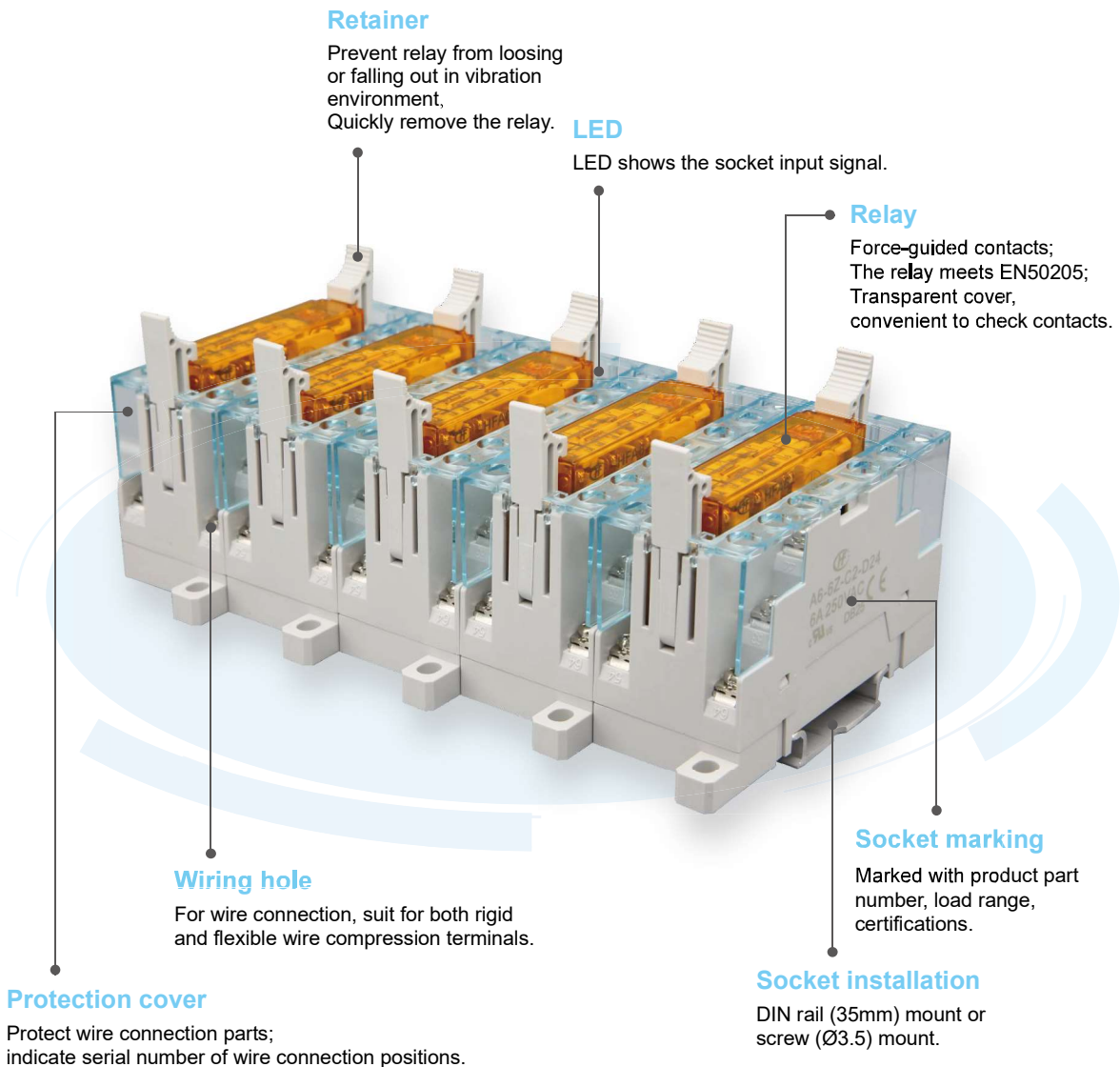


## Features

- Multi contact forms are in option: 2 Form A+2 Form B, 3 Form A+1 Form B, 3 Form A+3 Form B, 4 Form A+2 Form B, 5 Form A+1 Form B
- Forcibly guided contacts according to EN50205
- 2500VAC insulation(I/O), 1000MΩ insulation resistance
- Gasket screw, DIN rail mounting
- 6A contact switching ability
- UL insulation system: Class F available

