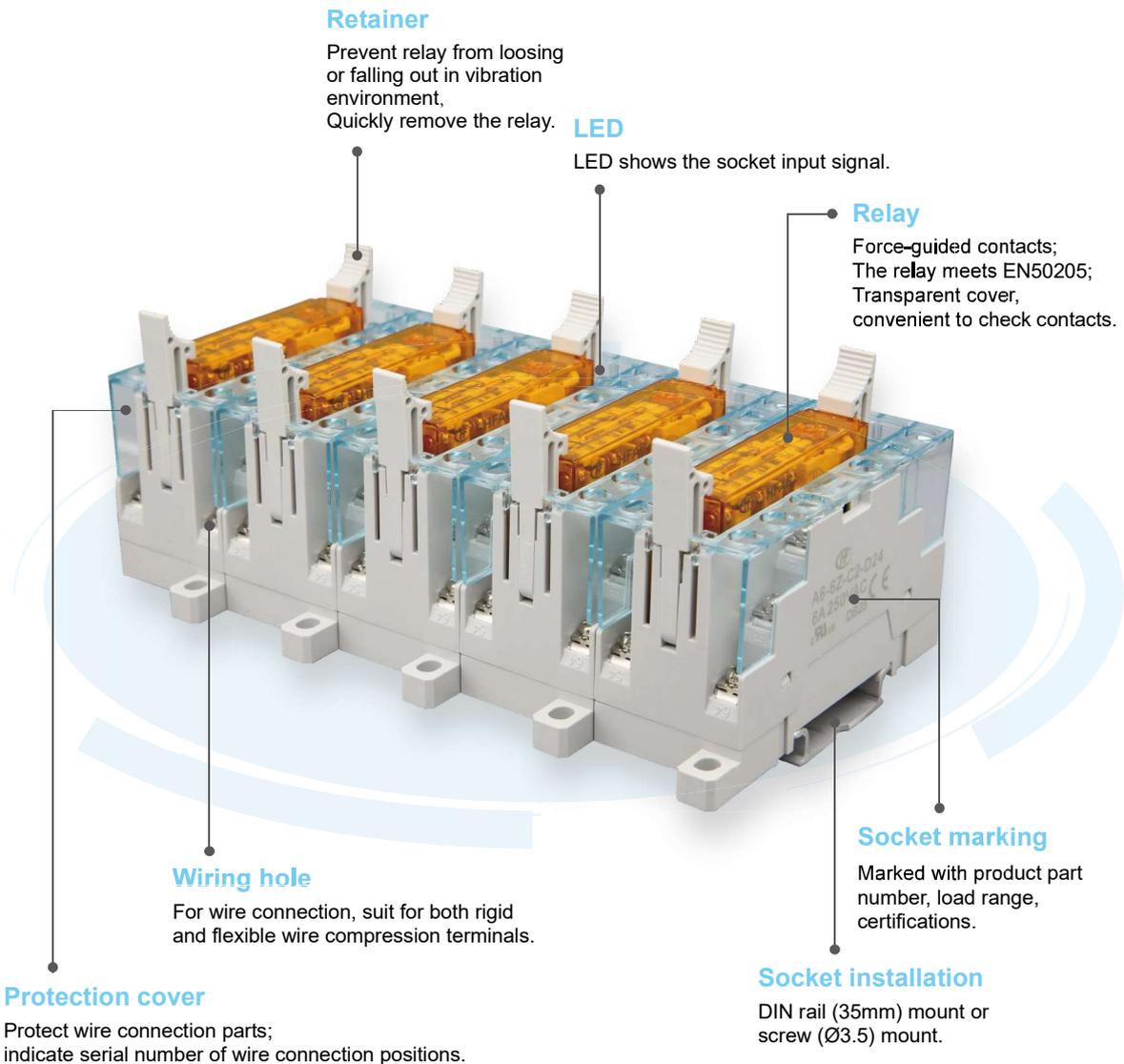


Features

- 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 Ω
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 resistanceContact	1000MΩ(500VAC)	
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 ² (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

	HFA4-AS /24 -2H2D T G F (XXX) -C2 -D24
Relay module	HFA4: Relay type AS: module
Relay coil voltage	6, 9, 12, 18, 24, 36, 48 VDC
Contact arrangement	2H2D: 2 Form A +2 Form B 3H1D: 3 Form A +1 Form B
Contact material	T: AgSnO ₂
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	D24: applicable rated relay coil voltage: 6,9,12,18,24 VDC D60: applicable rated relay coil voltage: 36,48,60 VDC A110: applicable rated relay coil voltage: 48 VDC

