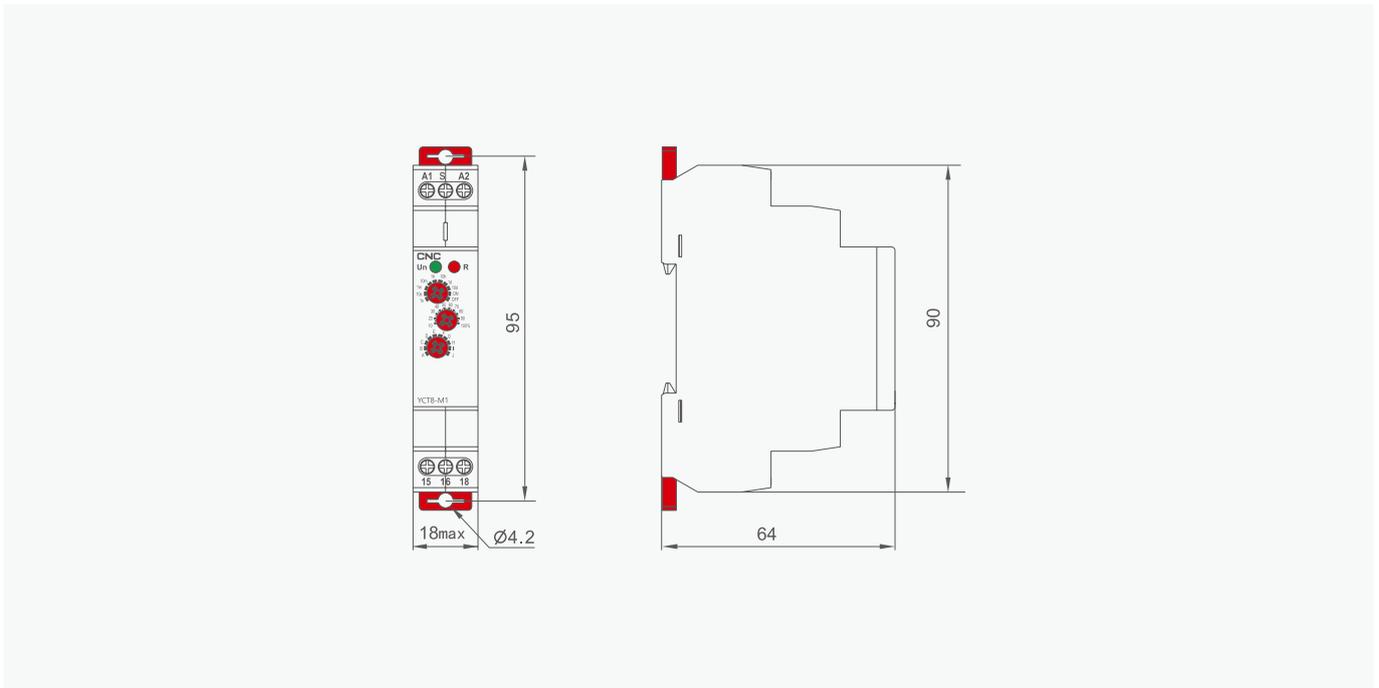
Relay

YCT8-(M1/M2) Time Relay

Wiring diagram



Overall and mounting dimensions(mm)



D

Relay

YCT8-2T Time Relay



YCT8-2T

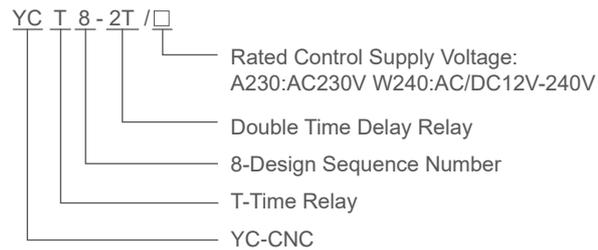
General

For gradual switching of heavy powers (e.g. el.heating), prevents current strokes in the main.

Features

- 2x Delay ON (2 time relays in one)
- Time scale 0.1s -10 days divided into 10 time ranges: 0.1s-1s/1s-10s/ 0.1 min -1 min/1min-10min/0.1h-1h/1h-10hrs/0.1day-1 day/1 day-10 days/ON/OFF.
- Times t1 and t2 are independantly adjustable.
- 11 and t2 are switched on after supply voltage connection.
- Relay status is indicated by LED.
- 1-MODULE,DIN rail mounting.

Type designation



D

Relay

YCT8-2T Time Relay

Technical data

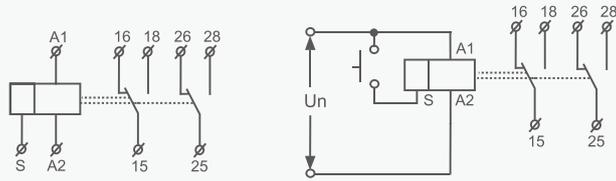
Technical parameters	YCT8-2T
Function	2x Delay ON
Supply terminals	A1-A2
Voltage range	AC/DC 12-240V(50-60Hz)
Burden	AC 0.09-3VA/DC 0.05-1.7W
Voltage range	AC230V(50-60Hz)
Power input	ACmax.6VA/1.9W
Supply voltage tolerance	-15%;+10%
Supply indication	green LED
Time ranges	0.1s-10days,ON,OFF
Time setting	potentionmeter
Time deviation	10%-mechanical setting
Repeat accuracy	0.2%-set value stability
Temperature coefficient	0.05%/°C,at=20°C(0.05%°F, at=68°F)
Output	2XSPDT
Current rating	16A/AC1
Switching voltage	250VAC/24VDC
Min.breaking capacity DC	500mW
Output indication	red LED
Mechanical life	1X10 ⁷
Electrical life(AC1)	1X10 ⁵
Reset time	max.200ms
Operating temperature	-20°C to +55°C (-4Tto131°F)
Storage temperature	-35°C to +75°C (-22°F to 158°F)
Mounting/DIN rail	Din rail EN/IEC 60715
Protection degree	IP40 forfront panel/IP20 terminals
Operating position	any
Overvoltage category	III.
Pollution degree	2
Max.cable size(mn2)	solid wire max.1X2. 5or2X1.5/with sleeve max.1X2. 5(AWG 12)
Dimensions	90X18X64mm
Weight	W240-82g,A230-82g
Standards	EN61812-1. JEC60947-5-1

D

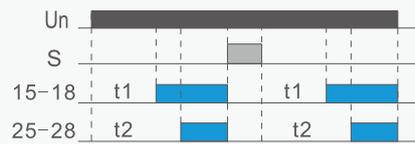
Relay

YCT8-2T Time Relay

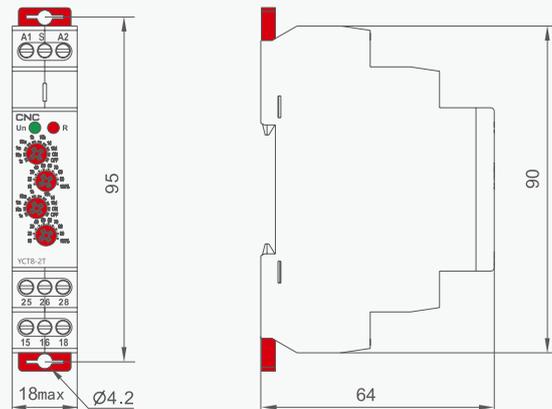
Wiring diagram



Functions diagram



Overall and mounting dimensions(mm)



Relay

YCT8-(S1/S2) Time Relay

General

It is used for regular room ventilation, cyclic dehumidification, light control, circulating pumps, noon signs, etc.

Features

- 2 time functions:
 - Cycler beginning with pulse
 - Cycler beginning with pause
- Function choice is done by an external jumper of terminals S-A1.
- Time scale 0.1 s -100 days divided into 10 time ranges:
(0.1 s -1 s /1 s - 10s /0.1 min -1 min /1 min -10 min /0.1 hrs -1 h /1 hrs -10 hrs / 0.1 day -1 day /1 day -10 days /3 days - 30 days / 10 days -100 days).
- Relay status is indicated by LED.
- 1-MODULE, DIN rail mounting.



YCT8-S1



YCT8-S2

Type designation

Y C T 8 - S □ / □

- Rated Control Supply Voltage:
A230:AC230V W240:AC/DC12V-240V
- Number Of Contacts:
1:1XSPDT
2:2XSPDT
- Double Time Delay Relay
- 8-Design Sequence Number
- T-Time Relay
- YC-CNC

Relay

YCT8-(S1/S2) Time Relay

Technical data

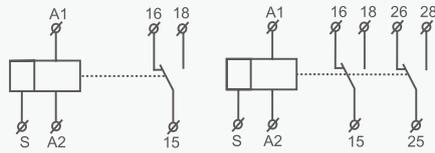
Technical parameters	YCT8-S1	YCT8-S2
Function	Asymmetric cycler time relay	
Supply terminals	A1-A2	
Voltage range	AC/DC12-240V(50-60Hz)	
Burden	AC 0.09-3VA/DC 0.05-1.7W	
Voltage range	AC230V(50-60Hz)	
Power input	AC max.6VA/1,3W	AC max.6VA/1,9W
Supply voltage tolerance	-15%; + 10%	
Supply indication	green LED	
Time ranges	0.1s-10days	
Time setting	potentionmeter	
Time deviation	10%-mechanical setting	
Repeat accuracy	0.2%-set value stability	
Temperature coefficient	0.05%/°C,at=20°C(0.05%T, at=68T)	
Output	1XSPDT	2XSPDT
Current rating	1X16A(AC1)	2X16A(AC1)
Switching voltage	250VAC/24VDC	
Min.breaking capacity DC	500mW	
Output indication	red LED	
Mechanical life	1X10 ⁷	
Electrical life(AC1)	1X10 ⁵	
Reset time	max.200ms	
Operating temperature	-20°C to +55°C (-4T to 131T)	
Storage temperature	-35°C to +75°C (-22T to 158T)	
Mounting/DIN rail	Din rail EN/IEC 60715	
Protection degree	IP40 for front panel/IP20 terminals	
Operating position	any	
Overvoltage category	III.	
Pollution degree	2	
Max.cable size(mn2)	solid wire max.1X2.5or2X1. 5/with sleeve max.1X2. 5(AWG 12)	
Dimensions	90X18X64mm	
Weight	1XSPDT: W240-62g,A230-61g	
	2XSPDT: W240-82g,A230-82g	
Standards	EN 61812-1,IEC60947-5-1	

D

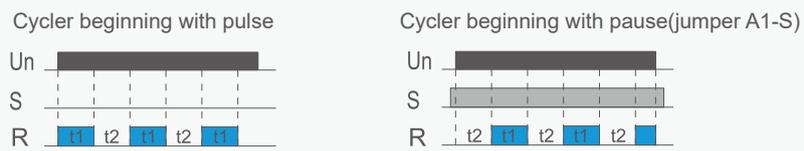
Relay

YCT8-(S1/S2) Time Relay

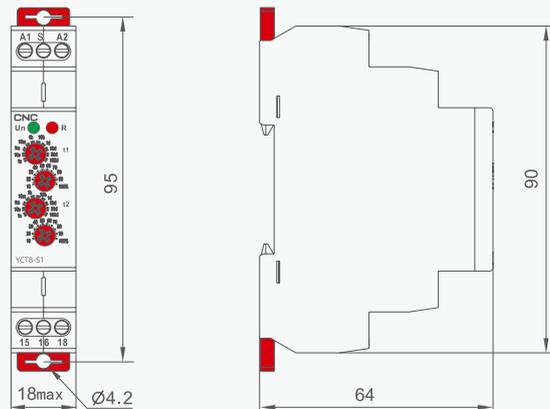
Wiring diagram



Functions diagram



Overall and mounting dimensions(mm)



D

Relay

YCT8-D Time Relay



YCT8-D

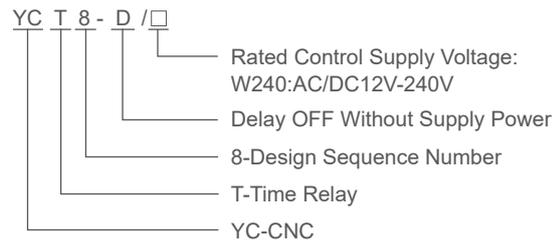
General

Back-up source for Delay OFF in case of voltage failure (emergency lighting, emergency respirator, or protection of el. controlled doors - in case of fire).

Features

- Time range (adjustable by rotary switch and fine setting by potentiometer): 0.1s- 10 min.
- Voltage range: AC/DC 12-240V , clamp terminals.
- Relay status is indicated by LED.
- 1-MODULE.DIN rail mounting.