RoHS compliant



File No.:  
E253370(Relay)



File No.:  
40034342(Relay)



HONGFA RELAY

ISO9001, IATF16949, ISO14001, ISO45001, IECQ QC 080000, ISO/IEC 27001 CERTIFIED

2024 Rev. 1.00

# HFA4-AS

# RELAY MODULE

## CONTACT DATA

Contact arrangement	2H2D, 3H1D
Structure(EN50205)	A type Force guided
Contact rating(Res. load)	6A 250VAC/30VDC
Max. switching voltage	250VAC/30VDC
Max. switching current	6A

## COIL DATA

23°C

Nominal Voltage VDC	Pick-up Voltage VDC max.	Drop-out Voltage VDC min	Max. Allowable Voltage VDC	Coil voltage $\Omega$
6	4.5	0.6	7.8	100×(1±10%)
9	6.8	0.9	11.7	225×(1±10%)
12	9.0	1.2	15.6	400×(1±10%)
18	13.5	1.8	23.4	900×(1±10%)
24	18.0	2.4	31.2	1600×(1±10%)
36	27.0	3.6	46.8	3600×(1±10%)
48	36.0	4.8	62.4	6400×(1±10%)

## CHARACTERISTICS

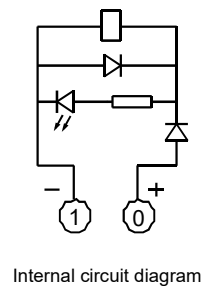
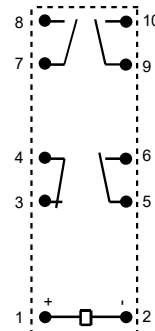
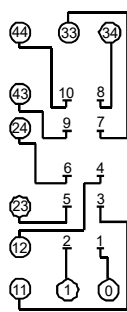
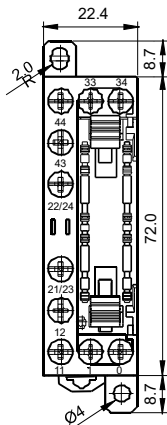
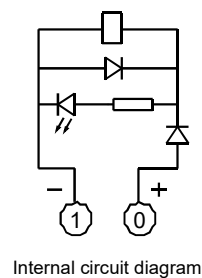
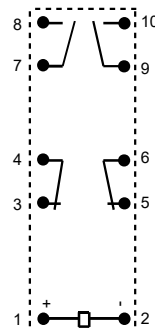
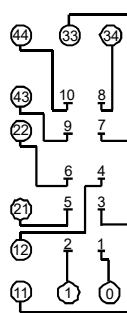
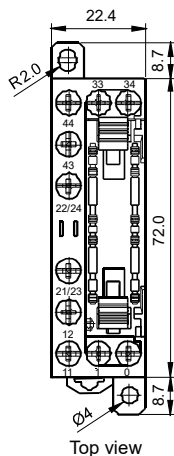
Insulation resistance	Contact	1000M $\Omega$ (500VAC)
resistance		130m $\Omega$ max.(1A 6VDC)
Dielectric strength(RMS)	Between coil & contacts	2500VAC 1min
	Between open contacts	1500VAC 1min
	Between contact sets	2500VAC 1min
Operate time (at nomi. volt.)		20ms max.
Release time (at nomi. volt.)		20ms max.
Vibration resistance		10 Hz to 55 Hz, DA 1.5mm
Shock resistance		98 m/s <sup>2</sup> (10 g), 6 ms
Humidity (RH)		5% to 85% RH
Storage temperature		-25°C to 55°C
Coil Terminal		Gasket screw terminal
Installation Method		DIN rail or screw
Unit weight		Approx. 69g

