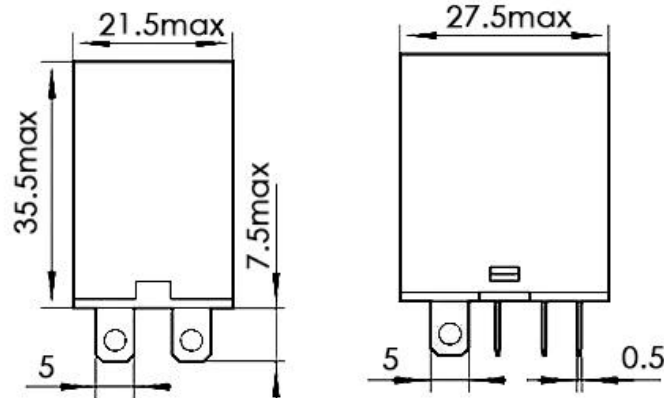




## Features:

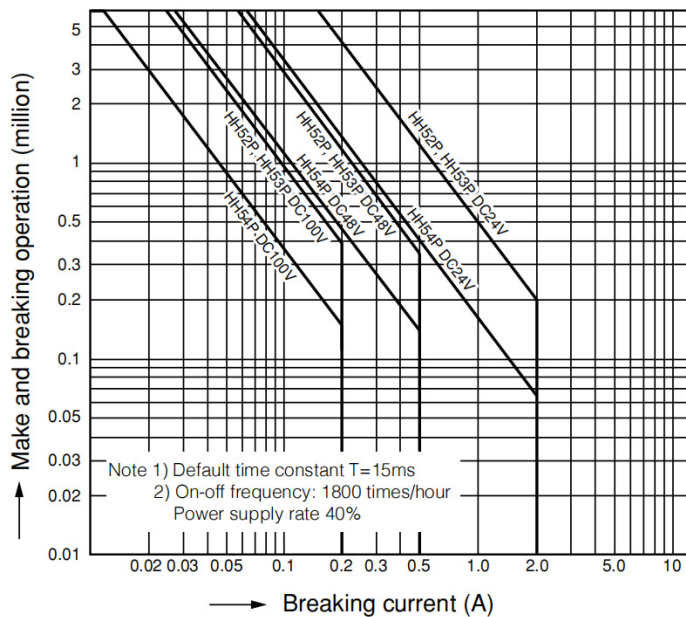
- Approved by CCC, UL, CSA and TUV.
- Equipped with LED, ensuring a clear glance of work status.
- Conformed to regulations on pollution control of electronic information products.