Type designation



D

Relay

YCT8-D Time Relay

Technical data

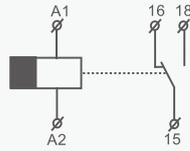
Technical parameters	YCT8-D
Function	Delay OFF without supply power
Supply terminals	A1-A2
Voltage range	AC/DC 12-240V(50-60Hz)
Burden	AC 0.09-3VA/DC 0.05-1.5W
Supply voltage tolerance	-15%; + 10%
Supply indication	green LED
Time ranges	0.1s-10min
Time setting	potentionmeter
Time deviation	10%-mechanical setting
Repeat accuracy	0.2%-set value stability
Mininum power time	3s
Temperature coefficient	0.05%/°C,at=20°C(0.05%°F, at=68°F)
Output	1XSPDT
Current rating	16A/AC1
Switching voltage	250VAC/24VDC
Min.breaking capacity DC	500mW
Output indication	red LED
Mechanical life	1X10 ⁶
Electrical life(AC1)	5X10 ⁴
Reset time	max.200ms
Operating temperature	-20°C to +55°C (-4T to 131°F)
Storage temperature	-35°C to +75°C (-22°F to 158°F)
Mounting/DIN rail	Din rail EN/IEC 60715
Protection degree	IP40 for front panel/IP20 terminals
Operating position	any
Overvoltage category	III.
Pollution degree	2
Max.cable size(mm ²)	solid wire max.1X2.5or2X1,5/with sleeve max. 1X2. 5(AWG 12)
Dimensions	90X18X64mm
Weight	66g
Standards	EN 61812-1,IEC60947-5-1

D

Relay

YCT8-D Time Relay

Wiring diagram

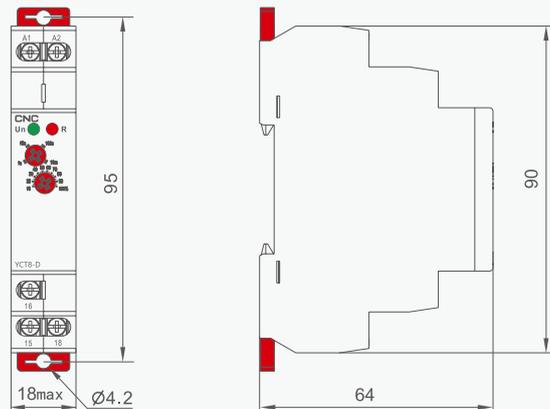


Functions diagram



D

Overall and mounting dimensions(mm)



Relay

YCT8-ST Time Relay



YCT8-ST

General

Designated for delay ON of motors star/delta.

Features

- Time t1 (star):
time scale 0.1 s - 10min divided into 4 time ranges rough time setting by rotary switch.
- Time t2 (delay):
time scale 0.1 s - 1 s.
time setting by potentiometer.
- Relay status is indicated by LED.
- 1-MODULE.DIN rail mounting.

Type designation

YC T 8 - ST / □



D

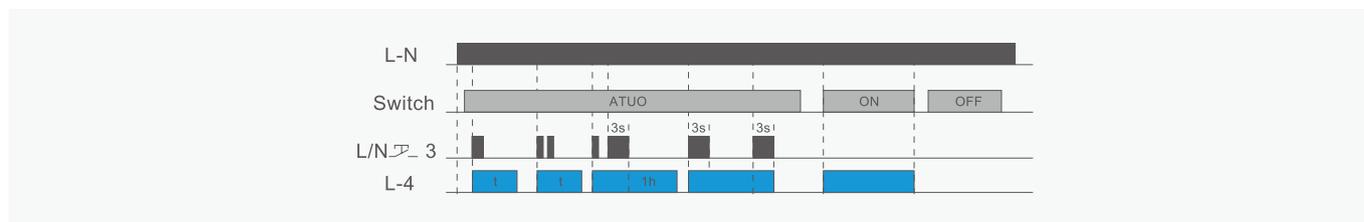
Relay

YCT8-ST Time Relay

Technical data

Technical parameters	YCT8-ST
Function	Delay ON star/delta
Supply terminals	A1-A2
Voltage range	AC/DC 12-240V(50-60Hz)
Burden	AC0.3-2VA/DC0.1-1.2W
Voltage range o	AC 230V/AC400V(50-60Hz)
Power input < <	ACmax.6VA/1.3W
Supply voltage tolerance	-15%;+10%
Supply indication	green LED
Time ranges	Range of time delay H:0.1 s-10 min .Switch time t2:0.1 s-1 s
Time setting	potentionmeter
Time deviation	10%-mechanical setting
Repeat accuracy	0.2%-set value stability
Temperature coefficient	0.05%/oC,at=20oC(0.05%T, at=68T)
Output	2XSPDT
Current rating	16A/AC1
Switching voltage	250VAC/24VDC
Min.breaking capacity DC	500mW
Output indication	red LED
Mechanical life	1X10 ⁷
Electrical life(AC1)	1X10 ⁵
Reset time	max.200ms
Operating temperature	-20°C to +55°C (-4°F to 131T)
Storage temperature	-35°C to +75°C (-22T to 158T)
Mounting/DIN rail	Din rail EN/IEC 60715
Protection degree	IP40 for front panel/IP20 terminals
Operating position	any
Overvoltage category	III.
Pollution degree	2
Max.cable size(mm ²)	solid wire max.1X2.5 or 2X1.5/with sleeve max. 1X2. 5(AWG 12)
Dimensions	90X18X64mm
Weight	W240-82g,A230-80g
Standards	EN 61812-1,IEC60947-5-1

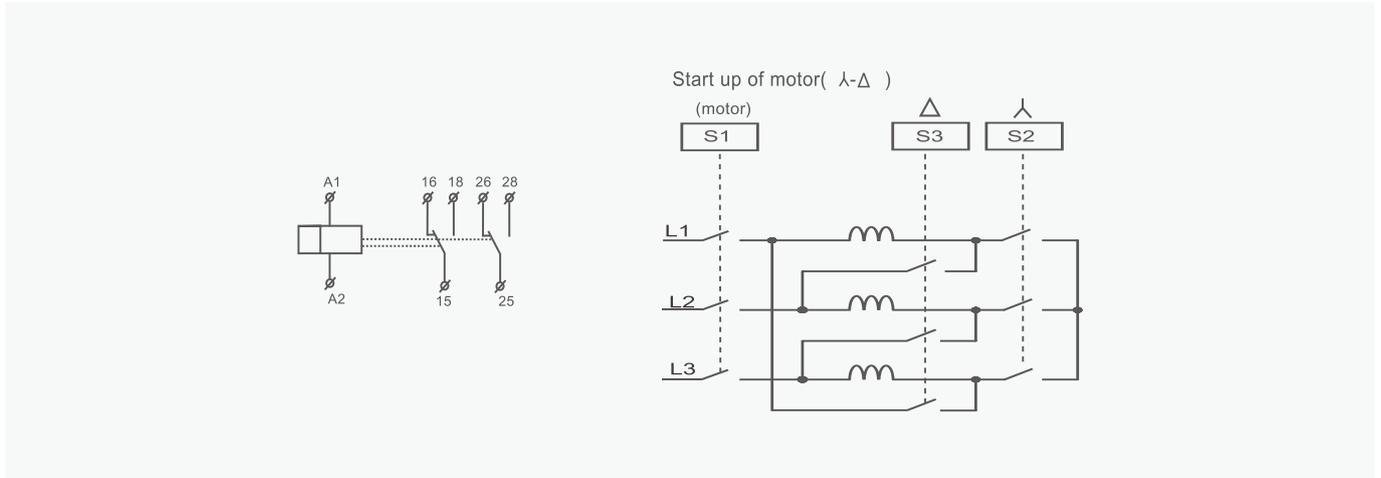
Functions diagram



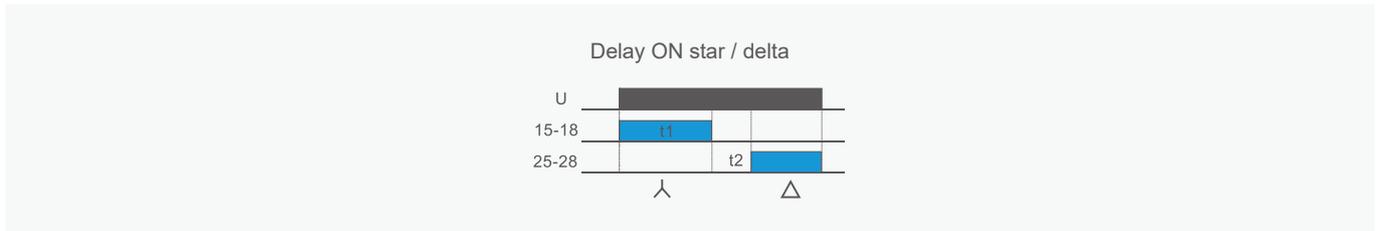
Relay

YCT8-ST Time Relay

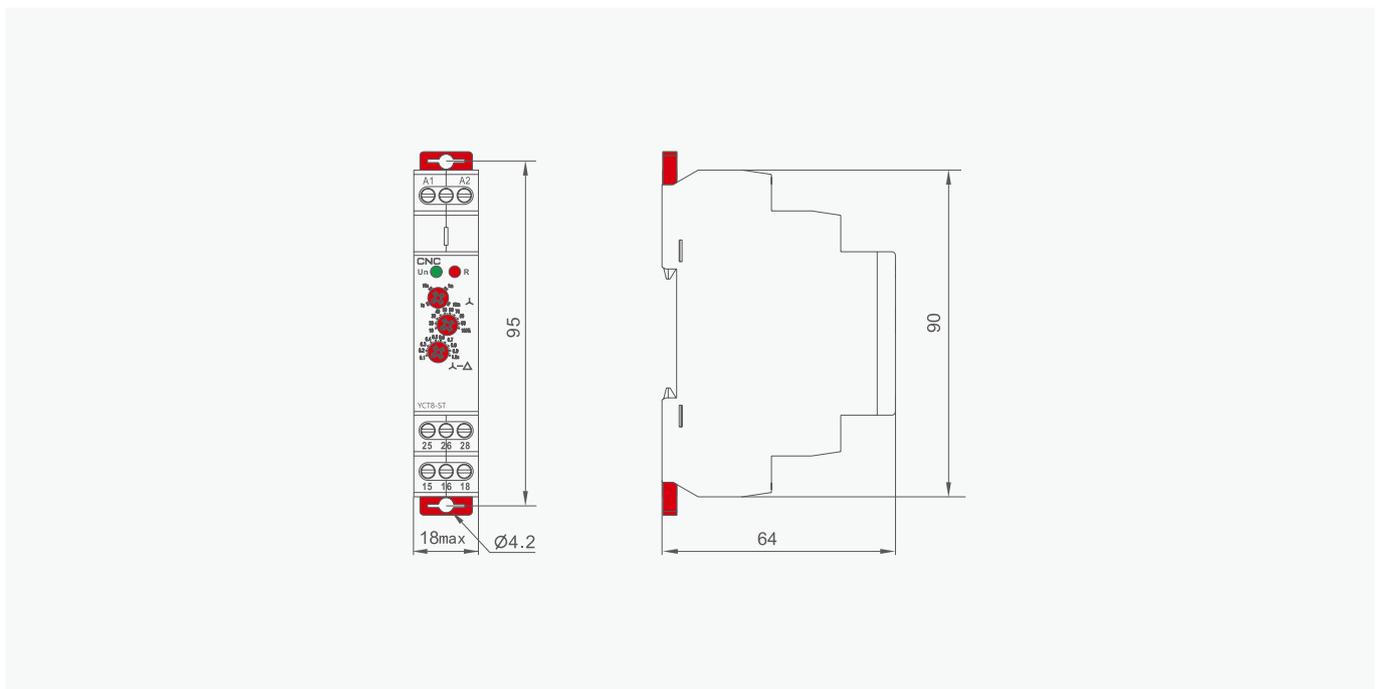
Wiring diagram



Functions diagram



Overall and mounting dimensions(mm)



Relay

YCT8-LS Time Relay



YCT8-LS

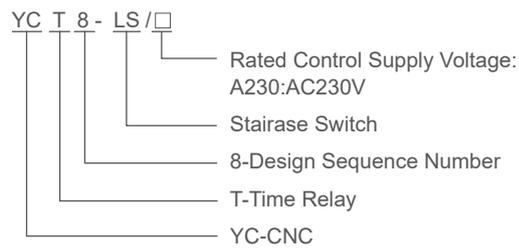
General

It is used for delayed switching of lights in the corridors, entrances, stairways, halls or for delayed finish of fans (WC, bathroom, etc.).

Features

- Operating system switch:
ON - output is constantly ON .
AUTO - timing according to the adjustment of the potentiometer in range 0.5- 20min
OFF-output is constantly OFF .
- Voltage range: AC 230 V, clamp terminals.
- Relay status is indicated by LED.
- 1-MODULE.DIN rail mounting.