## ORDERING INFORMATION

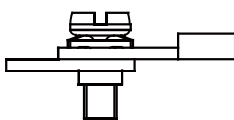
	<b>HFA4-AS</b>	<b>/24</b>	<b>-2H2D</b>	<b>T</b>	<b>G</b>	<b>F</b>	<b>(XXX)</b>	<b>-C2</b>	<b>-D24</b>
<b>Relay module</b>	<b>HFA4:</b> Relay type <b>AS:</b> module								
<b>Relay coil voltage</b>	6, 9, 12, 18, 24, 36, 48 VDC								
<b>Contact arrangement</b>	<b>2H2D:</b> 2 Form A +2 Form B <b>3H1D:</b> 3 Form A +1 Form B								
<b>Contact material</b>	T: AgSnO <sub>2</sub>								
<b>Contact plating</b>	G: Gold plated								
<b>UL insulation system</b>	F: Class F Nil: Class B								
<b>Special code</b>	<b>XXX:</b> The customer special requirement <b>Nil:</b> Standard type								
<b>Terminal and Installation method</b>	C2: Gasket screw,DIN rail mounting								
<b>Input voltage</b>	<b>D24:</b> applicable rated relay coil voltage: 6,9,12,18,24 VDC <b>D60:</b> applicable rated relay coil voltage: 36,48,60 VDC <b>A110:</b> applicable rated relay coil voltage: 48 VDC								

## Unit: mm

## Wiring Diagram



Gasket screw terminal



P/N	module type	relay type	socket type
—	HFA4-AS/24-2H2DTGF-C2-D24	HFA4/24-2H2DTGF	A4-4Z-C2-D24
—	HFA4-AS/24-3H1DTGF-C2-D24	HFA4/24-3H1DTGF	

Note: Please contact us for any information.

## PRECAUTIONS FOR USE

For your personal safety and the normal operation of the equipment, as well as to prevent fire, please note the following issues :

1. The rated current of the socket should be no less than the rated current of the relay.
2. Sockets are required to be firmly fixed to prevent the wiring from loosening and affecting the quality of wiring.
3. Be sure to disconnect power to the outlet before installation, disassembly, wiring, maintenance and inspection.
4. Prevent foreign objects such as wire shavings from falling inside this product when wiring.
5. Be sure to install the relay in place, and use accessories such as retainer if necessary to improve contact reliability.  
Do not use with incomplete connections.
6. Be sure to observe the relay ratings and do not overload the relay.
7. Before selecting a relay, make sure that the drive voltage matches the relay excitation voltage.
8. The main external dimension, when the external dimension > 50mm, the tolerance is  $\pm 1\text{mm}$ ; When the 20mm < dimensions are between 50mm  $\leq$ , the tolerance is  $\pm 0.5\text{mm}$ ; When the overall dimension of 5mm < between  $\leq 20\text{mm}$ , the tolerance is  $\pm 0.4\text{mm}$ , and when the external dimension is  $\leq 5\text{mm}$ , the tolerance is  $\pm 0.3\text{mm}$ ;
9. For rail installation, it is recommended to use DIN standard 35 $\times$ 7.5 $\times$ 1, 35 $\times$ 15 $\times$ 1 standard rails.

### Disclaimer

The specification is for reference only. See to "Terminology and Guidelines" for more information. Specifications subject to change without notice. We could not evaluate all the performance and all the parameters for every possible application. Thus the user should be in a right position to choose the suitable product for their own application. If there is any query, please contact Hongfa for the technical service. However, it is the user's responsibility to determine which product should be used only.

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# HFA6-AS

# RELAY MODULE

## CONTACT DATA

Contact arrangement	3H3D, 4H2D, 5H1D
Structure(EN50205)	A type Force guided
Contact rating(Res. load)	6A 250VAC/30VDC
Max. switching voltage	250VAC/30VDC
Max. switching current	6A

## COIL DATA

23°C

Nominal Voltage VDC	Pick-up Voltage VDC max.	Drop-out Voltage VDC min	Max. Allowable Voltage VDC	Coil voltage $\Omega$
6	4.5	0.6	6.6	72×(1±10%)
9	6.8	0.9	9.9	162×(1±10%)
12	9.0	1.2	13.2	288×(1±10%)
18	13.5	1.8	21.78	6448×(1±10%)
24	18.0	2.4	26.4	1152×(1±10%)
36	27.0	3.6	39.6	2592×(1±10%)
48	36.0	4.8	52.8	4608×(1±10%)