## Dimension: (Unit: mm)

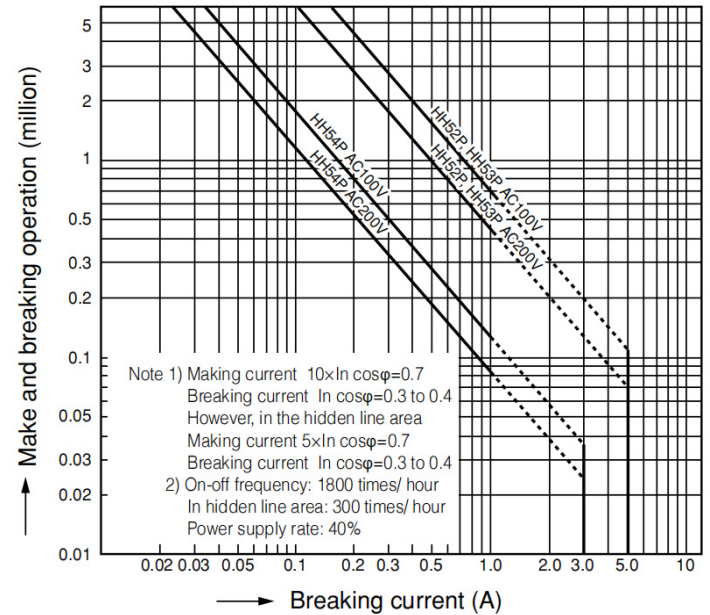


## Electrical Durability Curve:

### DC Ind. load



### AC Ind. load



**Specification:**

|                              |  |
|------------------------------|--|
| Model                        | ATO-EMR-HH52P  |
| Terminal Type                | plug in  |
| Number of Pins               | 8  |
| Contact Form                 | DPDT   |
| Contact Capacity             | 5A/28V DC, 10A/250V AC, 30A/28V DC, 40A/30VDC                      |
| Contact Material             | silver alloy   |
| Coil Power                   | DC $\leq$ 0.9W, AC $\leq$ 1.2VA                                    |
| Coil Voltage                 | optional: 12V DC, 24V DC, 12V AC, 24V AC, 36V AC, 110V AC, 220V AC |
| Pick-up Voltage at 23 °C     | DC $\leq$ 75%, AC $\leq$ 80%                                       |
| Drop-out Voltage at 23 °C    | DC $\geq$ 10%, AC $\geq$ 30%                                       |
| Contact Resistance @6V DC 1A | $\leq$ 100 M $\Omega$  |
| Leakage Current              | $\leq$ 1 mA  |
| Insulation Resistance        | $\geq$ 500 M $\Omega$ at 500V DC                                   |
| Electrical Service Life      | 10 <sup>5</sup> Times (frequency: on 1 time/1s, off 1 time/1s)     |
| Mechanical Service Life      | 10 <sup>6</sup> Times (frequency: 300 Time/1 min)                  |
| Ambient Temperature          | -25 °C ~ +50 °C  |
| Dimension                    | 27×21×35 mm  |
| Certification                | CE, UL, CSA, TUV   |

**Notes:**

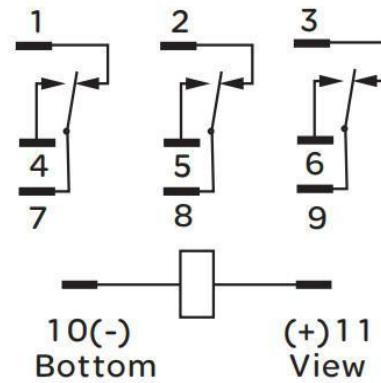
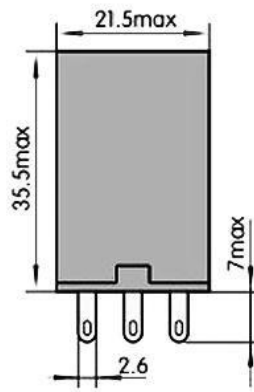
- **Altitude.** The altitude does not exceed 2,000 meters.
- **Voltage.** 85% to 110% of the rated voltage.
- **Temperature.** The ambient temperature between -5°C and 40°C.
- **Gas and dust.** Place free from rain and snow.
- **Method of Installation.** Vertical or horizontal installation.
- **Installation Environment.** In a medium free from serious danger of vibration and explosion, and without such medium as is sufficient to corrode metal and destroy insulation.



## Features:

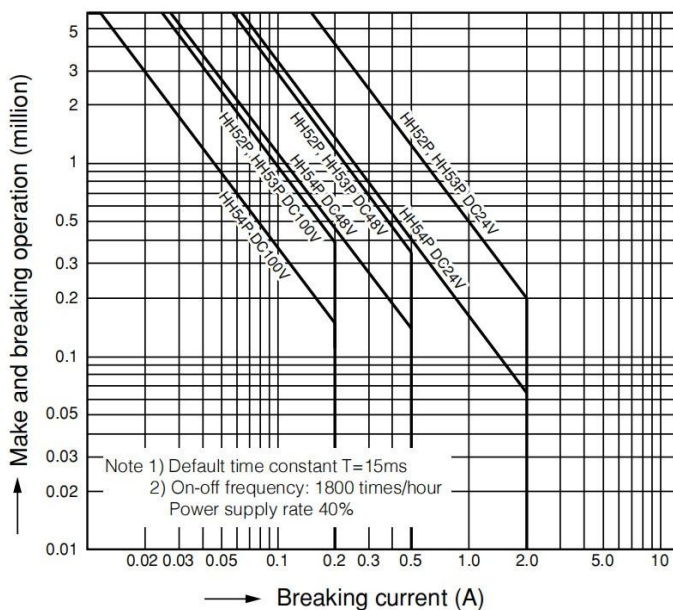
- Approved by CCC, UL, CSA and TUV.
- Equipped with LED, ensuring a clear glance of work status.
- Conformed to regulations on pollution control of electronic information products.