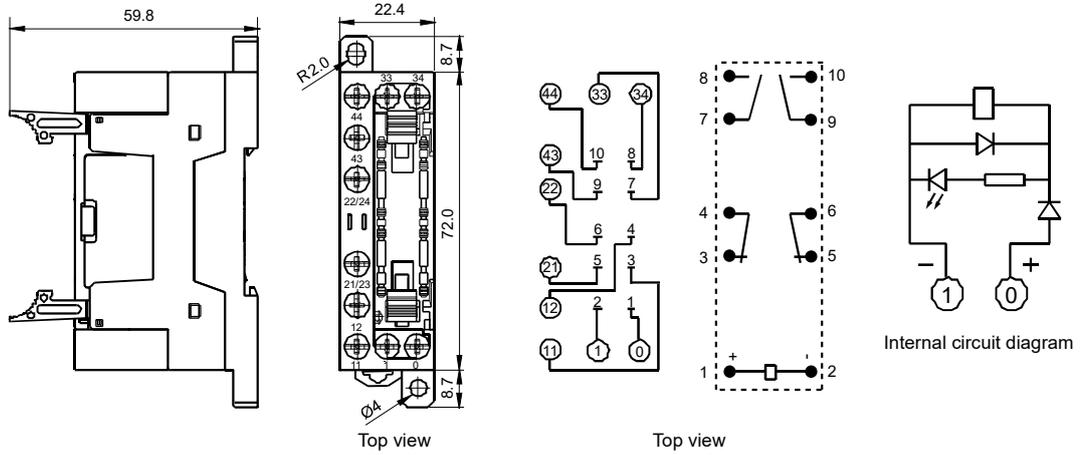
OUTLINE DIMENSIONS, WIRING DIAGRAM

Unit: mm

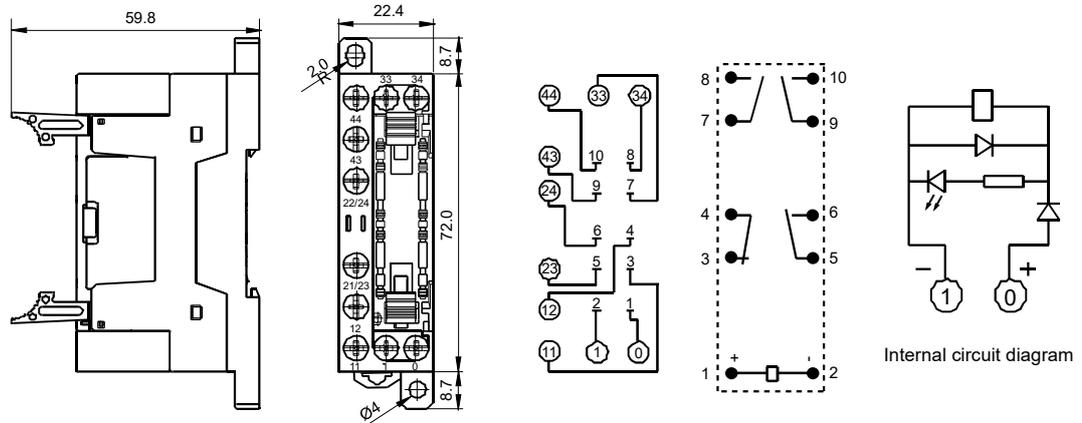
Outline Dimensions

Wiring Diagram

HFA4-AS/24-2H2DTGF(XXX)-C2-D24

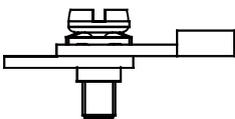


HFA4-AS/24-3H1DTGF(XXX)-C2-D24



COMPONENT ORDERING INFORMATION

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 Ω
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 ² (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

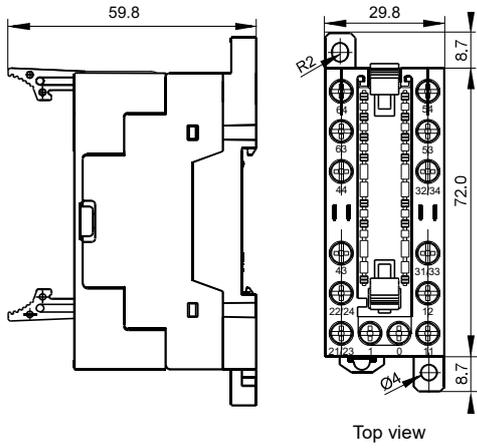
	HFA6-AS /24 -3H3D T G F (XXX) -C2 -D24
Relay module	HFA6: Relay type AS: module
Relay coil voltage	6, 9, 12, 18, 24, 36, 48 VDC
Contact arrangement	3H3D: 3 Form A +3 Form B 4H2D: 4 Form A +2 Form B 5H1D: 5 Form A +1 Form B
Contact material	T: AgSnO ₂
Contact plating	G: Gold plated
UL insulation system	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	D24: applicable rated relay coil voltage: 6,9,12,18,24 VDC D60: applicable rated relay coil voltage: 36,48,60 VDC