## CHARACTERISTICS

Insulation resistance		1000MΩ (500VAC)
Contact resistance		130mΩ max. (1A 6VDC)
Dielectric strength (RMS)	Between coil & contacts	2500VAC 1min
	Between open contacts	1500VAC 1min
	Between contact sets	2500VAC 1min
Operate time (at nomi. volt.)		20ms max.
Release time (at nomi. volt.)		20ms max.
Vibration resistance		10 Hz to 55 Hz, DA 1.5mm
Shock resistance		98 m/s <sup>2</sup> (10 g), 6 ms
Humidity (RH)		5% to 85% RH
Storage temperature		-25°C to 55°C
Coil Terminal		Gasket screw terminal
Installation Method		DIN rail or screw
Unit weight		Approx. 69g

## ORDERING INFORMATION

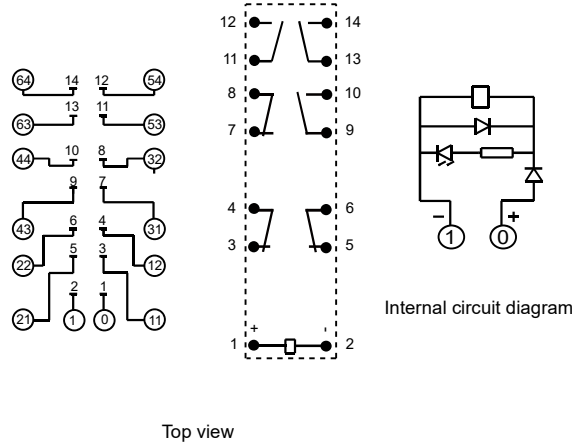
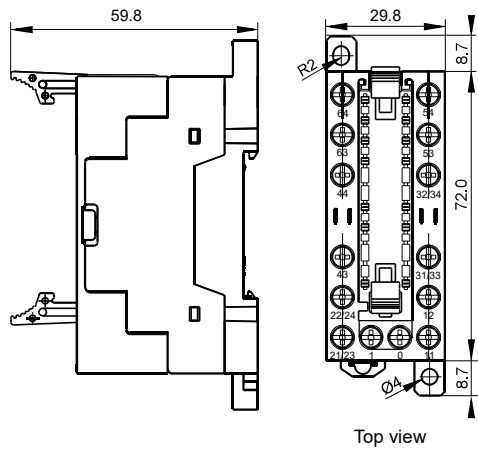
	<b>HFA6-AS</b>	<b>/24</b>	<b>-3H3D</b>	<b>T</b>	<b>G</b>	<b>F</b>	<b>(XXX)</b>	<b>-C2</b>	<b>-D24</b>
Relay module	<b>HFA6:</b> Relay type <b>AS:</b> module								
Relay coil voltage	6, 9, 12, 18, 24, 36, 48 VDC								
Contact arrangement	<b>3H3D:</b> 3 Form A +3 Form B <b>4H2D:</b> 4 Form A +2 Form B <b>5H1D:</b> 5 Form A +1 Form B								
Contact material	T: AgSnO <sub>2</sub>								
Contact plating	G: Gold plated								
UL insulation system	F: Class F Nil: Class B								
Special code	XXX: The customer special requirement Nil: Standard type								
Terminal and Installation method	C2: Gasket screw,DIN rail mounting								
Input voltage	<b>D24:</b> applicable rated relay coil voltage: 6,9,12,18,24 VDC <b>D60:</b> applicable rated relay coil voltage: 36,48,60 VDC								

## OUTLINE DIMENSIONS, WIRING DIAGRAM

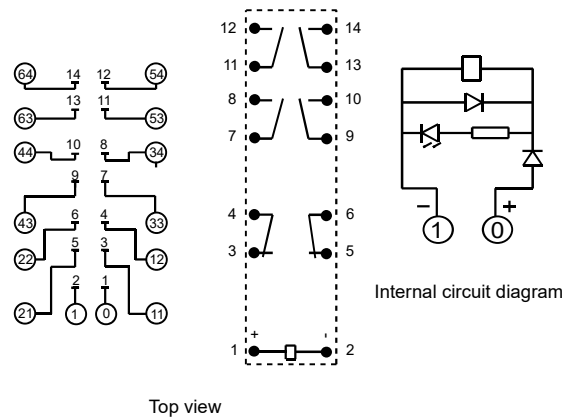
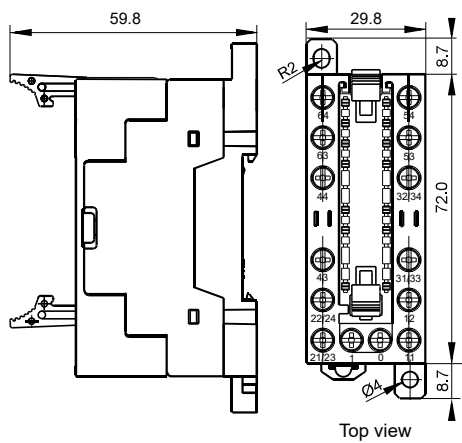
Unit: mm