## Dimension and Wiring Diagram: (Unit: mm)

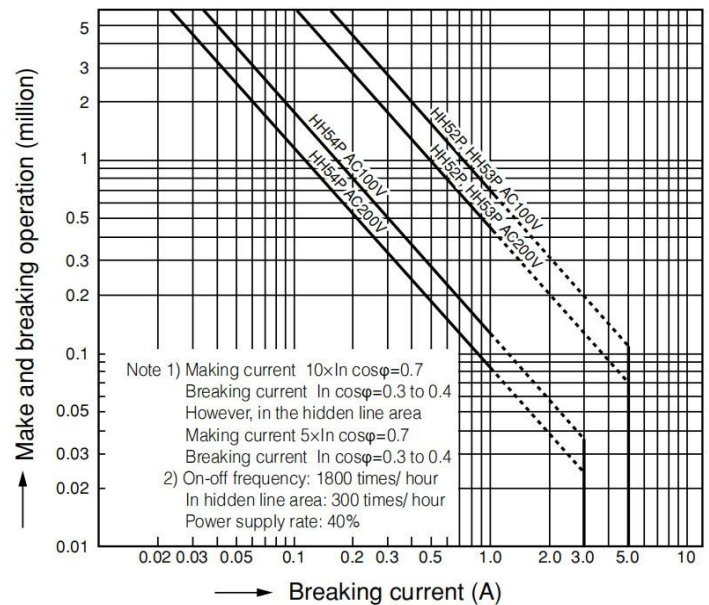


## Electrical Durability Curve:

DC Ind. load



AC Ind. load



**Specification:**

|                              |  |
|------------------------------|--|
| Model                        | ATO-EMR-HH53P  |
| Terminal Type                | plug in  |
| Number of Pins               | 11   |
| Contact Form                 | 3PDT   |
| Contact Capacity             | 5A/28V DC, 10A/240V AC, 10A/250V DC                            |
| Contact Material             | silver alloy   |
| Coil Power                   | DC $\leq$ 0.9W, AC $\leq$ 1.2VA                                |
| Coil Voltage                 | optional: 12V DC, 24V DC, 110V AC, 220V AC                     |
| Pick-up Voltage at 23 °C     | DC $\leq$ 75%, AC $\leq$ 80%                                   |
| Drop-out Voltage at 23 °C    | DC $\geq$ 10%, AC $\geq$ 30%                                   |
| Contact Resistance @6V DC 1A | $\leq$ 100 M $\Omega$  |
| Leakage Current              | $\leq$ 1 mA  |
| Insulation Resistance        | $\geq$ 500 M $\Omega$ at 500V DC                               |
| Electrical Service Life      | 10 <sup>5</sup> Times (frequency: on 1 time/1s, off 1 time/1s) |
| Mechanical Service Life      | 10 <sup>6</sup> Times (frequency: 300 Time/1 min)              |
| Ambient Temperature          | -25 °C ~ +50 °C  |
| Weight                       | 35-80g   |
| Dimension                    | 27×21×35 mm  |
| Certification                | CE, UL, CSA, TUV   |

**Notes:**

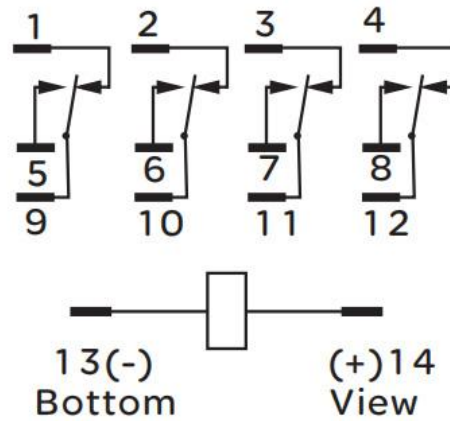
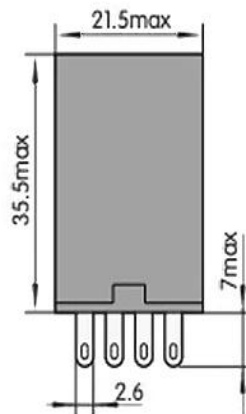
- **Altitude.** The altitude does not exceed 2,000 meters.
- **Voltage.** 85% to 110% of the rated voltage.
- **Temperature.** The ambient temperature between -5°C and 40°C.
- **Gas and dust.** Place free from rain and snow.
- **Method of Installation.** Vertical or horizontal installation.
- **Installation Environment.** In a medium free from serious danger of vibration and explosion, and without such medium as is sufficient to corrode metal and destroy insulation.