Type designation



Relay

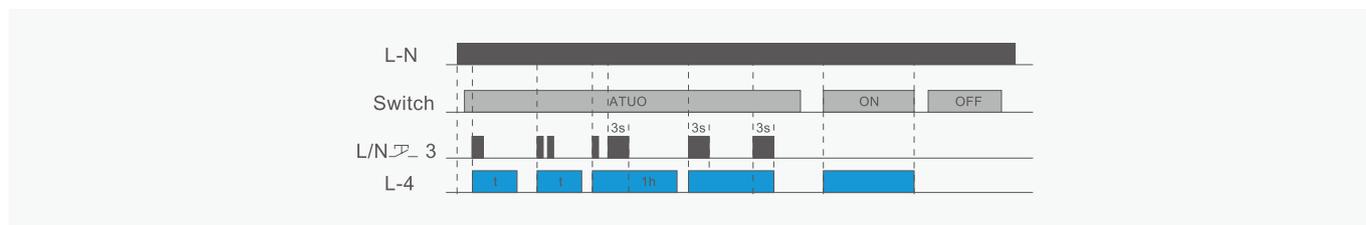
YCT8-LS Time Relay

Technical data

Technical parameters	YCT8-LS
Function	Delay ON star/delta
Supply terminals	A1-A2
Voltage range	AC/DC 12-240V(50-60Hz)
Burden	AC0.3-2VA/DC0.1-1.2W
Voltage range o	AC 230V/AC400V(50-60Hz)
Power input < <	ACmax.6VA/1.3W
Supply voltage tolerance	-15%;+10%
Supply indication	green LED
Time ranges	Range of time delay H:0.1 s-10 min .Switch time t2:0.1 s-1 s
Time setting	potentionmeter
Time deviation	10%-mechanical setting
Repeat accuracy	0.2%-set value stability
Temperature coefficient	0.05%/oC,at=20oC(0.05%T, at=68T)
Output	2XSPDT
Current rating	16A/AC1
Switching voltage	250VAC/24VDC
Min.breaking capacity DC	500mW
Output indication	red LED
Mechanical life	1X10 ⁷
Electrical life(AC1)	1X10 ⁵
Reset time	max.200ms
Operating temperature	-20°C to +55°C (-4°F to 131T)
Storage temperature	-35°C to +75°C (-22T to 158T)
Mounting/DIN rail	Din rail EN/IEC 60715
Protection degree	IP40 for front panel/IP20 terminals
Operating position	any
Overvoltage category	III.
Pollution degree	2
Max.cable size(mm ²)	solid wire max.1X2.5or2X1.5/with sleeve max. 1X2. 5(AWG 12)
Dimensions	90X18X64mm
Weight	W240-82g,A230-80g
Standards	EN 61812-1,IEC60947-5-1

D

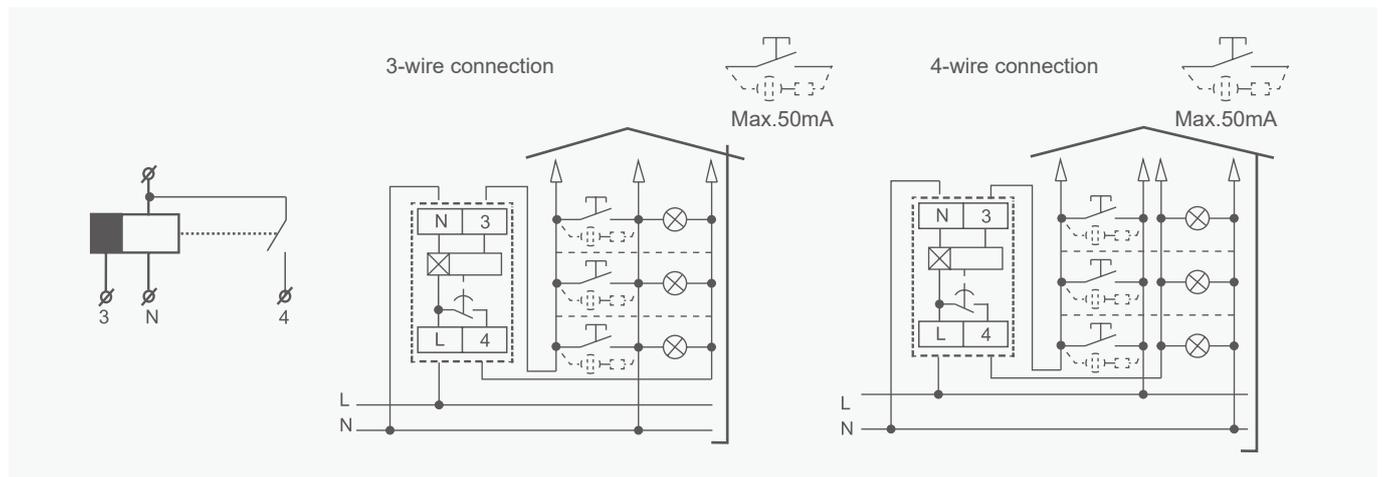
Functions diagram



Relay

YCT8-LS Time Relay

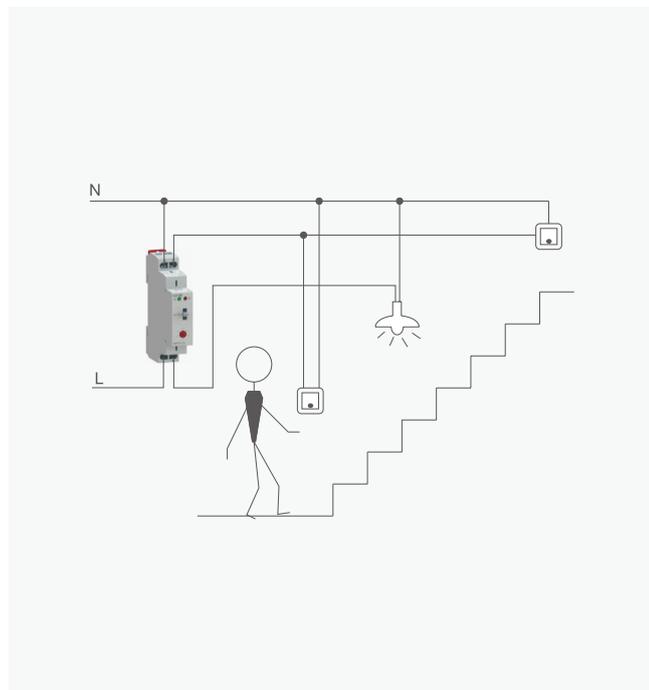
Wiring diagram



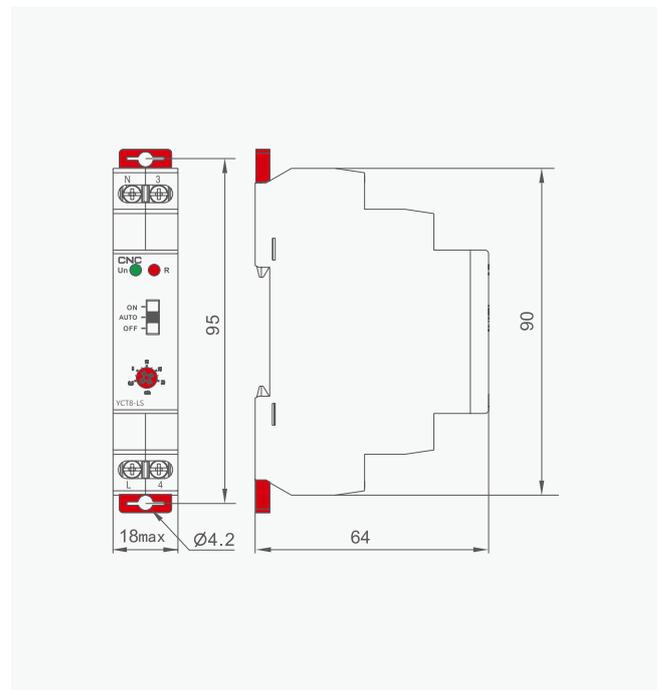
Types of lamps

					
2000W	2000W	1000W	900W(125uF)	400W	300W

Example



Overall and mounting dimensions(mm)



Relay

TS711 Time Relay



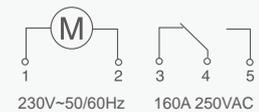
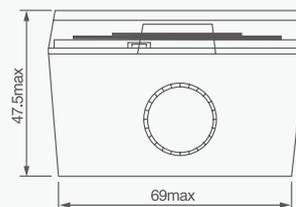
TS711

Technical data

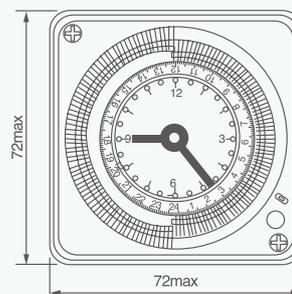
Item No.	TS711	TS710
Operating Voltage	AC 220-240V	AC 220-240V
Power Consumption	0.5V	0.5V
Contact Capacit	AC 220V 16A	AC 220V 16A
Contact Resistance	$\leq 50\text{m}\Omega$	$\leq 50\text{m}\Omega$
Inaulation Resistance	$\geq 100\text{M}\Omega$	$\geq 100\text{M}\Omega$
Operating Temperature	$-10^{\circ}\text{C}\sim+50^{\circ}\text{C}$	$-10^{\circ}\text{C}\sim+50^{\circ}\text{C}$
Operating Temperature	$\leq 1\text{S/day } 25^{\circ}\text{C}$	$\leq 1\text{S/day } 25^{\circ}\text{C}$
Contact Capacity	Lamp Load: 1000W	
	Resistive load: 16A/250VAC($\cos\Phi=1$)	
	Inductive load: 3A/250VAC($\cos\Phi=0.6$)	
Working Reserve Time	120 hours charged can last 200hours	/
Full Timing Range	24h	24h
Storage Battery	70h	Without Battery
Minimum Setting Unit	10Minutes	10Minutes
Setup Times	10m/time 144 Times	10m/time 144 Times
Dimension	72x72x47mm	72x72x47mm
Weight	135g	135g
Installing Mode	DIN rail mounting	DIN rail mounting

D

Technical data



Overall and mounting dimensions(mm)



Relay

TB17 Time Relay

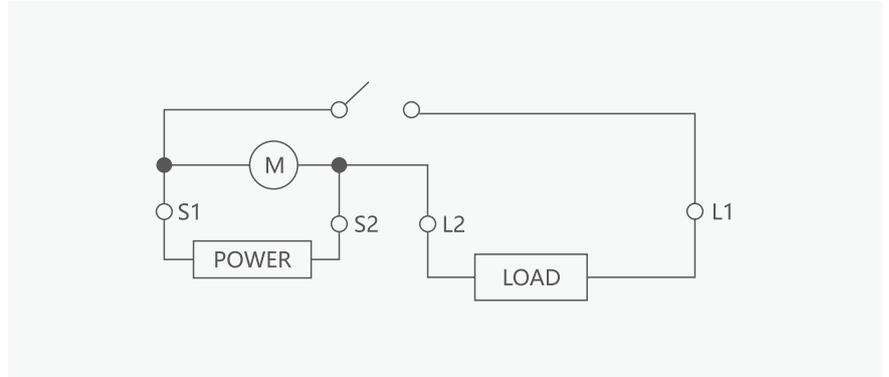


D

Technical data

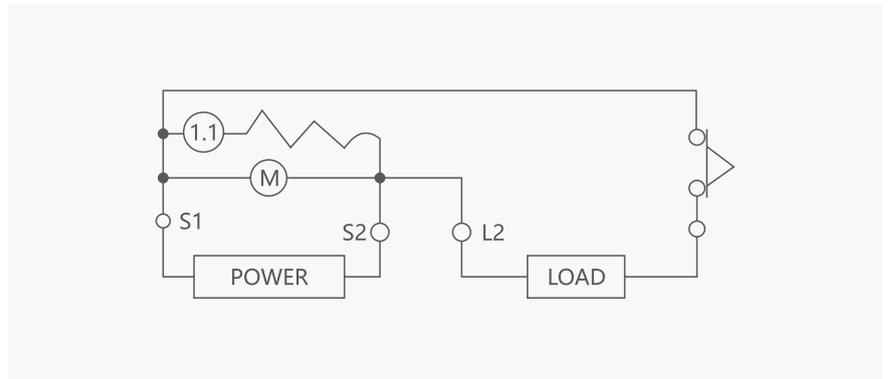
TB17

Item No.	Data
Voltage	AC 110~240V DC 12~24V 50/60Hz
Contact	Timed SPDTc
Operation	Time operation
Timing range	24H



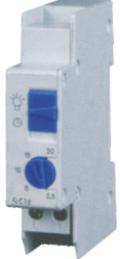
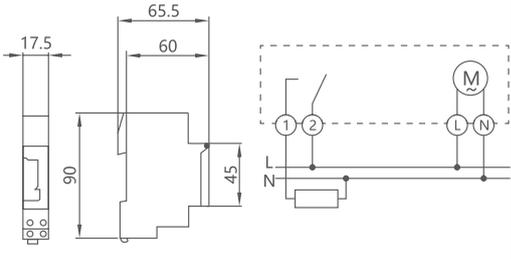
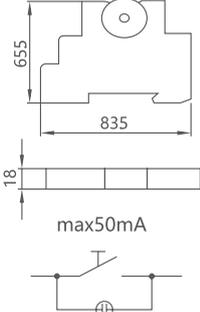
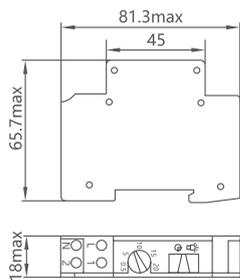
TB35

Item No.	Data
Voltage	AC 110~240V DC 12~24V 50/60Hz
Contact	Timed SPDTc
Timing range	24H



Relay

SUL180a,SUL160a,YCST8,YCC18 Time Relay

Classification		Timer			
Model		SUL180a	SUL160a	YCST8	YCST18
Appearance					
Contact capacity		AC230 16(4)A	AC220 16(4)A	AC220 16A	AC220 16A
Full timing range		24h	24h	7min	20min
Contact resistance		≤50mΩ	≤50mΩ	≤50mΩ	≤50mΩ
Insulation resistance		≥100MΩ	≥100MΩ	≥100MΩ	≥100MΩ
Coil voltage		110, 230VAC	110, 230VAC	110, 230VAC	110, 230VAC
Life	Electrical	10 ⁵ times	10 ⁵ times	10 ⁵ times	10 ⁵ times
	Mechanical	10 ⁷ times	10 ⁷ times	10 ⁷ times	10 ⁷ times
Operating temperature		-10°C~+50°C	-10°C~+50°C	-20°C~+55°C	-20°C~+55°C
Dimensions(mm)					
Storage battery (working reserve)		time 70h	without battery		
Minimum setting unit		15Minutes	15Minutes	0.5Minutes	0.5Minutes
Set up times		15m/per time9 6times	15m/per time9 6times	1M, 1.5M, 2M, 2.5M 3M, 3.5M, 4M, 4.5M, 5M 5.5M, 6M, 6.5M, 7M	0.5M, 5M, 10M 15M, 20M
Max. power consumption		1VA	1VA	1VA	24H

D

Relay

BZ142 Hour Meter



BZ142-A

General

This hour meter is the mechanical type. Widely applied in all kinds of machine, equipment and device (such as environmental protection equipment generator etc). Used for to demonstrate the machine, equipment, device operating time accumulation. This kind of mechanical accumulation has the longest time and can accumulate 11 years. It can also maintain data after power failure.

