



General Purpose Power Relay

Part No.  
HHC68A

Industrial & Electrical Components



- General purpose power relay
- For plug-in socket, 35mm DIN rail
- UL/C-UL approved.
- LED option

**CONTACT**

|                         |                           |
|-------------------------|---------------------------|
| Arrangement             | 1/2/3/4 A/B/C             |
| Contact Material        | Silver Alloy              |
| Contact Resistive       | Max.: 100 mΩ              |
| Rating                  | 15A 240VAC/28VDC (1C)     |
| Resistive load (cosφ=1) | 10A 240VAC/28VDC (2/3/4C) |
| Max. Switching Voltage  | 277VAC/28VDC              |
| Min. Breaking Capacity  | 0.3W                      |
| Expected life           |                           |
| Mechanical              | 1×10 <sup>7</sup>         |
| Electrical              | 1×10 <sup>5</sup>         |

**CHARACTERISTICS**

|                           |                                |
|---------------------------|--------------------------------|
| Operate Time              | 15msec. Max.                   |
| Release Time              | 10msec. Max.                   |
| Initial breakdown voltage |                                |
| Between Coil & Contact    | 1500VAC (50/60Hz) for 1 min.   |
| Between Open Contacts     | 1000VAC (50/60Hz) for 1 min.   |
| Insulation Resistance     | Min.100MΩ (500 VDC)            |
| Shock: Endurance          | 10G                            |
| Damage                    | 100G                           |
| Vibration Endurance       | 10 to 55Hz, 1.0mm D.A.         |
| Damage                    | 10 to 55Hz, 1.0mm D.A.         |
| Ambient temperature       | -25°C ~ +55°C                  |
| Unit weight               | 35g (1/2C); 50g (3C); 65g (4C) |

**ORDERING INFORMATION**

e.g

**HHC68A - 1C 12D - L**

①            ②            ③            ④

- ① Part No.
- ② Contact arrangement:  
1C=1C/O; 2C=2C/O;  
3C=3C/O; 4C=4C/O;
- ③ Coil Voltage: 12D=12VDC
- ④ L = LED indication

## COIL DATA (at 20°C)

## SPDT, DPDT

| Rated Voltage | Pick-up Voltage<br>VDC (Max) | Drop-out Voltage<br>VDC (Min) | Coil Resistance<br>( $\Omega$ ) $\pm$ 10% | Nominal operating Power | Max.Allowable Voltage<br>(VDC) |
|---------------|------------------------------|-------------------------------|---|-------------------------|--------------------------------|
| 12VDC         | 9.00                         | 1.20                          | 160.00                                    | 0.9W                    | 110% of nominal voltage        |
| 24VDC         | 18.00                        | 2.40                          | 640.00                                    |                         |                                |
| 48VDC         | 36.00                        | 4.80                          | 2560.00                                   |                         |                                |
| 110VDC        | 82.50                        | 11.00                         | 13450.00                                  |                         |                                |
| 12VAC         | 9.60                         | 3.60                          | 42.00                                     | 1.2VA                   |                                |
| 24VAC         | 19.20                        | 7.20                          | 168.00                                    |                         |                                |
| 48VAC         | 38.40                        | 14.40                         | 672.00                                    |                         |                                |
| 220VAC        | 176.00                       | 66.00                         | 14100.00                                  |                         |                                |

## 3PDT

| Rated Voltage | Pick-up Voltage<br>VDC (Max) | Drop-out Voltage<br>VDC (Min) | Coil Resistance<br>( $\Omega$ ) $\pm$ 10% | Nominal operating Power | Max.Allowable Voltage<br>(VDC) |
|---------------|------------------------------|-------------------------------|---|-------------------------|--------------------------------|
| 12VDC         | 9.00                         | 1.20                          | 100.00                                    | 1.4W                    | 110% of nominal voltage        |
| 24VDC         | 18.00                        | 2.40                          | 425.00                                    |                         |                                |
| 48VDC         | 36.00                        | 4.80                          | 1645.00                                   |                         |                                |
| 110VDC        | 82.50                        | 11.00                         | 8640.00                                   |                         |                                |
| 12VAC         | 9.60                         | 3.60                          | 25.00                                     | 2VA                     |                                |
| 24VAC         | 19.20                        | 7.20                          | 100.00                                    |                         |                                |
| 48VAC         | 38.40                        | 14.40                         | 400.00                                    |                         |                                |
| 220VAC        | 176.00                       | 66.00                         | 8470.00                                   |                         |                                |