## Features:

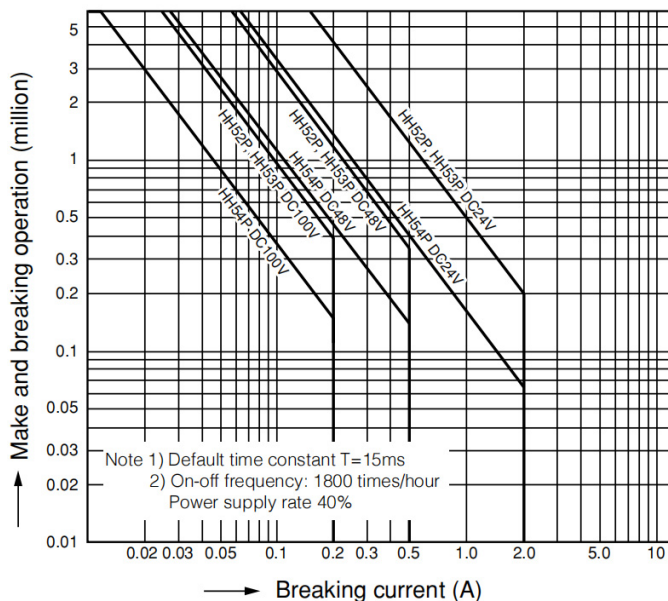
- Approved by CCC, UL, CSA and TUV.
- Equipped with LED, ensuring a clear glance of work status.
- Conformed to regulations on pollution control of electronic information products.