Technical data

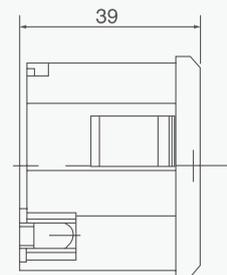
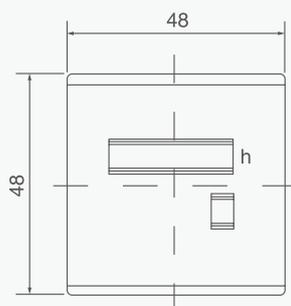
Item No.	BZ142-1	BZ142-2	BZ142-3
Operating Voltage	AC 220V	AC 220V	DC 10-80V
Ferquency	50Hz	60Hz	
Time Range	0-99,999.99 hour(h)		
Dimension	48x48x40mm		
Net Weight	50g		
Mounting	Insert Type		



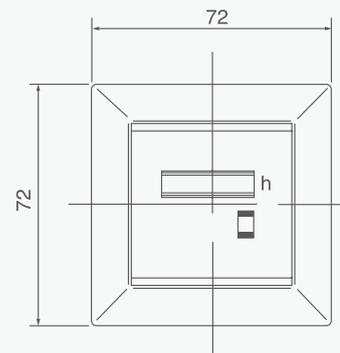
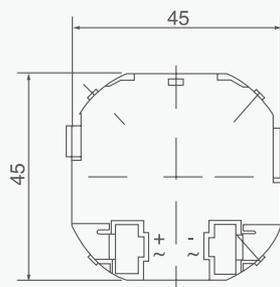
BZ142-1

Overall and mounting dimensions(mm)

BZ142-A



BZ142-1



Relay

DH48J Time Relay



DH48J



PF083A



PF083A-E

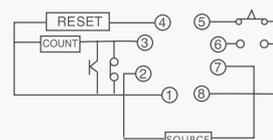
Type designation



Technical data

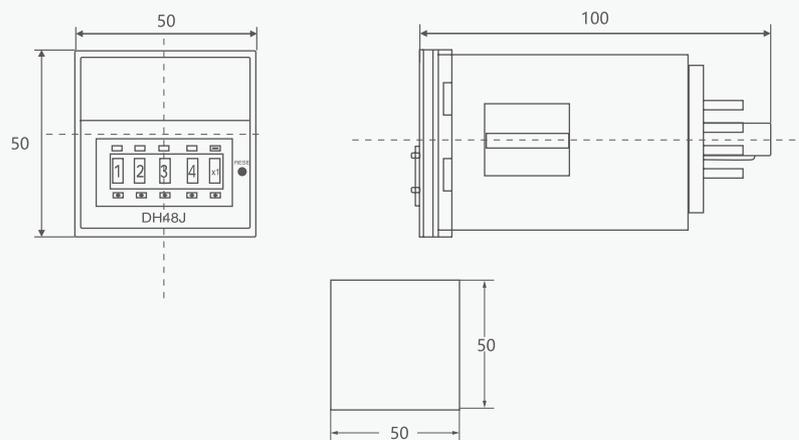
Item No.	Data
Voltage	DC12V-48V AC12V-380V 50HZ
Counting Method	accumulation
Counting Range	1-9999 (×1×10×100) Contacts input or photoelectric switch input
Input Signal	Multiple dial switch pre-setting
Counting Speed	30 times/S
Contact Capacity	AC220V 3A; DC28V 3A
Operating Temperature	-10°C~50°C
Humidity	35%~85%
Life	Mech:10 ⁷ Elec:10 ³
Weight	≈100g

Wiring diagram



DH48J Circuit Diagram

Overall and mounting dimensions(mm)



Mounting dimensions

Relay

DH48S-1Z/2Z Time Relay



DH48S-2Z

Type designation

DH48S - 1Z/2Z AC220V

- Voltage DC 12V-48V AC 24V-380V
- Operation 1Z: Power on-delay Reset & Gate;
2Z: Power on-delay
- Relay type

Technical data

Item No.	Data
Voltage	DC12V-48V AC24V-380V 50HZ
Power Consumption	DC1.0W AC1.0VA
Control Output	5A 220V AC
Insulation Resistance	DC500V 100MΩ
Dielectric Strength	BCC1500VAC BOC1000VAC
Operating Temperature	-10°C~50°C
Humidity	35%~85%
Life	Mech:10 ⁷ Elec:10 ³
Weight	≈150g
Installing Hole Size	45x45mm



PF083A

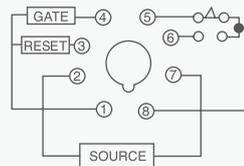


PF083A-E

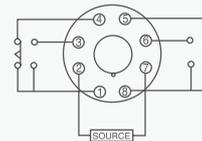
Time range

0.01S~99.99S; 1S~99M99S; 1M~99H99M

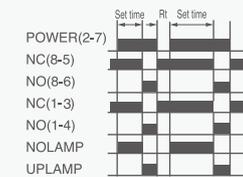
Wiring diagram



DH48S-1Z Circuit Diagram

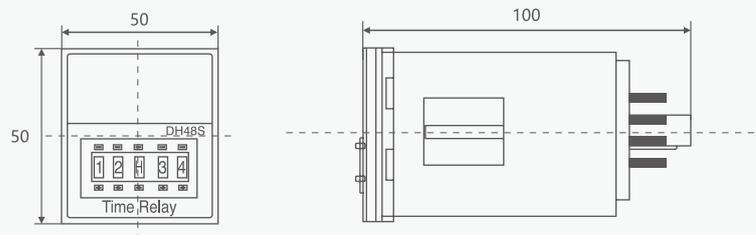


DH48S-2Z Circuit Diagram



DH48S-Delay Waveform

Overall and mounting dimensions(mm)



Relay

DH48S-S Time Relay



DH48S-S



PF083A



PF083A-E

Type designation



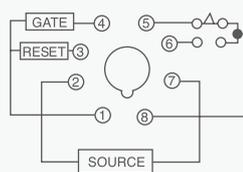
Technical data

Item No.	Data
Voltage	DC12V-48V AC 24V-380V50HZ
Power Consumption	DC1.0W AC1.0VA
Control Output	5A 220V AC
Insulation Resistance	DC500V 100MΩ
Dielectric Strength	BCC1500VAC BOC1000VAC
Operating Temperature	-10°C~50°C
Humidity	35%~85%
Life	Mech:10 ⁷ Elec:10 ³
Weight	≈150g
Installing Hole Size	45x45mm

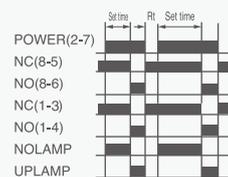
Time range

0.1S~99H

Wiring diagram

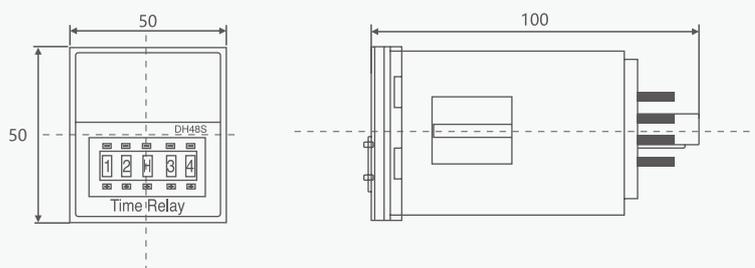


DH48S-S Circuit Diagram



DH48S-S DelayW aveform

Overall and mounting dimensions(mm)



Relay

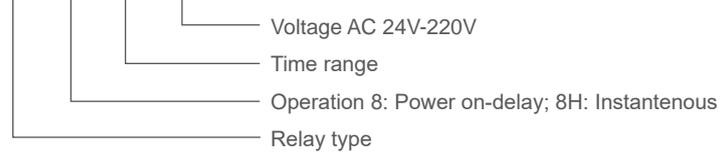
H3BA-8 Time Relay



H3BA-8 (ST4P)

Type designation

H3BA - 8 - 10S AC220V



Technical data

Item No.	Data
Voltage	DC12V-48V AC24V-415V 50HZ
Power Consumption	DC1.0W AC1.0VA
Control Output	5A 220V AC
Insulation Resistance	DC500V 100MΩ
Dielectric Strength	BCC1500VAC BOC1000VAC
Operating Temperature	-10°C~50°C
Humidity	35%~85%
Life	Mech:10 ⁷ Elec:10 ³
Weight	≈170g
Installing Hole Size	45x45mm



PF083A

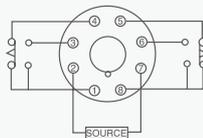


PF083A-E

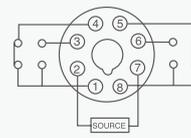
Time range

Time units Rated units	Second	Minute	Hour	10 Hour
	05.		0.05-0.4	
1.0		0.1-5		1-10h
5.0		0.5-5		5-50h
10		1-10		10-100h

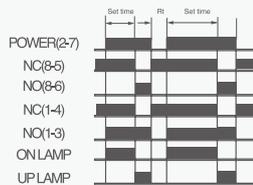
Wiring diagram



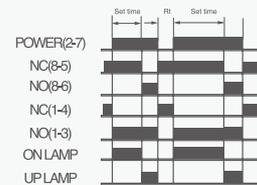
H3BA-8 Circuit Diagram



H3BA-8H Circuit Diagram

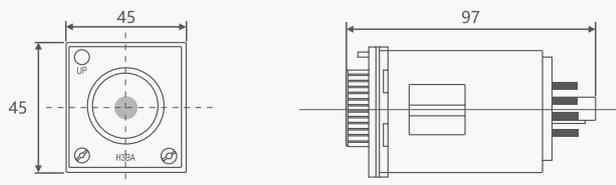


H3BA-8 Delay Waveform



H3BA-8H Delay Waveform

Overall and mounting dimensions(mm)



Relay

H3BA-11A Time Relay



H3BA-11A



PF113A



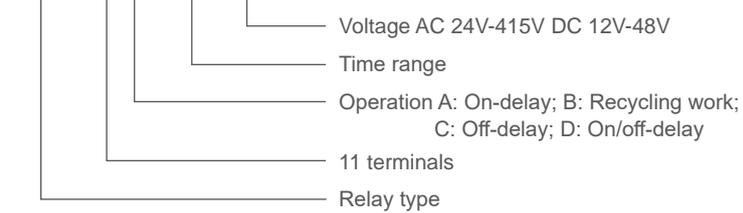
PF113A-E

General

Used for control of time order. With front-surface and back-surface connecting sockets LED pilot, display action state.

Type designation

H3BA - 11 A - 10S AC220V



Technical data

Item No.	Data
Voltage	DC12V-48V AC24V-415V 50HZ
Power Consumption	DC1.0W AC1.0VA
Control Output	5A 220V AC
Insulation Resistance	DC500V 100MΩ
Dielectric Strength	BCC1500VAC BOC1000VAC
Operating Temperature	-10°C~50°C
Humidity	35%~85%
Life	Mech:10 ⁷ Elec:10 ³
Weight	≈170g
Installing Hole Size	45×45mm



Time range

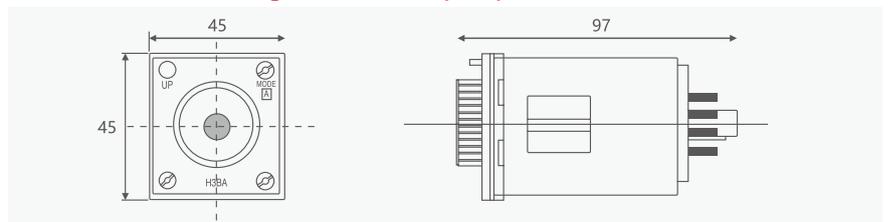
Time units \ Rated units	Second	Minute	Hour	10 Hour
	05.		0.05-0.4	
1.0		0.1-5		1-10h
5.0		0.5-5		5-50h
10		1-10		10-100h

Wiring diagram

H3BA-A Circuit Diagram

H3BA-A Delay Waveform

Overall and mounting dimensions(mm)



Relay

H3CR-A8 Time Relay

General

Used for control of time order. With front-surface and back-surface connecting sockets LED pilot, display action state.

