

HFS24

THREE-PHASE SOLID STATE RELAY



Pending



Features

- Photo isolation
- LED status indicator
- 4000V dielectric strength
- Zero cross or random turn-on
- Built-in snubber
- Removable finger proof cover available
- Panel mount
- Environmental friendly product (RoHS compliant)

INPUT (TA = 25°C)

Control voltage range	4 to 32VDC
Must operate voltage	4VDC
Must release voltage	1VDC
Max. input current	35mA
Max. reverse protection voltage	-32VDC

GENERAL (TA = 25°C)

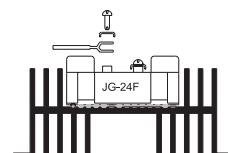
Dielectric strength (input to output)	4000VAC 50Hz/60Hz, 1min
Insulation resistance	1000MΩ (at 500VDC)
Max. capacitance (input to output)	8pF
Ambient temperature	Operating -30°C to 80°C
	Storage -30°C to 100°C
Ambient humidity	45% to 85% RH
Termination	Screw
Mounting model	Panel mount
Unit weight	Approx. 315g

DESCRIPTION

The HFS24 is three-phase AC output relay (3PST-NO).The relay offer 4 to 32VDC input control, with outputs rated at 10A, 15A, 25A, 40A or 60A.The relays include a LED indicator to provide input status information.All models include an internal snubber. The relays provide 4000VAC opto-isolation, between input and output.Encapsulation, thermally conductive epoxy.

INSTALLATION

1. When mounting the relays side by side,provide a space equivalent to the width of a single SSR between two adjacent SSRs.Otherwise,reduce the load current flow to 1/2 to 1/3 of the rated current.
2. When mounting relays on heat sink surface,first apply a heat conductive grease to the metal back surface of the SSR.Press the SSR firmly onto the heat sink to ensure a good seal.Screw the SSR down to the heat sink.
Next,wire the screw terminals and securely tighten the screws.



HONGFA RELAY

ISO9001, ISO/TS16949 , ISO14001, OHSAS18001, IECQ QC 080000 CERTIFIED

2008 Rev. 1.01

PRECAUTIONS

1. Before connecting a load that generates a high surge current, such as a lamp load to the SSR, make sure that the SSR can withstand the surge current of the load.
The product data sheet shows the non-repetitive peak value of the surge current that flows through the SSR. Normally, use 1/2 of the non-repetitive peak surge current as the standard value. If a surge current exceeding that value is expected, connect a quick-blowing fuse to protect the SSR.
2. When using the HFS24 for an AC load with a peak voltage of more than 750V, connect the load terminals of the relay to an inrush absorber.

ORDERING INFORMATION

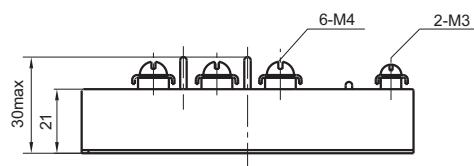
Type	HFS24 /	D-380	A	10	Z	S	-Y	L	P	3	(XXX)
Input voltage	D:	4 to 32VDC									
Load voltage	380:	380V	480:	480V							
Load voltage form	A:	AC									
Load current	10:	10A	15:	15A	25:	25A					
	40:	40A	50:	50A	60:	60A					
Zero cross function	Z:	Zero cross turn-on									
	P:	Random turn-on									
Output component	S:	SCR (Only for D-480A type)									
	Nil:	Triac (Only for D-380A type)									
Varistor protection	Y:	With varistor protection									
	Nil:	Without varistor protection									
LED indicator	L:	With LED									
Phase loss protection	P:	With phase loss protection									
	Nil:	Without phase loss protection									
Output number	3:	Three									
Customer special code											

OUTLINE DIMENSIONS, WIRING DIAGRAM AND MOUNTING HOLES

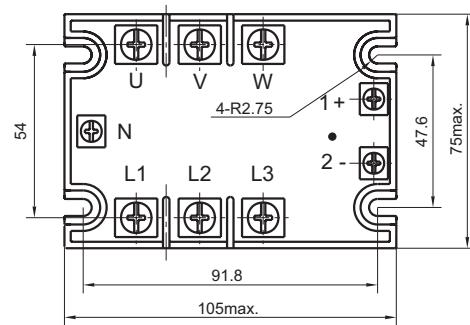
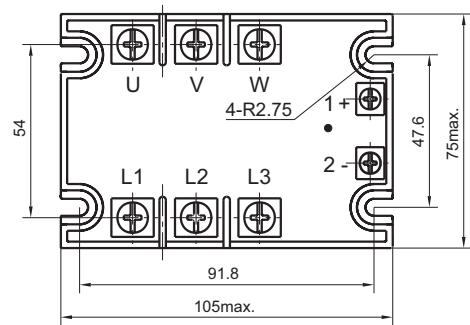
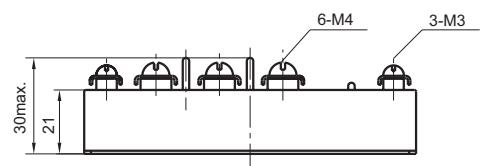
Unit: mm