## Dimension and Wiring Diagram: (Unit: mm)

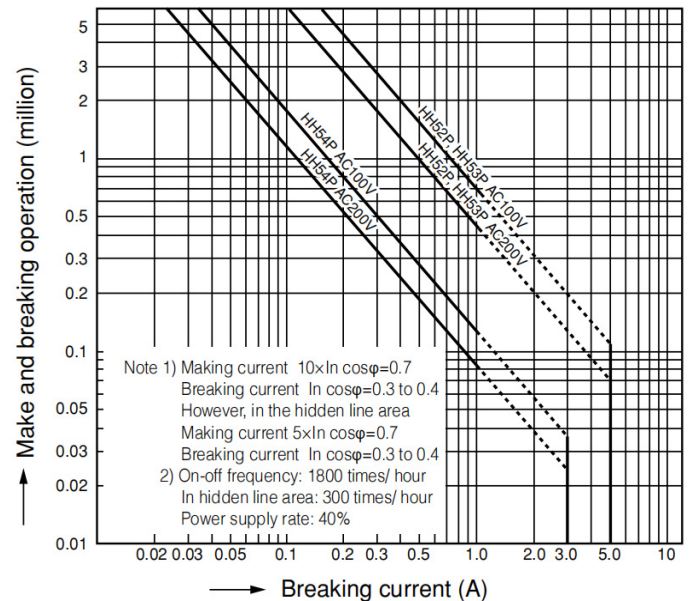


## Electrical Durability Curve:

### DC Ind. load



### AC Ind. load



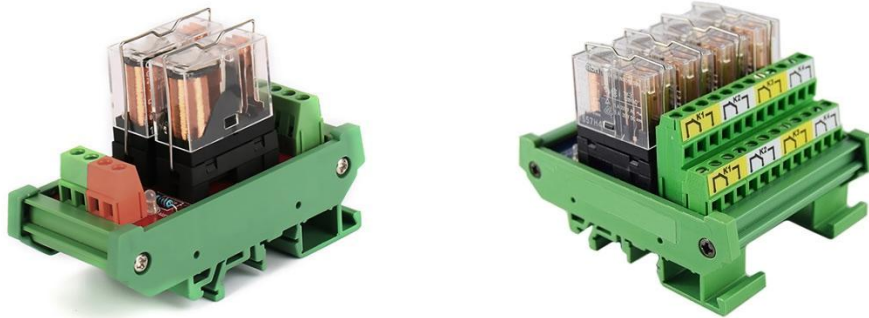
**Specification:**

|                              |  |
|------------------------------|--|
| Model                        | ATO-EMR-HH54P  |
| Terminal Type                | plug in  |
| Number of Pins               | 14   |
| Contact Form                 | 4PDT   |
| Contact Capacity             | 3A/28V DC, 3A/240V AC, 10A/240V AC                             |
| Contact Material             | silver alloy   |
| Coil Power                   | DC≤0.9W, AC≤1.2VA  |
| Coil Voltage                 | optional: 12V DC, 24V DC, 110V AC, 220V AC                     |
| Pick-up Voltage at 23 °C     | DC≤75%, AC≤80%   |
| Drop-out Voltage at 23 °C    | DC≥10%, AC≥30%   |
| Contact Resistance @6V DC 1A | ≤100 MΩ  |
| Leakage Current              | ≤1 mA  |
| Insulation Resistance        | ≥500 MΩ at 500V DC   |
| Electrical Service Life      | 10 <sup>5</sup> Times (frequency: on 1 time/1s, off 1 time/1s) |
| Mechanical Service Life      | 10 <sup>6</sup> Times (frequency: 300 Time/1 min)              |
| Ambient Temperature          | -25 °C ~ +50 °C  |
| Weight                       | 40-860g  |
| Dimension                    | 27×21×35 mm  |
| Certification                | CE   |

**Notes:**

- **Altitude.** The altitude does not exceed 2,000 meters.
- **Voltage.** 85% to 110% of the rated voltage.
- **Temperature.** The ambient temperature between -5°C and 40°C.
- **Gas and dust.** Place free from rain and snow.
- **Method of Installation.** Vertical or horizontal installation.
- **Installation Environment.** In a medium free from serious danger of vibration and explosion, and without such medium as is sufficient to corrode metal and destroy insulation.