Type designation

H3CR - A8 AC220V

Voltage 12V-48V AC/DC; 24V-220V AC/DC

Operation A: Power on-delay; E: Power on interval

Relay type



H3CR-A8



PF083A



PF083A-E

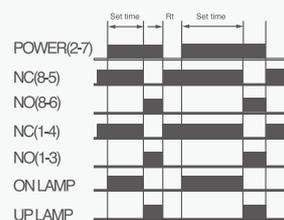
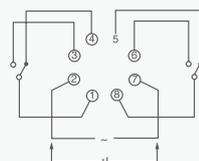
Technical data

Item No.	Data
Voltage	DC12V-48V AC24V-220V 50HZ
Power Consumption	DC1.0W AC1.0VA
Control Output	5A 220V AC
Insulation Resistance	DC500V 100MΩ
Dielectric Strength	BCC1500VAC BOC1000VAC
Operating Temperature	-10°C~50°C
Humidity	35%~85%
Life	Mech:10 ⁷ Elec:10 ³
Weight	≈160g
Installing Hole Size	45x45mm

Time range

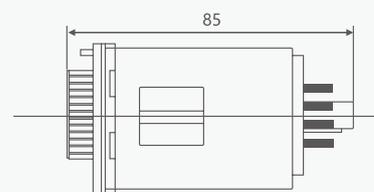
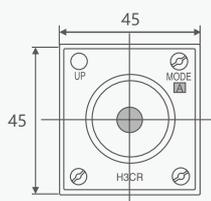
0.05S-300H

Wiring diagram



H3CR-A8 Delay Waveform

Overall and mounting dimensions(mm)



Relay

ST3PA,ST3PC Time Relay

General

Used for control of time order. With front-surface and back-surface connecting sockets LED pilot, display action state.



ST3PA, ST3PC



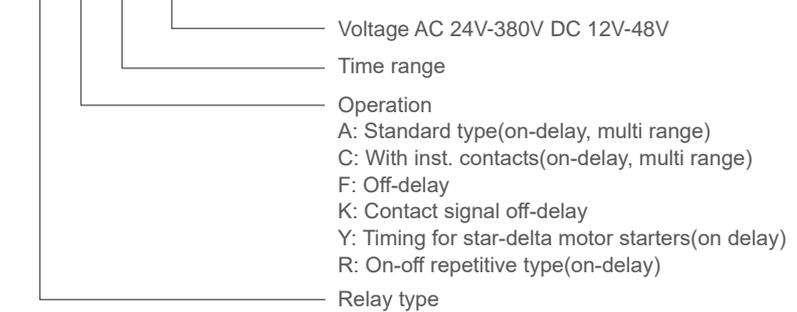
PYP14A



PF083A-E

Type designation

ST3P A - A AC220V



Technical data

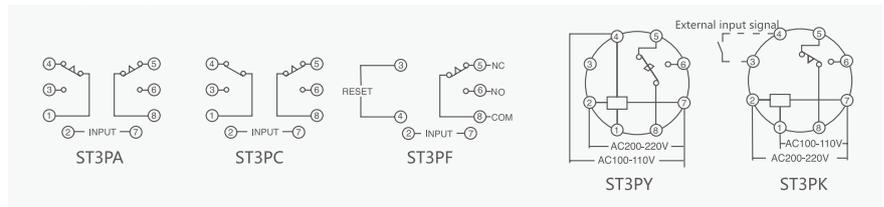
Item No.	Data
Voltage	DC12V-48V AC24V-380V 50HZ
Power Consumption	DC1.0W AC1.0VA
Control Output	5A 220V AC
Insulation Resistance	DC500V 100MΩ
Dielectric Strength	BCC1500VAC BOC1000VAC
Operating Temperature	-10°C~50°C
Humidity	35%~85%
Life	Mech:10 ⁷ Elec:10 ³
Weight	≈50g
Installing Hole Size	40x50mm



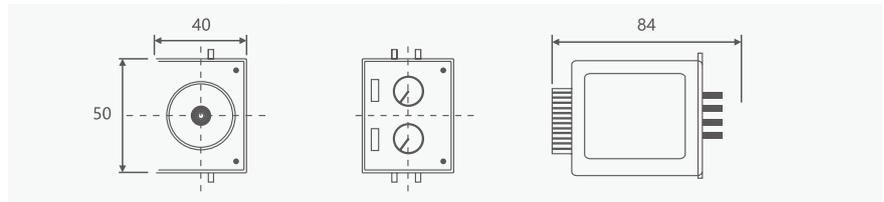
Time range

Switch position	1		2		3		4	
	1	2	1	2	1	2	1	2
Delay categories								
A	0.05-0.5s		0.05-5s		2.5-30s		0.25-3m	
B	0.1-1s		0.1-10s		5-60s		0.5-6m	
C	0.5-5s		5-50s		0.5-5m		2.5-30m	
D	1-10s		10-100s		1-10m		5-60m	
E	5-60s		1-10m		5-60m		0.5-6h	
F	0.25-2m		2.5-20m		0.25-2h		1-12h	
G	0.5-4m		5-40m		0.5-4h		2-24h	

Wiring diagram



Overall and mounting dimensions(mm)



Relay

H3Y-4 Time Relay

General

Used for control of time order. With front-surface and back-surface connecting sockets LED pilot, display action state.



H3Y-4 (ST6P)



PYF14A



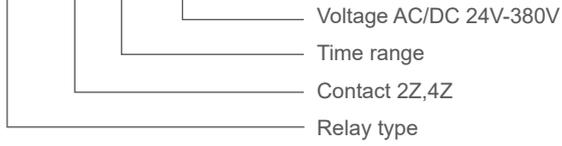
PYF14A-E



PY-14A

Type designation

H3Y - 2/4 10S AC220V



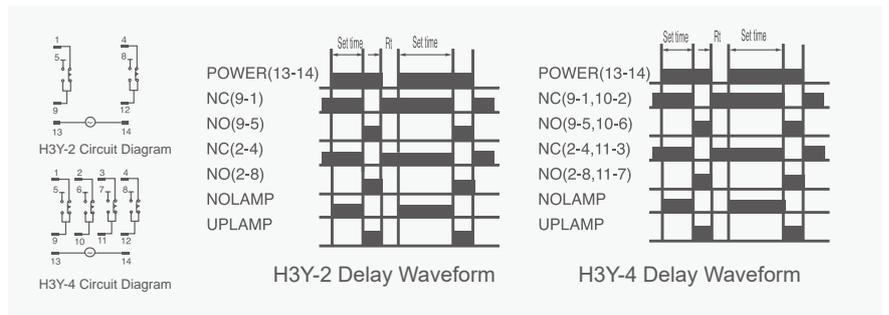
Technical data

Item No.	Data
Voltage	DC12V-48V AC24V-380V 50HZ
Power Consumption	DC1.0W AC1.0VA
Control Output	2Z 5A220VAC 4Z 3A220VAC
Insulation Resistance	DC500V 100MΩ
Dielectric Strength	BCC1500VAC BOC1000VAC
Operating Temperature	-10°C~50°C
Humidity	35%~85%
Life	Mech:10 ⁷ Elec:10 ³
Weight	≈50g
Installing Hole Size	22x28mm

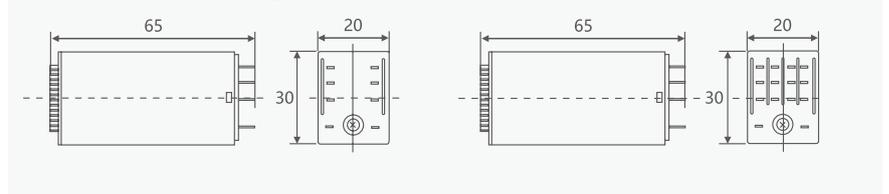
Time range

Rated time	Time range	Rated time	Time range
0.5s	0.05S~0.5S	3m	0.05m~0.5m
1s	0.1S~1S	1m	0.1m~1m
5s	0.5S~5S	5m	0.5m~5m
10s	0.5S~10S	10m	0.5m~10m
30s	1.0S~30S	30m	1m~30m
60s	2.0S~60S	60m	2m~60S
120s	5.0S~120S	120m	0.1h~3h

Wiring diagram



Overall and mounting dimensions(mm)



D

Relay

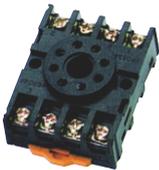
TH3A-YA Time Relay

General

Used for control of time order. With front-surface and back-surface connecting sockets LED pilot, display action state.



TH3A-YA



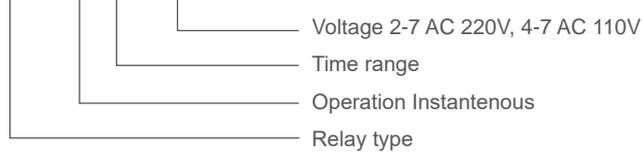
PF083A



PF083A-E

Type designation

TH3A - YA 6S AC220V



Technical data

Item No.	Data
Voltage	2-7 AC220V, 4-7 AC110V
Power Consumption	DC1.0W AC1.0VA
Control Output	5A 220V AC
Insulation Resistance	DC500V 100MΩ
Dielectric Strength	BCC1500VAC BOC1000VAC
Operating Temperature	-10°C~50°C
Humidity	35%~85%
Life	Mech:10 ⁷ Elec:10 ³
Weight	≈160g
Installing Hole Size	40x50mm

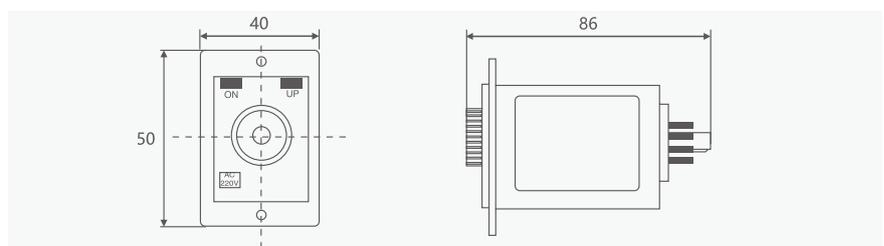
Time range

Rated time	Time range	Rated time	Time range
1s	0.1S~1S	6m	0.3m~6m
2s	0.1S~2S	12m	0.6m~12m
3s	0.1S~3S	30m	1m~30m
6s	0.2S~6S	60m	2m~60m
12s	0.6S~12S	3h	0.1h~3h
60s	2.0S~60S	6h	0.2~6h
2m	5.0S~2m	10h	0.25~10h
3m	0.1m~3m	24h	0.8~24h

Wiring diagram



Overall and mounting dimensions(mm)



Relay

AH3-3 Time Relay

General

Used for control of time order. With front-surface and back-surface connecting sockets LED pilot, display action state.



AH3-3



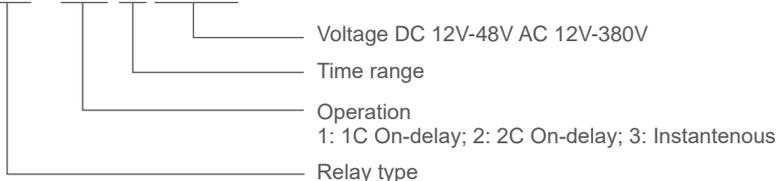
PF083A



PF083A-E

Type designation

AH3 - 1/2/3 6S AC220V



Technical data

Item No.	Data
Voltage	DC12V-48V AC12V-380V50HZ
Power Consumption	DC1.0W AC1.0VA
Control Output	5A 220V AC
Insulation Resistance	DC500V 100MΩ
Dielectric Strength	BCC1500VAC BOC1000VAC
Operating Temperature	-10°C~50°C
Humidity	35%~85%
Life	Mech:10 ⁷ Elec:10 ³
Weight	≈160g
Installing Hole Size	40x50mm

Time range

Rated time	Time range	Rated time	Time range
1s	0.1S~1S	6m	0.3m~6m
2s	0.1S~2S	12m	0.6m~12m
3s	0.1S~3S	30m	1m~30m
6s	0.2S~6S	60m	2m~60m
10s	0.6S~10S	3h	0.1h~3h
30s	1.0S~30S	6h	0.2~6h
60s	2.0S~60S	10h	0.25~10h
2m	5.0S~2m	24h	0.8~24h
3m	0.1m~3m	30h	1~30h

Wiring diagram

AH3-1 Circuit Diagram

AH3-2 Circuit Diagram

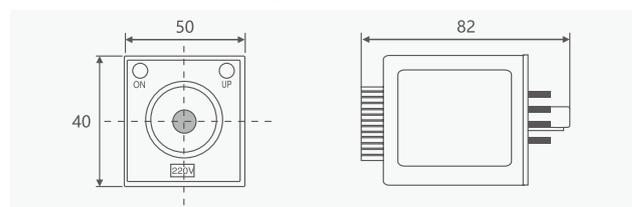
AH3-3 Circuit Diagram

AH3-1 Delay Waveform

AH3-2 Delay Waveform

AH3-3 Delay Waveform

Overall and mounting dimensions(mm)



Relay

AH3-B Time Relay

General

It's used to definite time.It contains front-surface,back-surface, connecting sockets,LED indicator and action display interface.



