

# JG-24F

# THREE-PHASE SOLID STATE RELAY



## Features

- \* 4000V dielectric strength
- \* Photo isolation
- \* LED status indicator
- \* Built-in snubber
- \* Zero cross or random turn-on
- \* Panel mount

## INPUT

Control voltage range	3-32VDC
Must operate voltage	3VDC
Must release voltage	1VDC
Maximum input current	35mA(32VDC)
Maximum reverse protection voltage	-32VDC

## OUTPUT

Load voltage range	36 to 440VAC
Load current range	D38Z10: 0.1 to 10Aac D38Z15: 0.1 to 15Aac D38Z25: 0.1 to 25Aac
Transient overvoltage	800Vpk
Max. surge current	D38Z10: 100Apk D38Z15: 150Apk D38Z25: 250Apk
Max. on-state voltage drop	1.5Vac
Min. load current	100mAac
Max. leakage current	10mAac
Min. off-state dv/dt	200V/μs
Max. turn-on time(@50Hz)	10ms
Max. turn-off time(@50Hz)	10ms
Min. power factor	0.5

## GENERAL

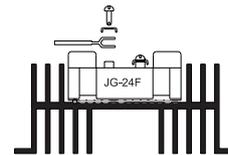
Dielectric strength (input to output)	4000Vrms 1min.	
Insulation resistance	1000MΩ 500VDC	
Max. capacitance (input to output)	8pF	
Ambient temperature	Operating	-30°C to +80°C
	Storage	-30°C to +100°C
Ambient Humidity	45% to 85%	
Termination	screw	
Mounting model	panel mount	
Unit weight	Max. 315g	

## DESCRIPTION

The JG-24F is three-phase AC output relay (3PST-NO), provides three-phase control in a single package. The relay offer 3-32VDC input control, with outputs rated at 10, 15 or 25Amps. The relays include a LED indicator to provide input status information. All models include an internal snubber. The relays provide 4000Vrms 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.
3. Next, wire the screw terminals and securely tighten the screws.



## 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.
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.
3. When using the JG-24F for an AC load with a peak voltage of more than 750V, connect the load terminals of the relay to an inrush absorber.



HONGFA RELAY  
ISO9001/QS9000/ISO14000 CERTIFIED

VERSION: EN01-20020620

## ORDERING INFORMATION

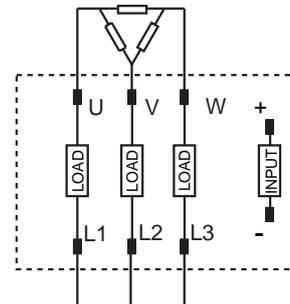
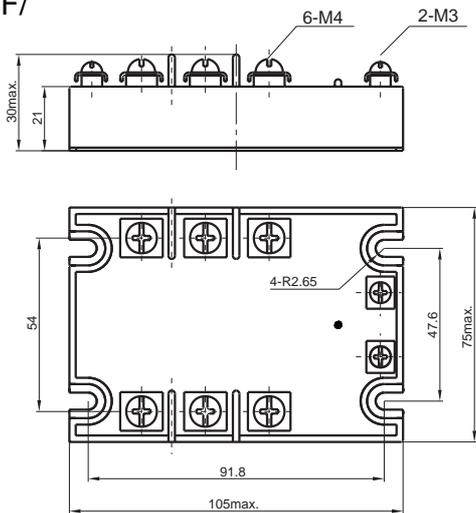
Type	JG-24F /	D	38	Z	10
Input voltage	D: DC3 to 32VDC				
Load Supply voltage	38: 36 to 440VAC				
Zero Cross Function	Z: Zero cross turn-on P: Random turn-on				
Load Current	10: 10Amp 15: 15Amp 25: 25Amp				

## OUTLINE DIMENSIONS, WIRING DIAGRAM AND MOUNTING HOLES

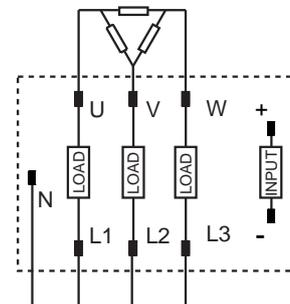
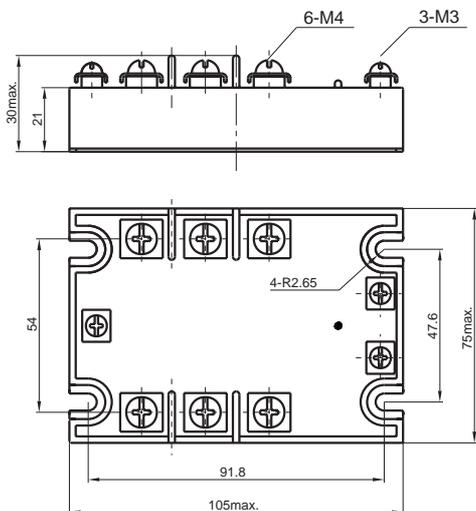
Outline Dimensions

Wiring Diagram

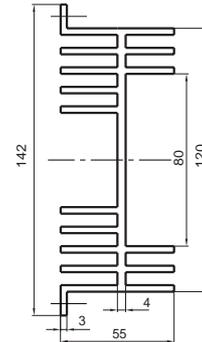
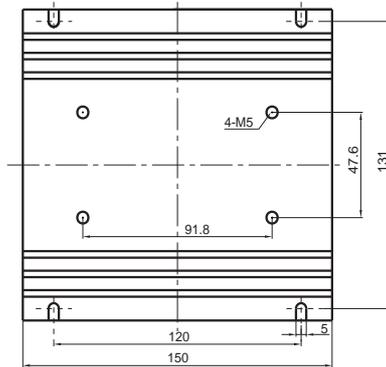
JG-24F/



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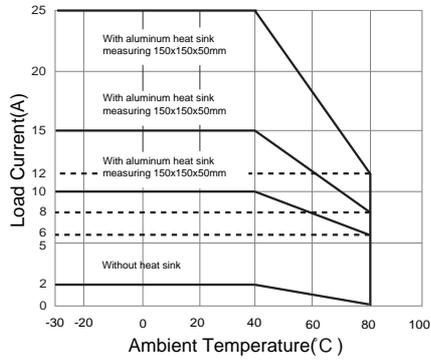


# HEAT SINKS HF92B-150



# CHARACTERISTICS CURVE

MAXIMUM LOAD CURRENT VS. AMBIENT TEMPERATURE



MAXIMUM PERMISSIBLE NON-REPETITIVE PEAK SURGE CURRENT VS. CONTINUANCE TIME