### Outline Dimensions

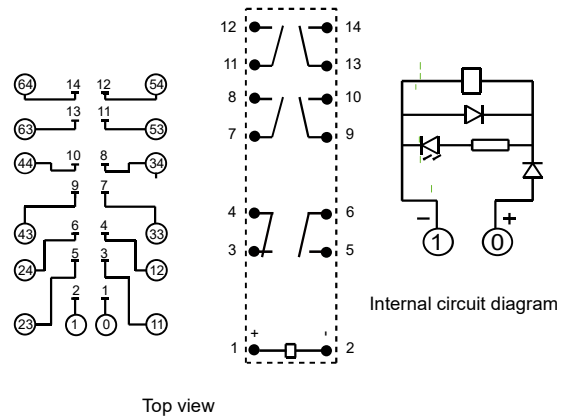
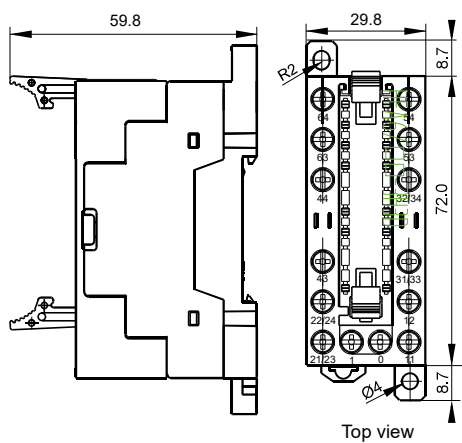
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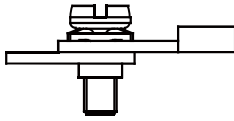


HFA6-AS/24-5H1DTGF(XXX)-C2-D24



## COMPONENT ORDERING INFORMATION

Gasket screw terminal



P/N	module type	relay type	socket type
—	HFA6-AS/24-3H3DTGF-C2-D24	HFA6/24-3H3DTGF	A6-6Z-C2-D24
—	HFA6-AS/24-4H2DTGF-C2-D24	HFA6/24-4H2DTGF	
—	HFA6-AS/24-5H1DTGF-C2-D24	HFA6/24-5H1DTGF	

Note: Please contact us for any information.

## PRECAUTIONS FOR USE

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1. The rated current of the socket should be no less than the rated current of the relay.
2. Sockets are required to be firmly fixed to prevent the wiring from loosening and affecting the quality of wiring.
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6. Be sure to observe the relay ratings and do not overload the relay.
7. Before selecting a relay, make sure that the drive voltage matches the relay excitation voltage.
8. The main external dimension, when the external dimension > 50mm, the tolerance is  $\pm 1\text{mm}$ ; When the  $20\text{mm} < \text{dimensions}$  are between  $50\text{mm} \leq$ , the tolerance is  $\pm 0.5\text{mm}$ ; When the overall dimension of  $5\text{mm} < \text{between} \leq 20\text{mm}$ , the tolerance is  $\pm 0.4\text{mm}$ , and when the external dimension is  $\leq 5\text{mm}$ , the tolerance is  $\pm 0.3\text{mm}$ ;
9. For rail installation, it is recommended to use DIN standard  $35 \times 7.5 \times 1$ ,  $35 \times 15 \times 1$  standard rails.

### Disclaimer

The specification is for reference only. See to "Terminology and Guidelines" for more information. Specifications subject to change without notice. We could not evaluate all the performance and all the parameters for every possible application. Thus the user should be in a right position to choose the suitable product for their own application. If there is any query, please contact Hongfa for the technical service. However, it is the user's responsibility to determine which product should be used only.

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