AH3-B



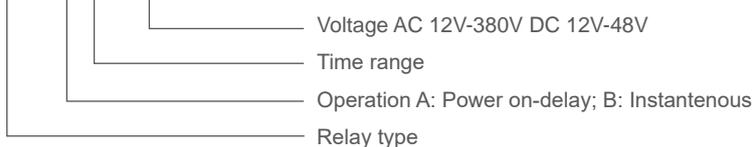
PF083A



PF083A-E

Type designation

AH3 - N B AC220V



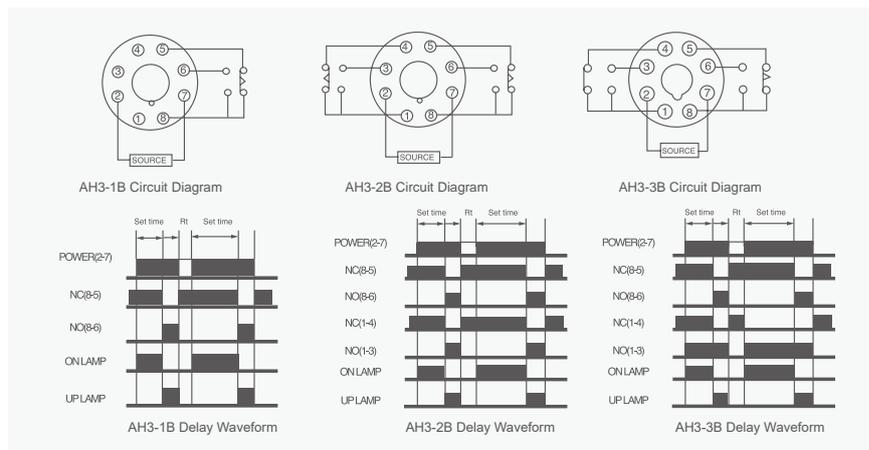
Technical data

Item No.	Data
Voltage	DC12V-48V AC12V-380V50HZ
Power Consumption	DC1.0W AC1.0VA
Control Output	5A 220V AC
Insulation Resistance	DC500V 100MΩ
Dielectric Strength	BCC1500VAC BOC1000VAC
Operating Temperature	-10°C~50°C
Humidity	35%~85%
Life	Mech:10 ⁷ Elec:10 ³
Weight	≈100g
Installing Hole Size	50×40mm

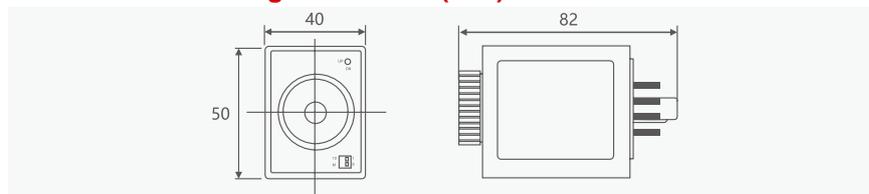
Time range

AH3-A	1S~10M
AH3-B	3S~30M
AH3-C	6S~60M
AH3-D	1M~10H
AH3-E	3M~30H

Wiring diagram



Overall and mounting dimensions(mm)



D

Relay

AH3-NB Time Relay

General

It's used to definite time.It contains front-surface,back-surface, connecting sockets,LED indicator and action display interface.



AH3-NB



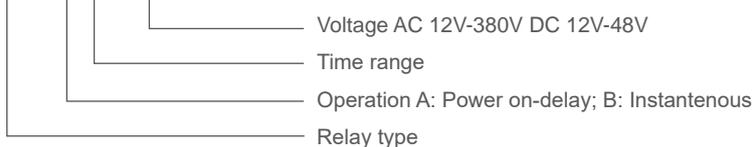
PF083A



PF083A-E

Type designation

AH3 - N B AC220V



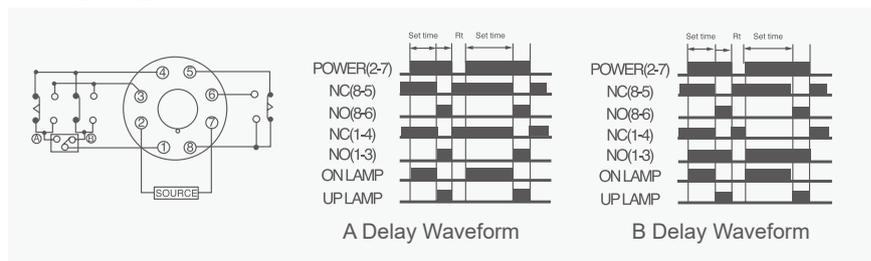
Technical data

Item No.	Data
Voltage	DC12V-48V AC12V-380V 50HZ
Power Consumption	DC1.0W AC1.0VA
Control Output	5A 220V AC
Insulation Resistance	DC500V 100MΩ
Dielectric Strength	BCC1500VAC BOC1000VAC
Operating Temperature	-10°C~50°C
Humidity	35%~85%
Life	Mech:10 ⁷ Elec:10 ³
Weight	≈100g
Installing Hole Size	50×40mm

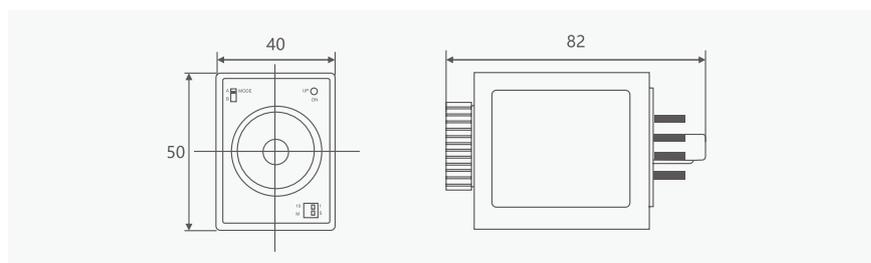
Time range

AH3-NA	1S,1M,10S,10M
AH3-NB	3S,3M,30S,30M
AH3-NC	6M,6M,60S,60M
AH3-ND	1M,10M,1H,10H
AH3-NE	3M,30M,3H,30H

Wiring diagram



Overall and mounting dimensions(mm)



Relay

ATDV-Y Time Relay

General

Used for control of time order. With front-surface and back-surface connecting sockets LED pilot, display action state.



ATDV-Y



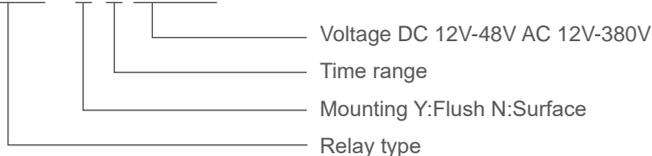
PF083A



PF083A-E

Type designation

ATDV - Y 01 AC220V



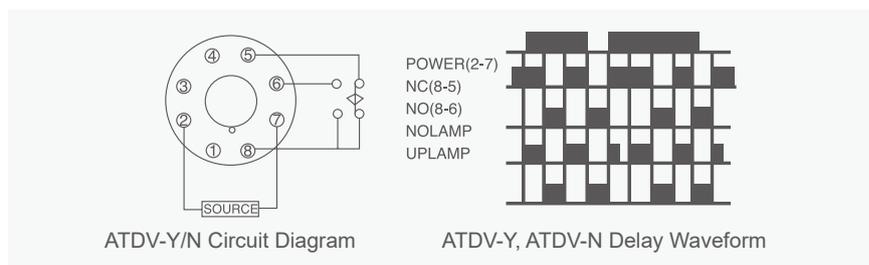
Technical data

Item No.	Data
Voltage	DC12V-48V AC12V-380V 50HZ
Power Consumption	DC1.0W AC1.0VA
Control Output	5A 220V AC
Insulation Resistance	DC500V 100MΩ
Dielectric Strength	BCC1500VAC BOC1000VAC
Operating Temperature	-10°C~50°C
Humidity	35%~85%
Life	Mech:10 ⁷ Elec:10 ³
Weight	≈210g
Installing Hole Size	50×62mm

Time range

Type	Time range	Type	Time range
ATDV-Y/N-01	6S*6S	ATDV-Y/N-05	6M*6M
ATDV-Y/N-02	6S*60S	ATDV-Y/N-06	6M*60M
ATDV-Y/N-03	60S*6S	ATDV-Y/N-07	60M*6M
ATDV-Y/N-04	60S*60S	ATDV-Y/N-08	60M*60M

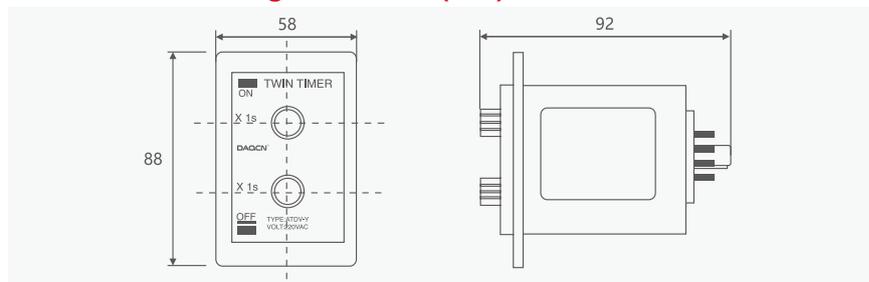
Wiring diagram



ATDV-Y/N Circuit Diagram

ATDV-Y, ATDV-N Delay Waveform

Overall and mounting dimensions(mm)



Relay

AH2-N Time Relay

General

Used for control of time order. With front-surface and back-surface connecting sockets LED pilot, display action state.



AH2-N



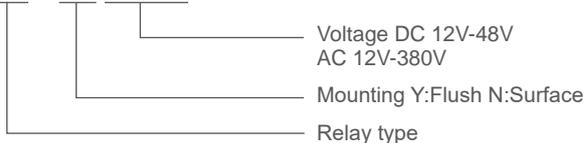
PF083A



PF083A-E

Type designation

AH2 - N/Y AC220V



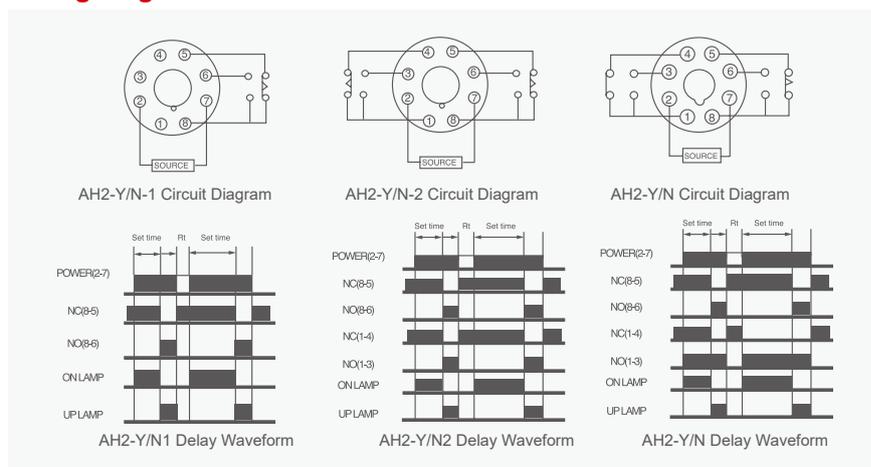
Technical data

Item No.	Data
Voltage	DC12V-48V AC12V-380V 50HZ
Power Consumption	DC1.0W AC1.0VA
Control Output	5A 220V AC
Insulation Resistance	DC500V 100MΩ
Dielectric Strength	BCC1500VAC BOC1000VAC
Operating Temperature	-10°C~50°C
Humidity	35%~85%
Life	Mech:10 ⁷ Elec:10 ³
Weight	≈210g
Installing Hole Size	50×62mm

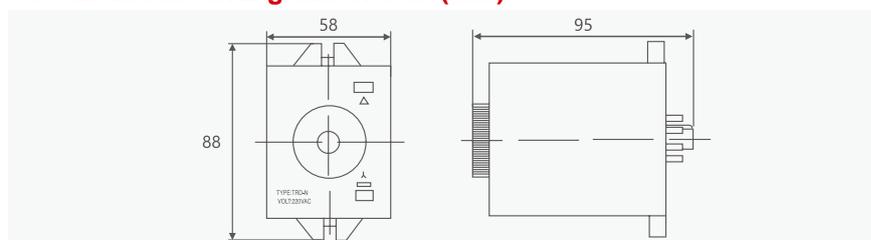
Time range

Unit	Time range
S	1S,3S,6S,12S,30S,60S
M	3M,6M,12M,30M,60M
H	3H,6H,12H,24H

Wiring diagram



Overall and mounting dimensions(mm)



Relay

ASTP-Y Time Relay

General

Used for control of time order. With front-surface and back-surface connecting sockets LED pilot, display action state.



ASTP-Y



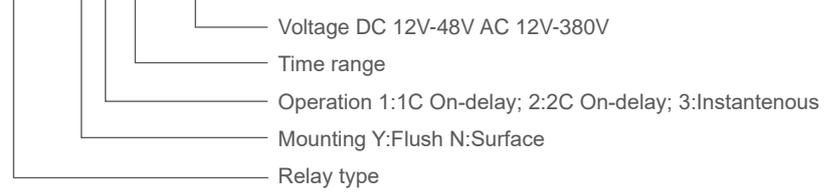
PF083A



PF083A-E

Type designation

ASTP - Y 2 6S AC220V



Technical data

Item No.	Data
Voltage	DC12V-48V AC12V-380V 50HZ
Power Consumption	DC1.0W AC1.0VA
Control Output	5A 220V AC
Insulation Resistance	DC500V 100MΩ
Dielectric Strength	BCC1500VAC BOC1000VAC
Operating Temperature	-10°C~50°C
Humidity	35%~85%
Life	Mech:10 ⁷ Elec:10 ³
Weight	≈220g
Installing Hole Size	50×62mm

Time range

Rated time	Time range	Rated time	Time range
1s	0.1s~1s	3m	0.1m~3m
2s	0.1s~2s	6m	0.3m~6m
3s	0.1s~3s	12m	0.6m~12m
6s	0.2s~6s	30m	1m~30m
12s	0.6s~12s	60m	2m~60S
60s	2.0s~60s	3h	0.1h~3h
2m	5.0s~1m	6h	0.2h~6h

Wiring diagram

Overall and mounting dimensions(mm)

D

Relay

ASY-3D Time Relay

General

This is the time relay for timing control; the device pulls switch, multiple selection modes and lightweight design.



