

# JG-34F

# THREE-PHASE SOLID STATE RELAY



## Features

- 4000V dielectric strength
- Photo isolation
- Zero cross or random turn-on
- Double SCR AC output
- Panel mount
- DC or AC control

## INPUT

Control voltage range (DC input)	3-32VDC
Control voltage range (AC input)	85-280VAC
Must operate voltage (DC input)	3VDC max.
Must operate voltage (AC input)	85VAC.
Must release voltage (DC input)	1.0VDC min.
Must release voltage (AC input)	10Vrms
Maximum input current (DC input)	28mA(@32VDC)
Maximum reverse protection voltage(DC input)	- 32VDC

## OUTPUT

Max. Off State Leakage Current (@ Rated Voltage)	5mA
Max. On-State Voltage Drop (@ Rated Current)	1.7Vrms
Max. Turn-on Time	Random Turn-on (DC Input) : 1ms
	Zero Cross Turn-on : 1/2 cycle (DC Input) +1ms
	AC Input Type : 20ms
Max turn-off time	(DC input) 1ms+ 1/2 cycle
	(AC input) 40ms
Min. off-state (dv/dt)	500V/us.min.

## GENERAL

Dielectric strength (@50/60Hz for 1min)	4000Vrms 1min.
Insulation resistance	1000MΩ 500VDC
Ambient temperature	Operating -30°C to +80°C
	Storage -30°C to +100°C
Ambient Humidity	45% to 85%
Unit weight	88g

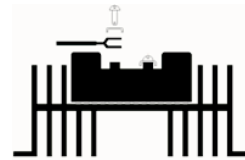
## DESCRIPTION

The JG-34F offer 3-32VDC or 85-280VAC input control, with outputs rated at 25、40、60、80、100 or 120Amps. All models include an internal snubber. The relays provide 4000Vrms opto-isolation between input and output.

## 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, The load current flow must reduce to 1/2 or 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 Solid State Relay. Press the SSR firmly onto the heat sink to ensure a good seal. Screw the SSR down to the heat sink. Last, wire the screw terminals and securely tighten the screws.



## PRECAUTIONS

1. Before connecting the high surge current load, such as the lamp load, 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 the surge current exceeding that value is expected, connect a quick-blowing fuse to protect the SSR.