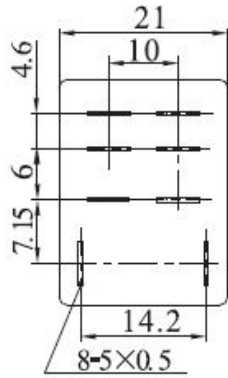
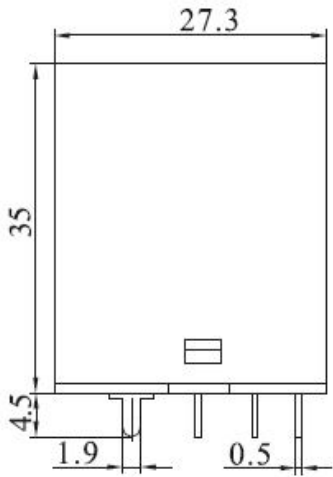
## 4PDT

| Rated Voltage | Pick-up Voltage<br>VDC (Max) | Drop-out Voltage<br>VDC (Min) | Coil Resistance<br>( $\Omega$ ) $\pm$ 10% | Nominal operating Power | Max.Allowable Voltage<br>(VDC) |
|---------------|------------------------------|-------------------------------|---|-------------------------|--------------------------------|
| 12VDC         | 9.00                         | 1.20                          | 96.00                                     | 1.5W                    | 110% of nominal voltage        |
| 24VDC         | 18.00                        | 2.40                          | 385.00                                    |                         |                                |
| 48VDC         | 36.00                        | 4.80                          | 1536.00                                   |                         |                                |
| 110VDC        | 82.50                        | 11.00                         | 8000.00                                   |                         |                                |
| 12VAC         | 9.60                         | 3.60                          | 20.00                                     | 2.5VA                   |                                |
| 24VAC         | 19.20                        | 7.20                          | 80.00                                     |                         |                                |
| 48VAC         | 38.40                        | 14.40                         | 320.00                                    |                         |                                |
| 220VAC        | 176.00                       | 66.00                         | 6776.00                                   |                         |                                |

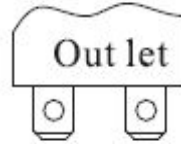
**DIMENSIONS**

Unit: mm

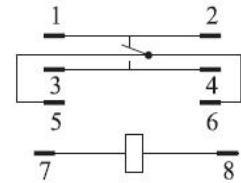
SPDT,DPDT



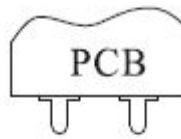
Plug-in version



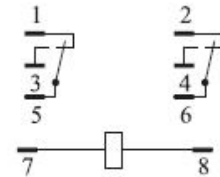
SPDT



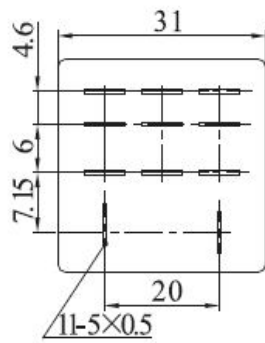
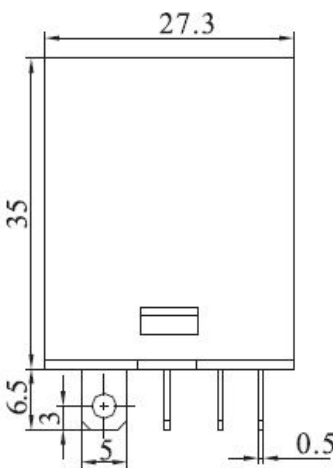
PCB version



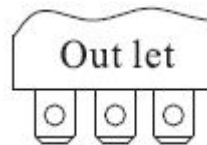
DPDT



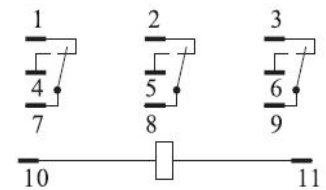
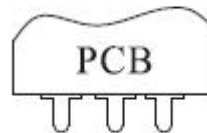
3PDT



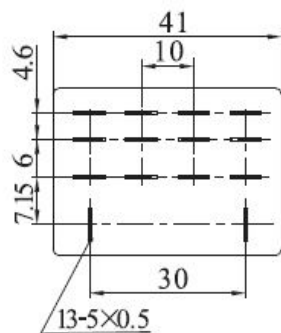
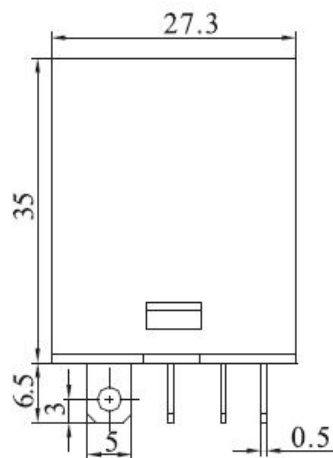
Plug-in version



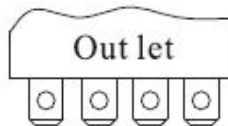
PCB version



4PDT



Plug-in version



PCB version