Outline Dimensions

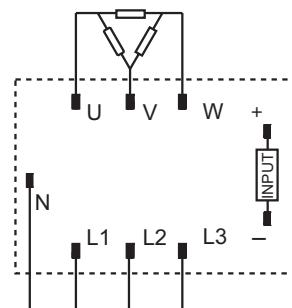
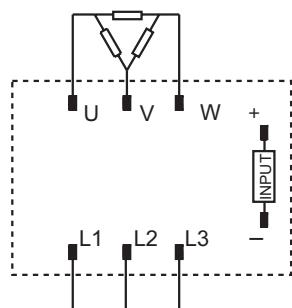
HFS24 (Non phase loss protection)



HFS24 (With phase loss protection)

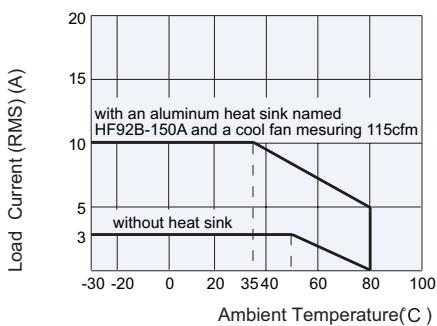


Wiring Diagram

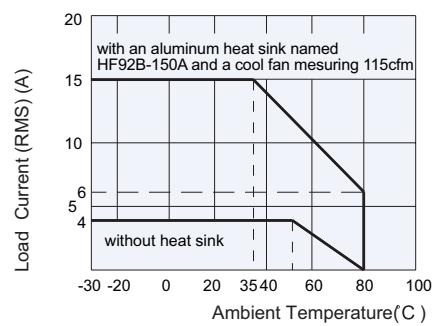


CHARACTERISTIC CURVES

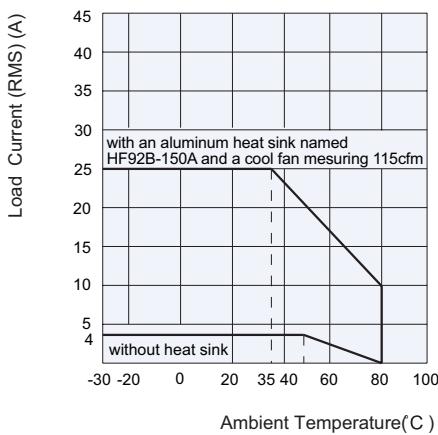
Max. Load Current vs. Ambient Temp. (10A)



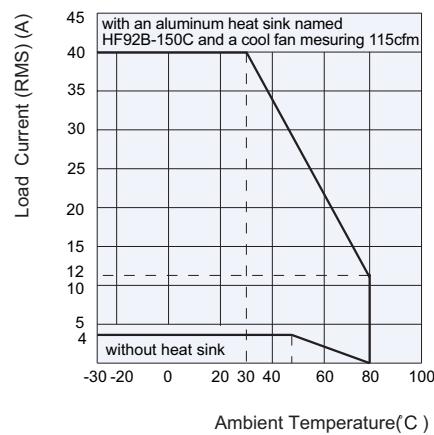
Max. Load Current vs. Ambient Temp. (15A)



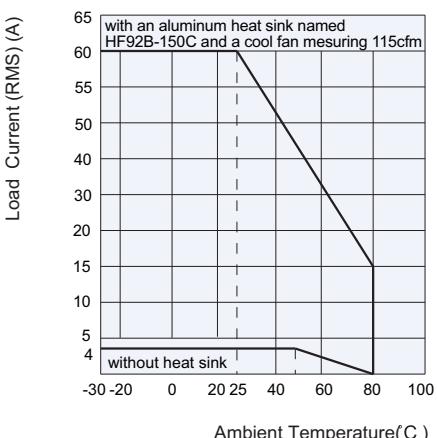
Max. Load Current vs. Ambient Temp. (25A)



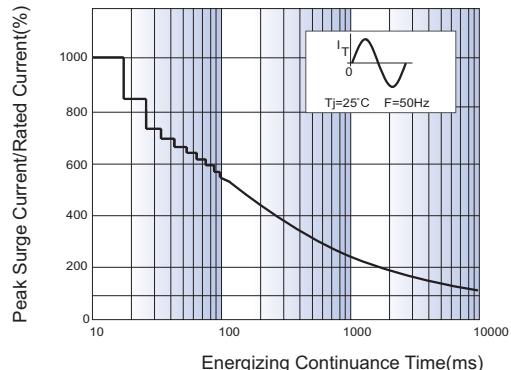
Max. Load Current vs. Ambient Temp. (40A)



Max. Load Current vs. Ambient Temp. (60A)



Max. Permissible Non-repetitive Peak Surge Current vs. Continuance Time



Disclaimer

This datasheet is for the customers' reference. All the specifications are 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.