HFS24(JG-24F)

THREE-PHASE SOLID STATE RELAY



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
- 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 |
| OUTPUT (TA = 25 | °C) | |
| Load voltage range | | 48 to 440VAC |
| Load current range | | D380A10Z: 10A D380A15Z: 15A D380A25Z: 25A D380A40Z: 40A D380A60Z: 60A |
| Max. transient overvoltage | | 800Vpk |
| Max. surge current (10ms) | | D380A10Z: 100Apk D380A15Z: 150Apk D380A25Z: 250Apk D380A40Z: 400Apk D380A60Z: 600Apk |
| Max. on-state voltage drop | | 1.5Vrms |
| Min. load current | | 100mA |
| Max. leakage current | | 10mA |
| Min. off-state dv/dt | | 200V/µs |
| Max. turn-on time | | 1/2cycle + 1ms |
| Max. turn-off time | | 1/2cycle + 1ms |
| Min. power factor | | 0.5 |
| 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 |
| I lieftefelet | | |

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

- 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.

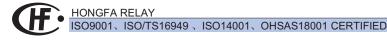
Next, wire the screw terminals and securely tighten the screws.



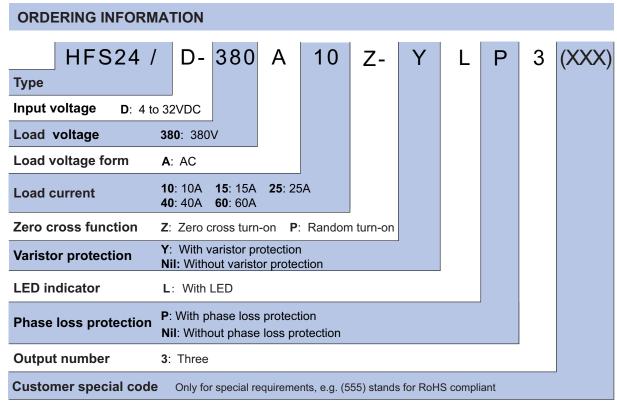
PRECAUTIONS

Approx. 315g

- 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.
- 2. 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.
- 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.



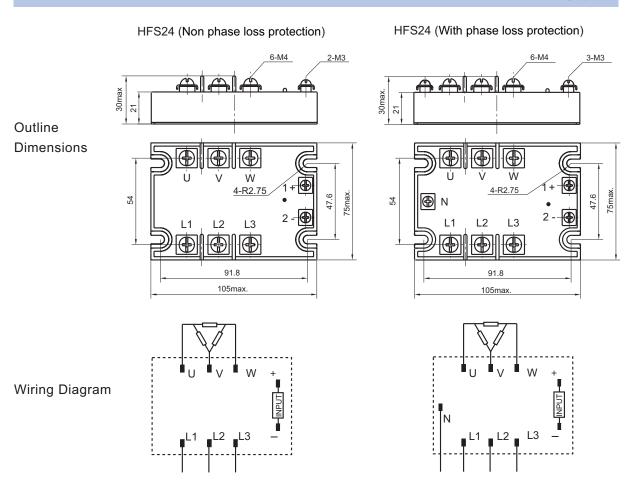
Unit weight



Notes: HFS24 is an environmental friendly product, please mark special code (555) when order.

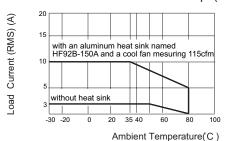
OUTLINE DIMENSIONS, WIRING DIAGRAM AND MOUNTING HOLES

Unit: mm

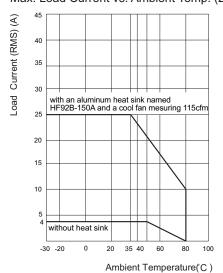


CHARACTERISTIC CURVES

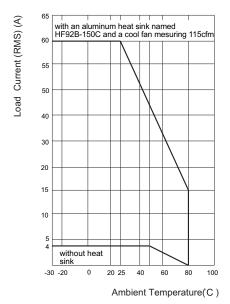
Max. Load Current vs. Ambient Temp. (10A)



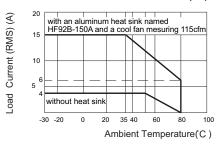
Max. Load Current vs. Ambient Temp. (25A)



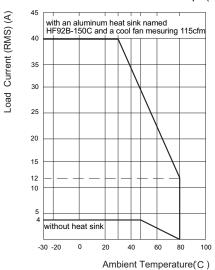
Max. Load Current vs. Ambient Temp. (60A)



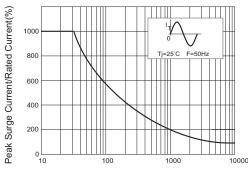
Max. Load Current vs. Ambient Temp. (15A)



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



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



Energizing Continuance Time(ms)

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.

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