ASY-3D



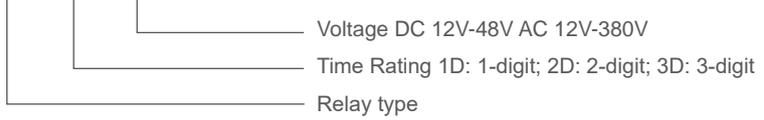
PF083A



PF083A-E

Type designation

ASY - 3D AC220V



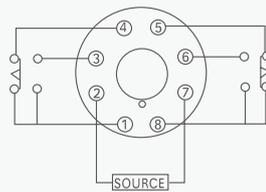
Technical data

Item No.	Data
Voltage	DC12V-48V AC12V-380V 50HZ
Power Consumption	DC1.0W AC1.0VA
Control Output	5A 220V AC
Insulation Resistance	DC500V 100MΩ
Dielectric Strength	BCC1500VAC BOC1000VAC
Operating Temperature	-10°C~50°C
Humidity	35%~85%
Life	Mech:10 ⁷ Elec:10 ³
Weight	≈150g
Installing Hole Size	50×62mm

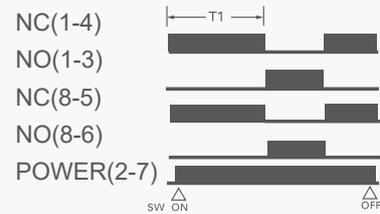
Time range

Unit	Time range
ASY-1D	9S/9M/9H
ASY-2D	9.9S/9.9M/9.9H,99S/99M/99H
ASY-3D	99.9S/99.9M/99.9H,999S/999M/999H

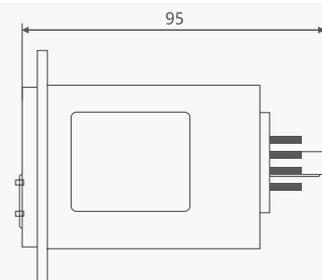
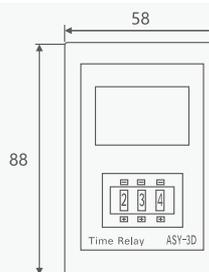
Wiring diagram



ASY Circuit Diagram



Overall and mounting dimensions(mm)



Relay

ST2P-Y Time Relay

General

Used for control of time order. With front-surface and back-surface connecting sockets LED pilot, display action state.



ST2P-E

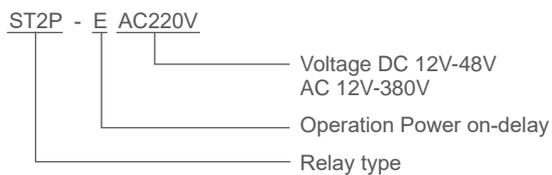


PF083A



PF083A-E

Type designation



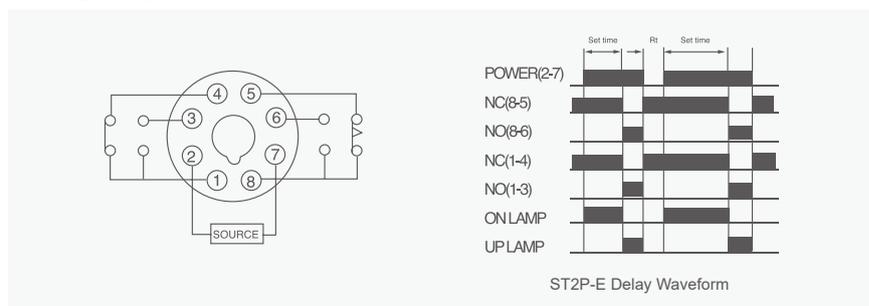
Technical data

Item No.	Data
Voltage	DC12V-48V AC12V-380V 50HZ
Power Consumption	DC1.0W AC1.0VA
Control Output	5A 220V AC
Insulation Resistance	DC500V 100MΩ
Dielectric Strength	BCC1500VAC BOC1000VAC
Operating Temperature	-10°C~50°C
Humidity	35%~85%
Life	Mech:10 ⁷ Elec:10 ³
Weight	≈50g
Installing Hole Size	40x50mm

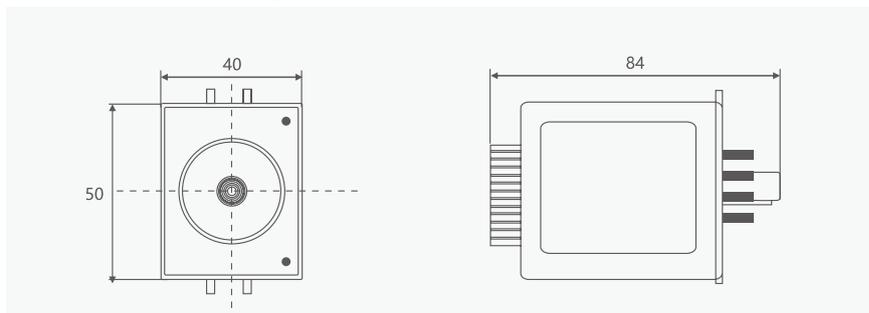
Time range

Unit	Time range
S	1S,2S,3S,6S,12S,30S,60S
M	2M,3M,5M,6M,12M,30M,60M
H	3H,6H,12H,24H

Wiring diagram



Overall and mounting dimensions(mm)



Relay

THC810 Editable timer switch



General

THC810 There are functions such adjust the time and countdown. Suitable for street lights, neon lights, advertising signs, radio and television equipment, and various household appliances.

Standard: IEC 60947-4-1

Type designation

THC-810 16A AC220-240V

Company code	Current	Voltage
THC-810	16	AC220-240V
Company code 810: Single channel (one group auxiliary) without pulse and cycling function. 811: Single channel (one group auxiliary) with pulse and cycling function. 812: Dual channel (two groups auxiliary) without pulse and cycling function. 822: Dual channel (two groups auxiliary) with pulse and cycling function.	16:16A 20:20A 25:25A 30:30A	AC220-240V AC110V AC85-240V DC/AC12V DC/AC24V DC/AC24-240V AC250V

Operating condition

1. Ambient temperature: $-10^{\circ}\text{C} \sim +50^{\circ}\text{C}$
2. Relative humidity: $\leq 20\%$ at 40°C ; $\leq 90\%$ at 20°C
3. Altitude: $\leq 2000\text{m}$
4. Environmental conditions: no harmful gases and vapors, no conductive or explosive dust, no severe mechanical vibration

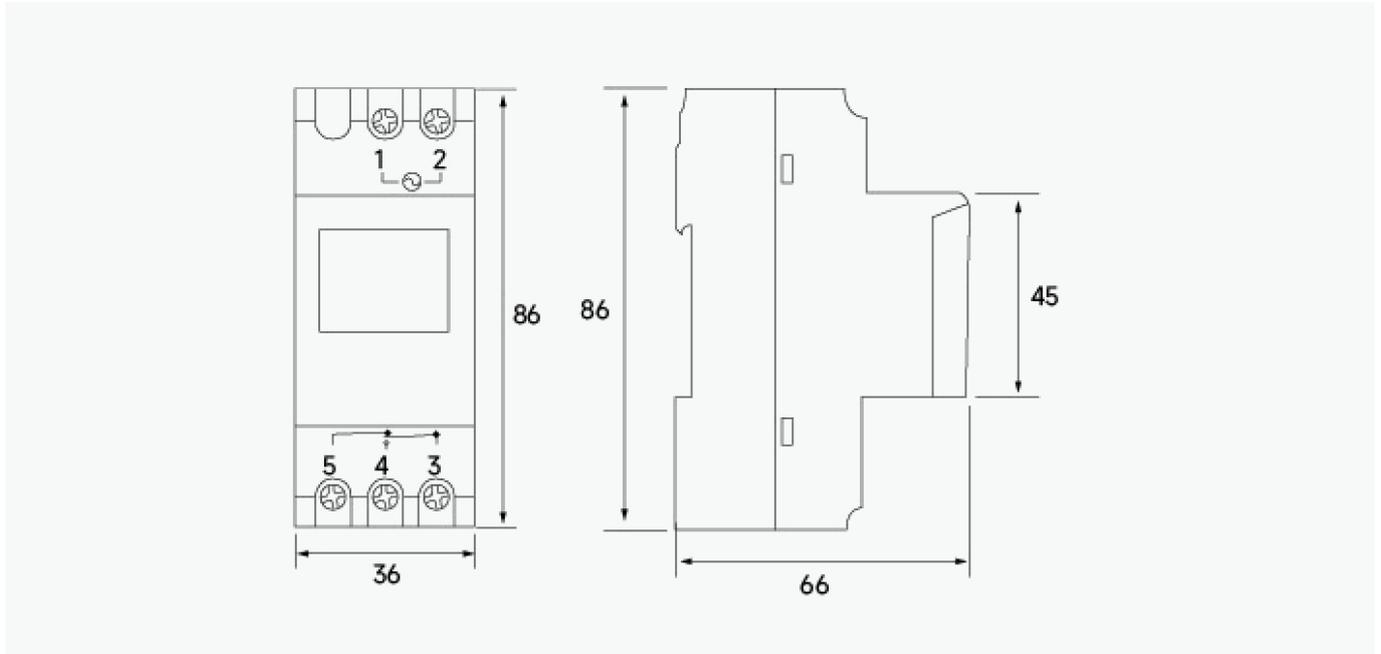
Technical data

Item No.	THC810 16A,20A,25A,30A	
Dimensions(mm)	86x36x66	
Full Timing Range	24h 7days	
Rated Voltage	AC 220-240V, AC110V, AC85-240V	
Contact Capacity	AC/DC12V, AC/DC24V, AC/DC24-240V	
Contact Form	1 changeover switch	
Accuracy	$\leq 2\text{s/d}(25^{\circ}\text{C})$	
Display	LCD	
Mounting Form	DIN PAIL	
Life	Electrical	$> 10^5$ tims
	Mechanical	$> 10^7$ tims
Ambient Temperature	$-10^{\circ}\text{C} \sim +50^{\circ}\text{C}$	
Min.switching time	1 min	
Programmable	96ON/OFF	
Storage Battery	3 YEARS	
Consumed power	4VA	
QTY	100PCS	
G.W	18kg	
N.W	17kg	
MEAS	390x220x375mm	

Relay

THC810 Editable timer switch

Overall and mounting dimensions(mm)



D

Relay

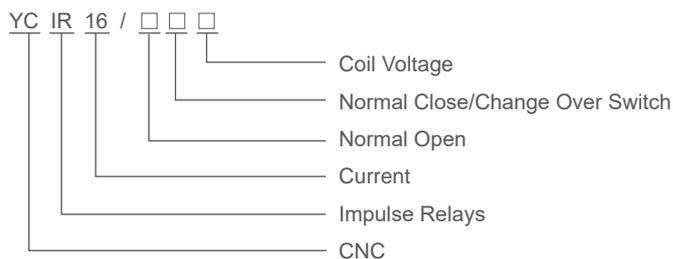
YCIR Impulse Relay



General

YCIR series impulse relay is a mechanical bistable relay that changes the contact state by inputting pulse signals. Contact switching current is up to 16A; a complete range of AC/DC specifications.

Type designation



eg. YCIR-16/10 DC12V, It is 16A, 1NO, 12V DC current coil voltage

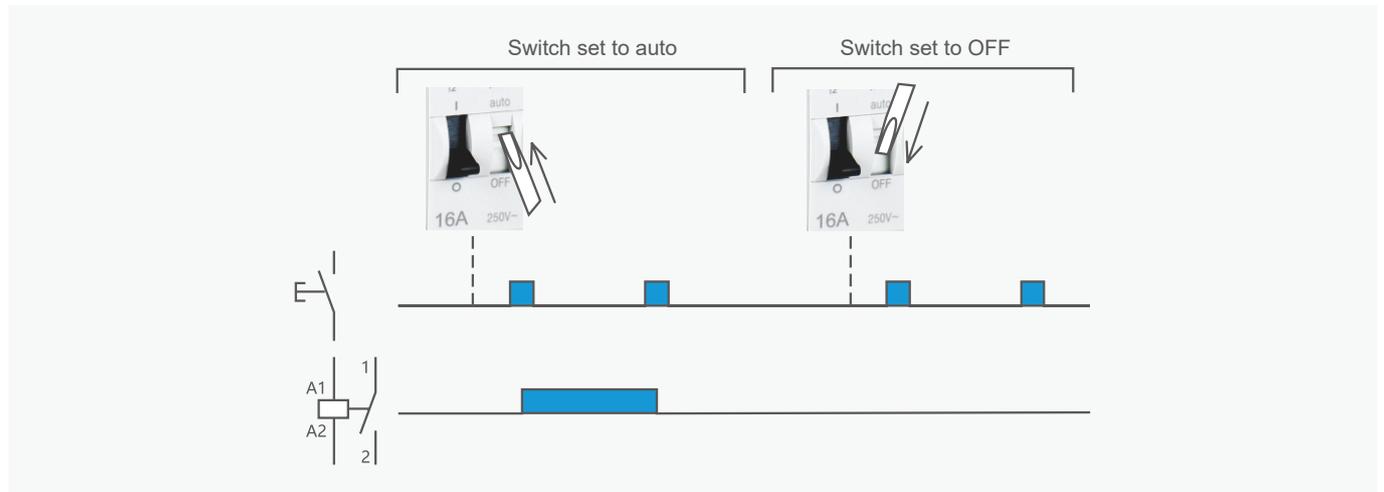
Technical data

Type	Data	
Dissipated power (during the impulse)	19 VA	
Illuminated PB control	Max. current 3 mA	
Operating threshold	Min. 85 % of Un	
Duration of the control order	50 ms to 1 s (200 ms recommended)	
Response time	50ms	
Voltage rating(Ue)	250V AC	
Rated dc current	16A	
Frequency	50/60Hz	
Control voltage(V)	AC24V/DC12V, AC48V/DC24V, AC110V/DC48V, AC230V/DC110V	
Maximum number of operations per minute	5	
Maximum number of switching operation a day	100	
Endurance	200,000 cycles(AC21), 100,000 cycles(AC22)	
Overvoltage category	IV	
Insulation voltage(Ui)	440 V AC	
Pollution degree	3	
Rated impulse withstand voltage(Uimp)	6kV	
Degree of protection (IEC 60529)	Device only	IP20
	Device in modular	Ip40 (Insulation class II)
Operating temperature	-5°C~+60°C	
Storage temperature	-40°C~+70°C	
Tropicalization(IEC 60068.1)	Treatment 2 (relative humidity 95 % at 55°C)	

