



NE35 系列继电器

NE35 Series Relay

Typical application

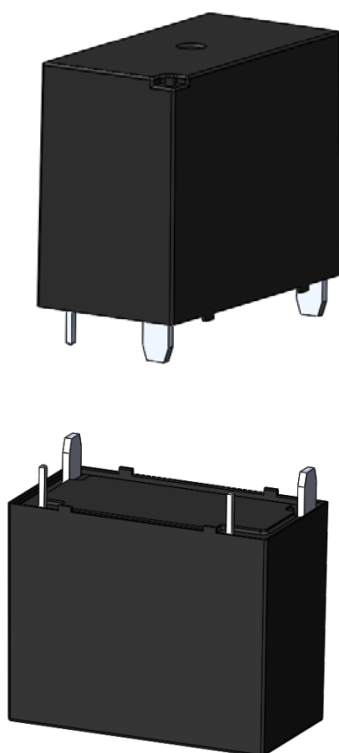
charging pile

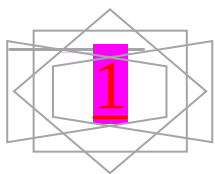
Battery charging system

Solar energy system

Inverter used for photovoltaic power generation

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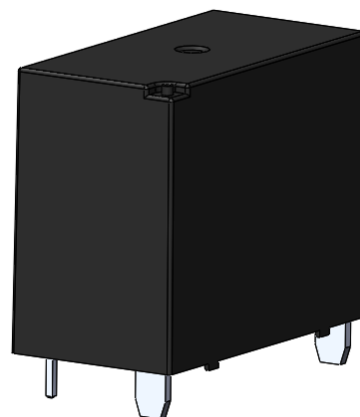
NE35 系列继电器

Charging Relay



NE35 Relay

- Normal Open;
- Contact Gap more than 1.8mm;
- 50A Capability;
- UL Class F Insulation System;
- 4500VAC dielectric strength, Safe and reliable;
- Comply with RoHS Directive.



1. Nomenclature

	NE35	G	T	-S	-DC12V	-A
Model	NE35 Series					
Fire Resistance	Blank: Standard G: Inclusion of GWIT					
Load	Blank: 35A T: 55A					
Enclosure	S: Sealed Type					
Coil Voltage	DC5V; DC9V; DC12V; DC18V; DC24V; DC48V					
Contact Arrangement	A: Normal Open					

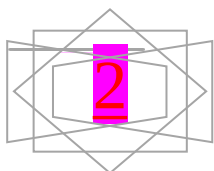
2. Coil Specification

AT: 23°C

Coil Voltage VDC	Coil Resistance $\pm 10\%$ (Ω)	Operate Voltage (VDC)	Holding Voltage (VDC)	Max. Voltage (VDC)	Release Voltage (VDC)	Coil Power (W)
5	18	≤ 3.75	1.75	6	≥ 0.5	1.4W
9	58	≤ 6.75	3.15	10.8	≥ 0.9	
12	103	≤ 9	4.2	14.4	≥ 1.2	
18	230	≤ 13.5	6.3	21.6	≥ 1.8	
24	410	≤ 18	8.4	28.8	≥ 2.4	
48	1646	≤ 36	16.8	57.6	≥ 4.8	

Note:

- 1) The operate voltage and release voltage will be changed with the ambient temperature and use conditions, please note;
- 2) Start-up: in order to make the relay work normally, it is recommended to control the start-up voltage at 100%~120% of rated voltage, and the start-up time is more than 100ms ;
- 3) After starting: in order to reduce the long working heat of the coil, it is recommended to keep the voltage not less than 35% of rated voltage; since the holding voltage is affected by the ambient temperature, the holding voltage shall not be lower than 45% of



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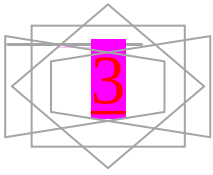
Charging Relay



rated voltage when the external temperature is 85°C;

3. Technical Parameter

Item		Parameter
Contact	Contact arrangement	Normal Open for 1 form
	Contact material	Ag Alloy
	Contact Resistance (initial)	$\leq 100\text{m}\Omega$ (6VDC 1A)
Contact Load	Rated load	GP: 35A 277VAC / 250VAC (NE35) ; GP: 50A 277VAC / 250VAC (NE35T) ; Make 20A, Loading 50A, Break 20A, 277VAC/250VAC (NE35T).
	Max. switching voltage	400VAC
Electrical specification	Insulation Resistance (initial)	Min.1000M Ω (500VDC)
	Dielectric Strength	Between open contacts: 2500VAC, 1min.
		Between contact and coil: 4500VAC, 1min.
	Ari Gap	Between open contacts: $\geq 1.8\text{mm}$
		Between contact and coil: $\geq 6\text{mm}$
	Creepage	Between contact and coil: $\geq 8\text{mm}$
	Operate Time (at 23°C)	Max.20ms
	Release Time (at 23°C)	Max.10ms
Mechanical specification	Shock Resistance	Misoperation : 20G
		Endurance : 100G
	Vibration Resistance	Misoperation : 10~55Hz, 1.5mmdouble amplitude
		Endurance : 10~55Hz, 1.5mmdouble amplitude
Endurance	Electrical Endurance (85°C, 1s on / 9s off)	GP: 35A 277VAC/250VAC, 50000 cycles; GP: 55A 277VAC/250VAC, 50000 cycles; Make 20A, Loading 55A , Break 20A, 277VAC 30000 cycles, 1s on(0.1s 0.8s 0.1s) / 9s off .
	Mechanical Endurance	1000000 cycles
Environments		Temperature: -40°C ~ +85°C; Humidity : 5 ~ 85% R.H(No dew and frost at low temperature)
Weight		NE35: 23g, NE35T: 26g