OUTLINE DIMENSIONS, WIRING DIAGRAM

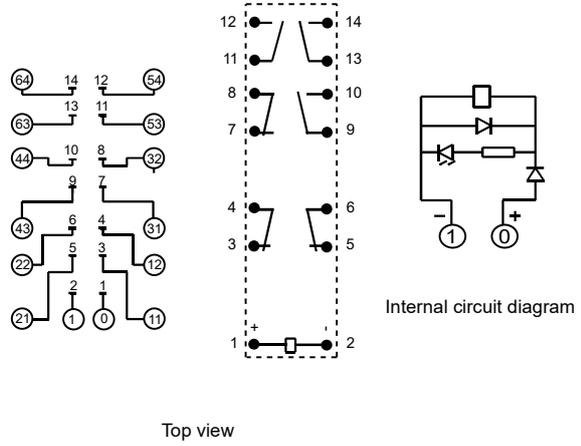
Unit: mm

Outline Dimensions

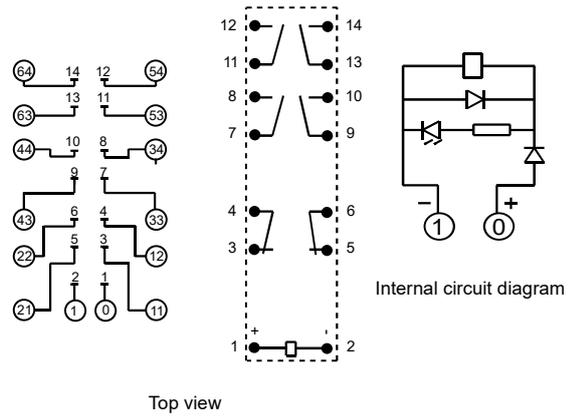
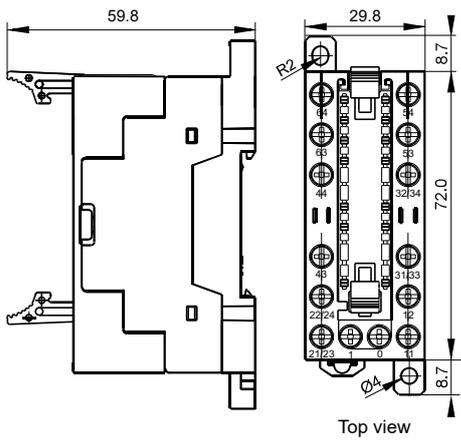
HFA6-AS/24-3H3DTGF(XXX)-C2-D24



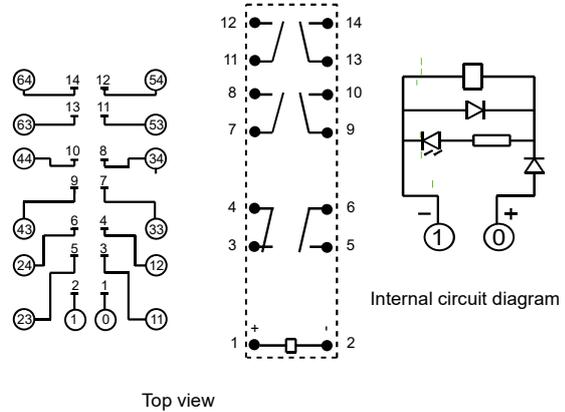
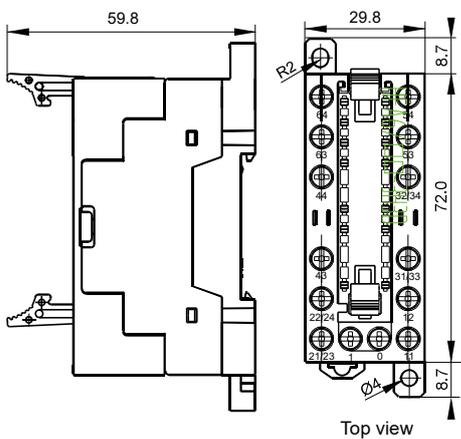
Wiring Diagram



HFA6-AS/24-4H2DTGF(XXX)-C2-D24

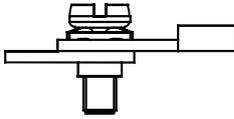


HFA6-AS/24-5H1DTGF(XXX)-C2-D24



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

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 $20\text{mm} < \text{dimensions}$ 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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