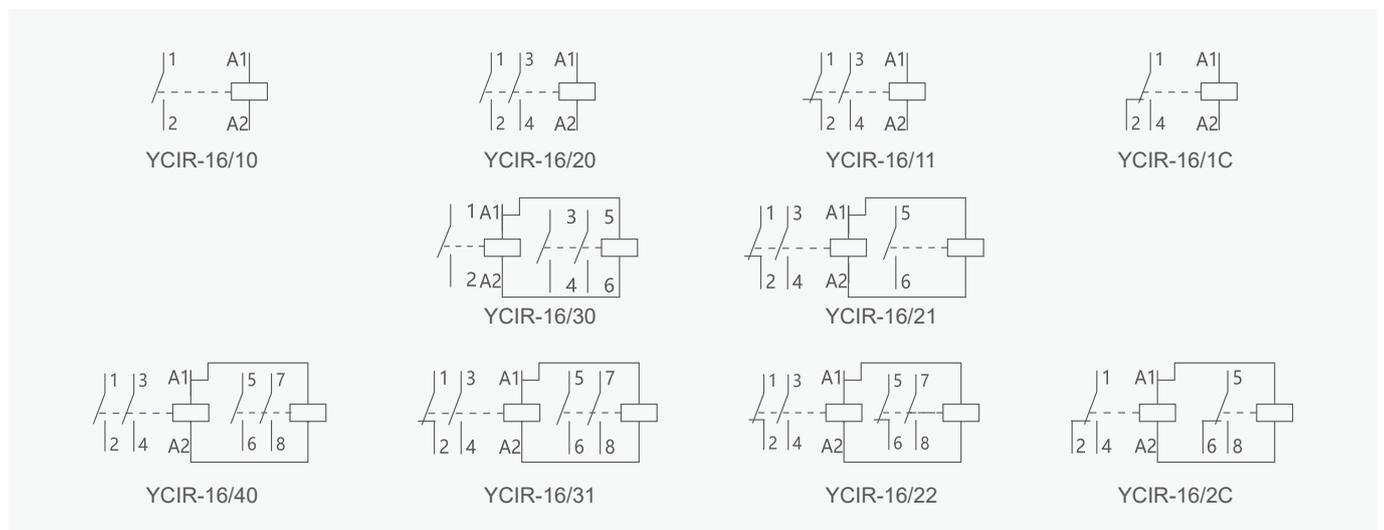
Relay

YCIR Impulse Relay

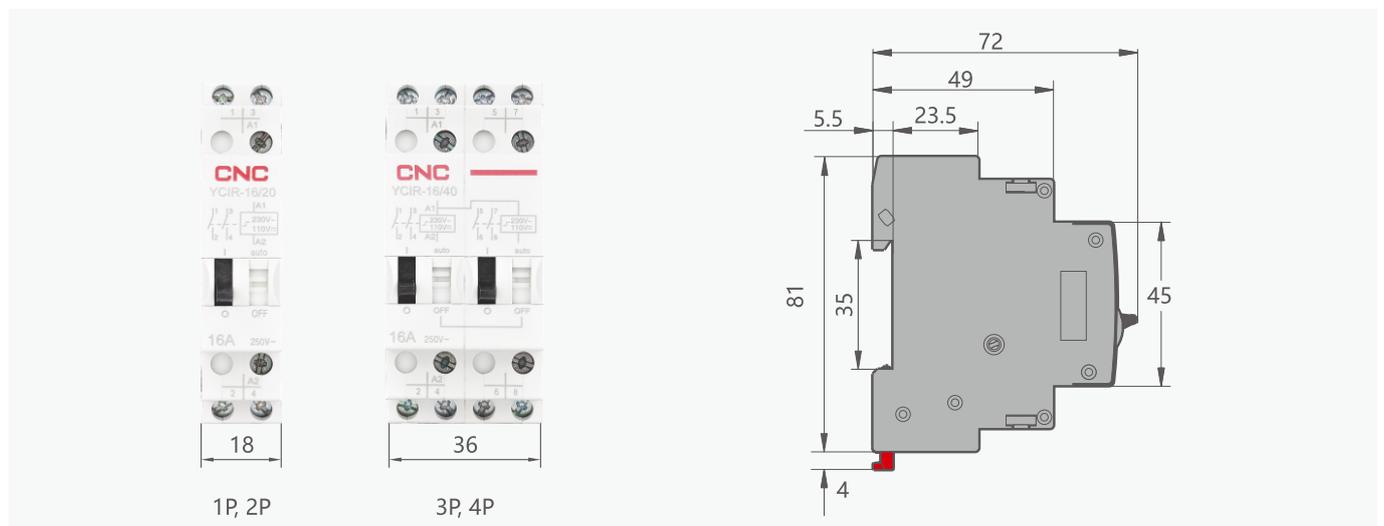
Operation



Wiring diagram

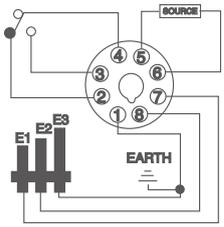
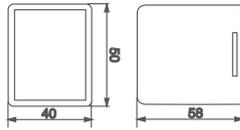
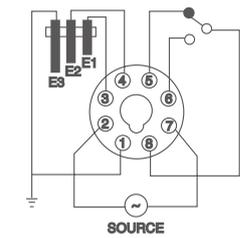
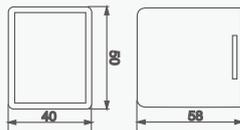
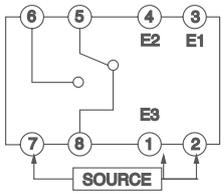
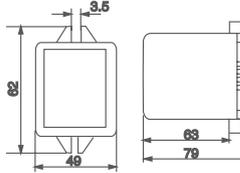


Overall and mounting dimensions(mm)



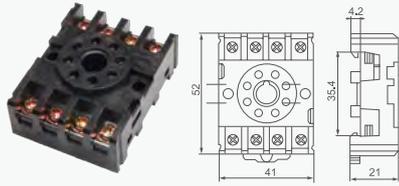
Relay Floatless Controller

D

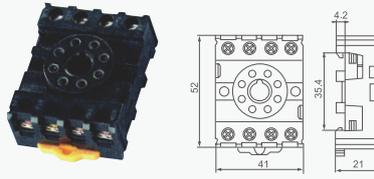
 <p>AFS-GR</p>  <p>PF083A PF083A-E</p>	<p>Wiring diagram</p> 	<p>Voltage</p> <p>Contact</p> <p>Operating temperature</p> <p>Technical parameter</p> <p>External dimension (mm)</p>	<p>AC 24~380V DC24V</p> <p>1C SPDT</p> <p>-25 to 40°C</p> <p>Out put DC12V DC24V Amps DC15mA</p> <p>40x50x58</p>	<p>Overall and mounting dimensions(mm)</p> 
 <p>61F-GP</p>  <p>PF083A PF083A-E</p>	<p>Wiring diagram</p> 	<p>Voltage</p> <p>Contact</p> <p>Operating temperature</p> <p>Technical parameter</p> <p>External dimension (mm)</p>	<p>AC 24~380V DC24V</p> <p>1C SPDT</p> <p>-25 to 40°C</p> <p>Out put DC12V DC24V Amps DC15mA</p> <p>40x50x70</p>	<p>Overall and mounting dimensions(mm)</p> 
 <p>AFR-1</p>  <p>PF083A PF083A-E</p>	<p>Wiring diagram</p> 	<p>Voltage</p> <p>Contact</p> <p>Operating temperature</p> <p>Technical parameter</p> <p>External dimension (mm)</p>	<p>AC 24~380V DC24V</p> <p>1C SPDT</p> <p>-25 to 40°C</p> <p>Out put DC12V DC24V Amps DC15mA</p> <p>49x80x79</p>	<p>Overall and mounting dimensions(mm)</p> 

Relay

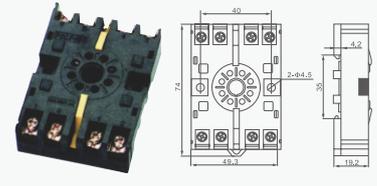
Relay Socket



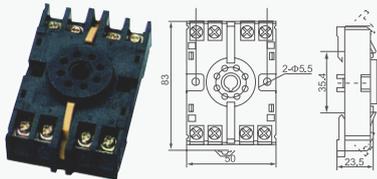
PF083A



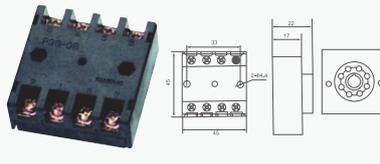
PF083A-E



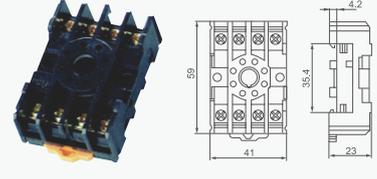
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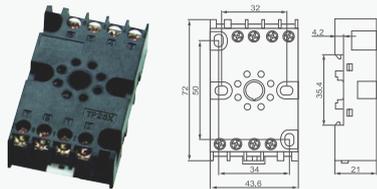
8PFA



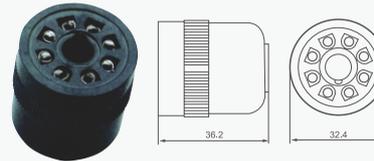
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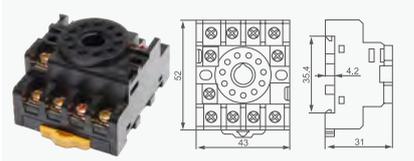
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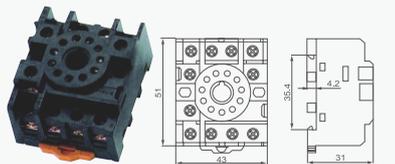
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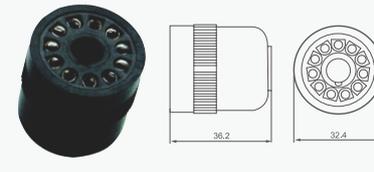
US-08



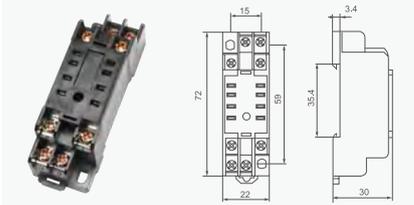
PF113A



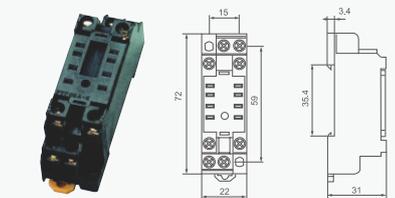
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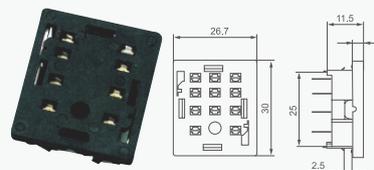
US-11



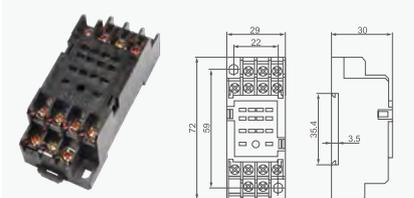
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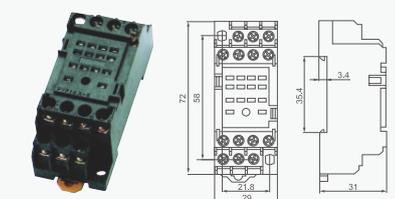
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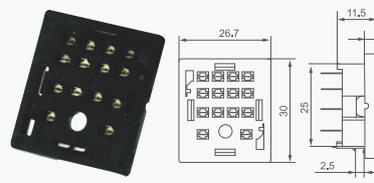
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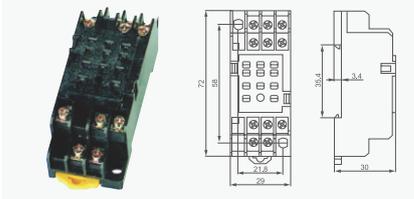
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PYF14A-E



PY-14A



PYF11A