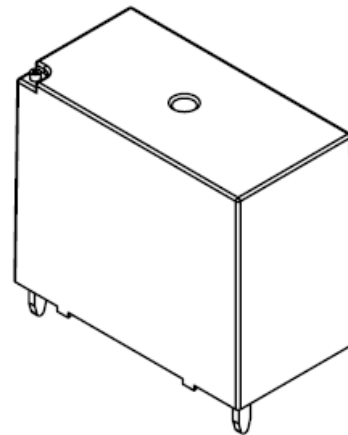
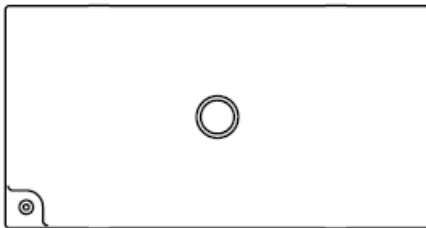
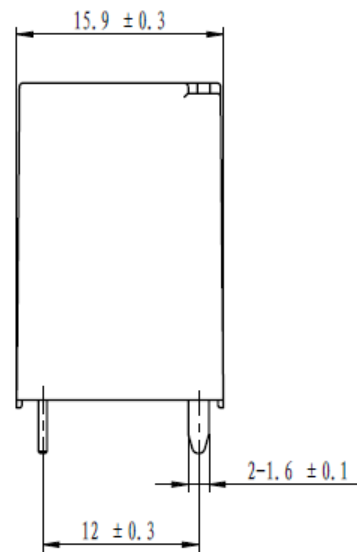
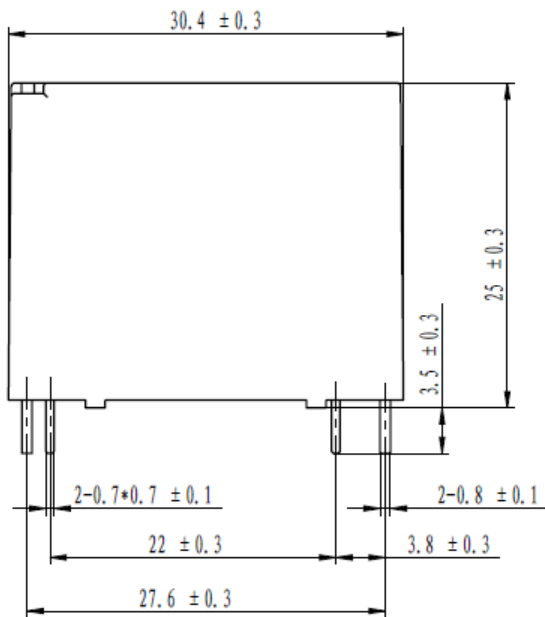


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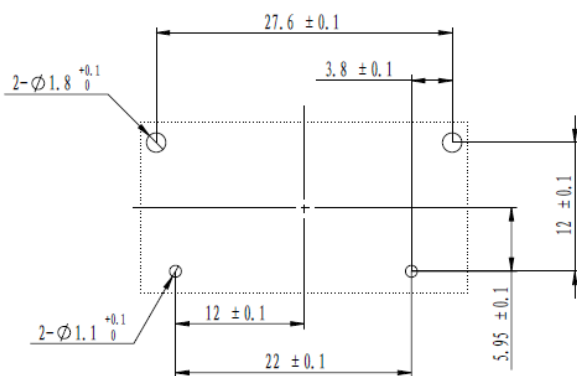
Charging Relay



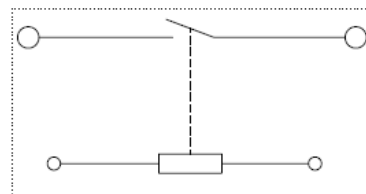
4. Outline Dimension (mm) – NE35

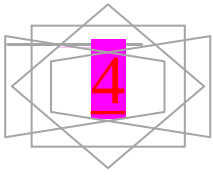


安装孔尺寸
(底视图)



接线图
(底视图)