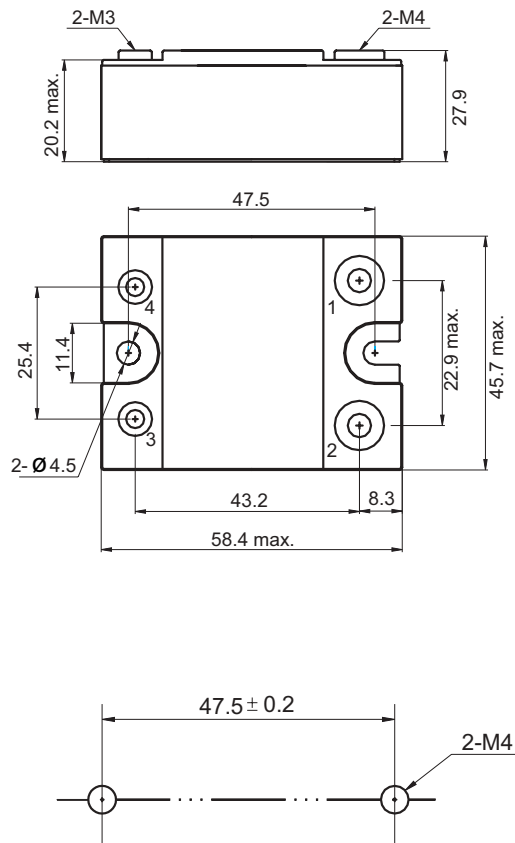


## ORDERING INFORMATION

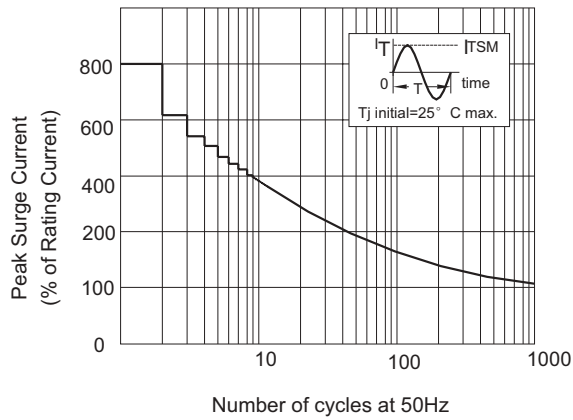
Type	JG-34F /		D	24	Z	025	XXX
Input voltage	D: 3-32VDC		A: 85-280VAC				
Load Supply voltage	24:	48-240Va.c.	38:	48-440Va.c.			
Zero Cross Function	Z: Zero cross turn-on		P: Non-zero cross turn-on				
Load Current	025:	25Amp	040:	40Amp	060:	60Amp	
	080:	80Amp	100:	100Amp	120:	120Amp	
Customer special request code							

## OUTLINE DIMENSIONS, WIRING DIAGRAM AND MOUNTING HOLES

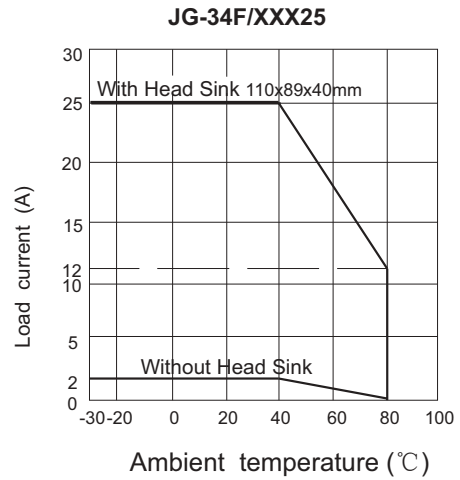
Outline Dimensions



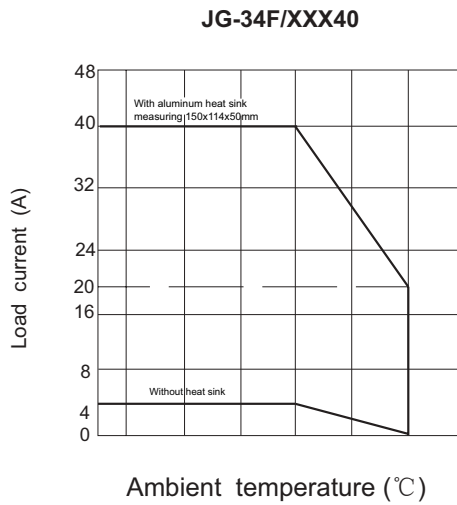
## CHARACTERISTICS CURVE



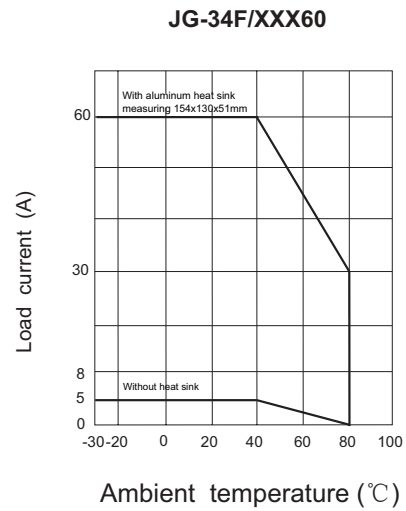
**Figure 1** Maximum permissible non-repetitive peak surge current vs. Number of cycles



**Figure 2** Maximum load current vs. ambient temperature



**Figure 3** Maximum load current vs. ambient temperature



**Figure 4** Maximum load current vs. ambient temperature