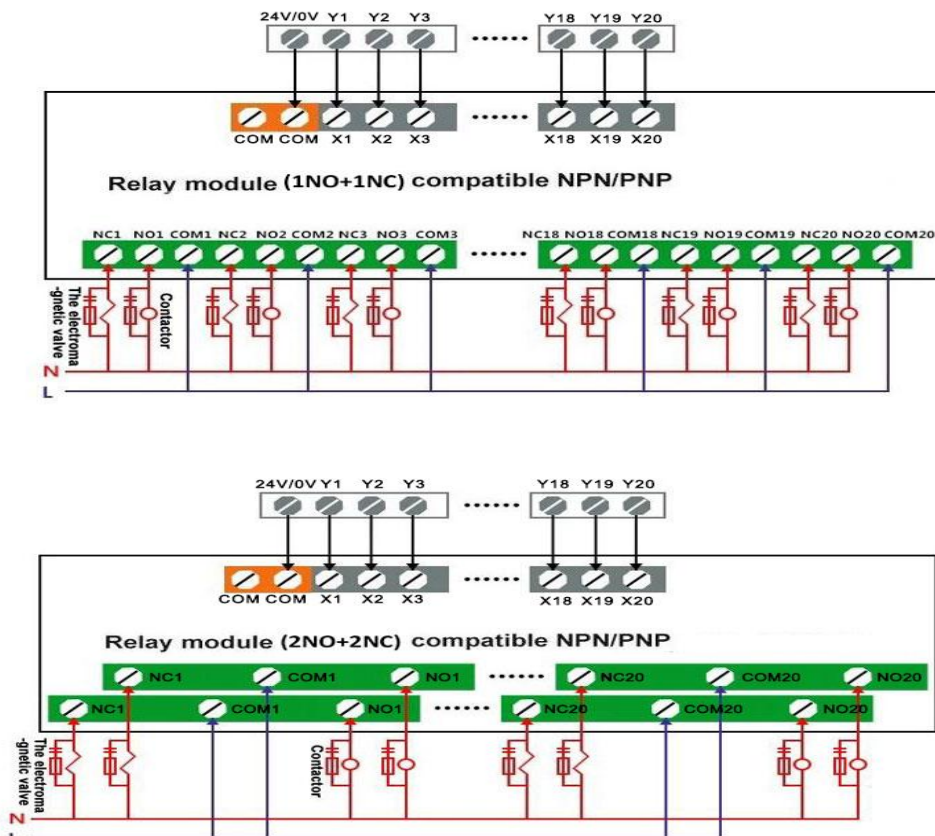




## Features:

- Low level drive, the system power reset, the load will not work, high security.
- The optical coupling isolation can realize the separation of the control voltage and the driving voltage, realize the dual power supply, and improve the interference ability.
- Relay module with LED relay status indicator light (on when relay is closed, off when relay is disconnected).
- Both the control end and the controlled end adopt the latest terminal post design.

## Wiring Diagram: (1NO+1NC & 2NO+2NC)



**Specification:**

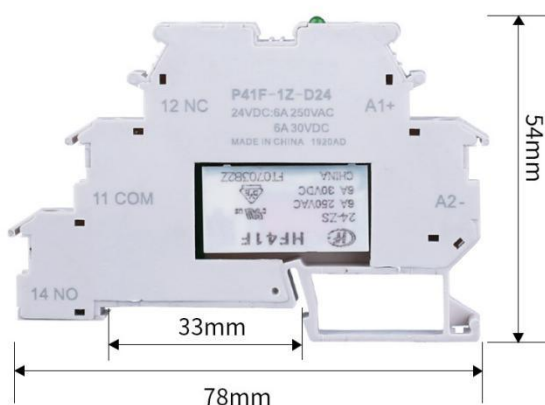
|                               |   |                                       |
|-------------------------------|---|---------------------------------------|
| Model                         | ATO-RM-24   |                                       |
| Number of Channels            | 2, 4, 6, 8, 10, 12, 16, 20, 24, 32 channel  |                                       |
| Input Signal                  | compatible with NPN (input 0V signal is valid), and PNP (input 24V signal is valid) |                                       |
| Input Drive Current           | > 30 mA   |                                       |
| Supply Voltage (Coil Voltage) | 24V DC  |                                       |
| Relay Contact Form            | 1NO+1NC   | 2NO+2NC                               |
| Relay Max. Load Volatge       | resistive load: 10A 250V AC, 12A 30V DC   | resistive load: 5A 250V AC, 5A 30V DC |
|                               | inductive load: 7.5A 250V AC, 5A 30V DC   | inductive load: 2A 250V AC, 3A 30V DC |
| Installation                  | standard rail mounting (Can be mounted on NS35/7.5 or NS32 guides)                  |                                       |
| Working Environment           | 5% ~ 85% RH, -20 °C ~ +70 °C, non-condensing  |                                       |
| Storage Temperature           | -40 °C ~ +150 °C  |                                       |
| Size (L*W*H)                  | 2 channel: 87*40*65 mm  |                                       |
|                               | 4 channel: 87*70*65 mm  |                                       |
|                               | 6 channel: 107*87*65 mm   |                                       |
|                               | (If you want to know the size of other channels, please contact us.)                |                                       |
| Weight                        | Approx. 0.5 kg ~ 1 kg   |                                       |





Slim interface relay is an electromagnetic switch. SPDT DIN rail mount slim relay adopts silver alloy contact material, so the texture of wear, high melting point and oxidation resistance.

### Dimension (Unit: mm)



### Specification:

|                      |                       |                       |
|----------------------|-----------------------|-----------------------|
| Basic                | Model                 | ATO-P41F-1Z-D24       |
|                      | Dimension (L*H)       | 78×54 mm              |
|                      | Weight                | 30g                   |
|                      | Ambient Temperature   | -25 °C ~ +55 °C       |
|                      | Number of Pins        | 5                     |
|                      | Mount Type            | DIN rail              |
| Technical Parameters | Contact Form          | SPDT (NO + NC)        |
|                      | Contact Material      | Silver alloy          |
|                      | Contact Capacity      | 6A/28V DC, 6A/250V AC |
|                      | Coil Power            | DC 2.5W, AC 5VA       |
|                      | Coil Voltage          | 24V DC                |
|                      | Insulation Resistance | 1000 MΩ at 500V DC    |