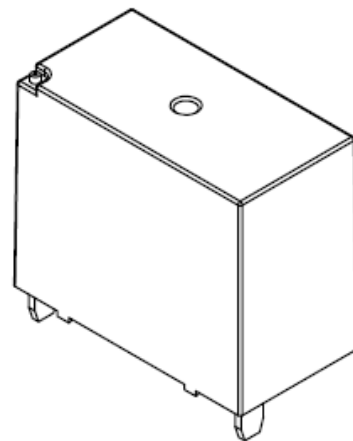
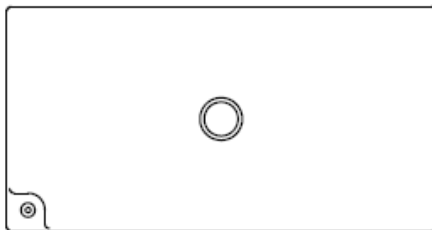
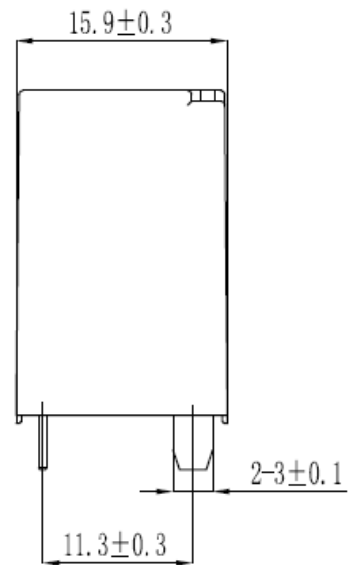
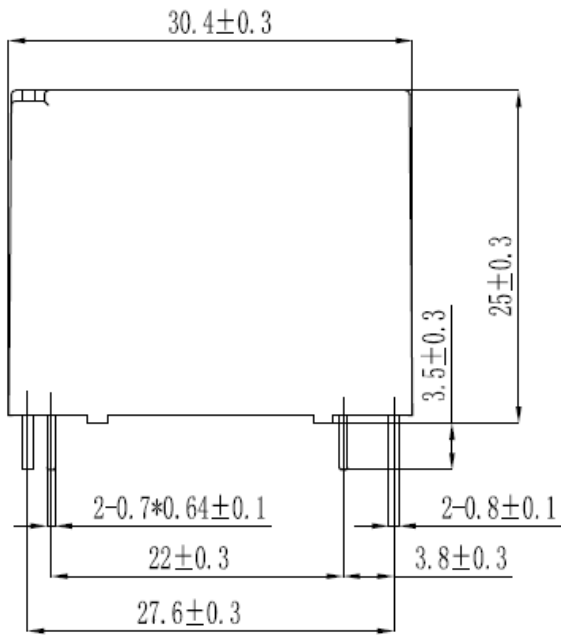


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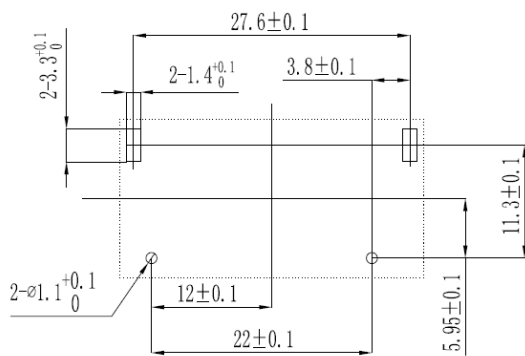
Charging Relay

HKE®

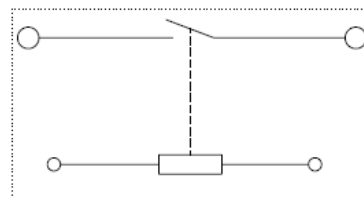
4. Outline Dimension (mm) – NE35T

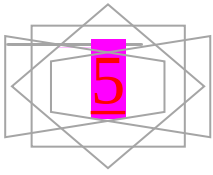


安装孔尺寸
(底视图)



接线图
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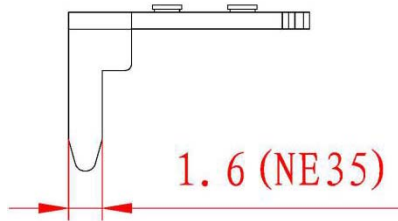


5. The difference between NE35 and NE35T

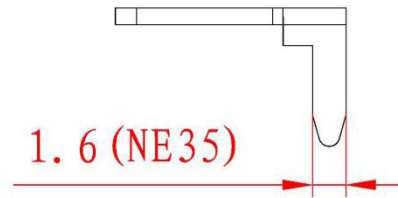
The difference between NE35 and NE35T is the width of contact terminal, the details refer to below:

The width of Stationary Contact Arm and B-Terminal is 1.6 mm for NE35(35A) .

B-Terminal

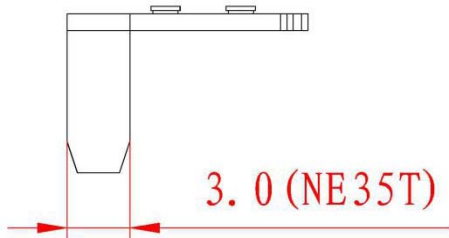


Stationary Contact Arm



The width of Stationary Contact Arm and B-Terminal is 3.0 mm for NE35T(55A) .

B-Terminal



Stationary Contact Arm

