



### Features

- \* 2500Vrms dielectric strength
- \* LED status indicator
- \* 600 Volt blocking voltage
- \* Photo isolation
- \* Built-in snubber
- \* Zero cross or random turn-on
- \* Printed circuit board mount

### INPUT

Control voltage range	05D	3.5 to 6VDC
	12D	8.4 to 14.4VDC
	24D	16.8 to 28.8VDC
Must operate voltage	05D	3.5VDC
	12D	8.4VDC
	24D	16.8VDC
Must release voltage	05D	0.3VDC
	12D	0.9VDC
	24D	1.8VDC
Max. reverse protection voltage	05D	-6VDC
	12D	-14.4VDC
	24D	-28.8VDC
Typical input current		12mAdc

### DESCRIPTION

This SPST-NO printed circuit board mount SSR provides AC output switching in a high density package. The JGX-40FA's DC input is compatible with 5, 12 and 24V logic systems. The relays include a LED indicator to provide input status information. All models include an internal snubber. The relays provide 2500Vrms opto-isolation, between input and output. Encapsulation, thermally conductive epoxy.

### APPLICATIONS

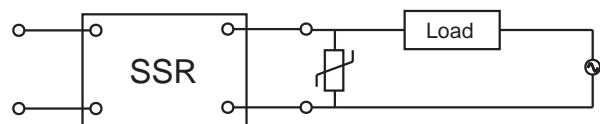
- \* I/O interface
- \* Programmable controllers

### OUTPUT

Load voltage range		48 to 380VAC
Load current rang		0.1 to 3Amp
Max. Surge current(10ms)		30Apk
Max. Leakage current		5mA max
Max. On-state voltage drop		1.5VDC max
Max. turn-on time	Zero cross turn-on	10ms max
	Random turn-on	1ms max
Max. turn-off time		10ms max
Max. Transient over voltage	JGX-40FA/ 22	600Vpk max
	JGX-40FA/ 38	800Vpk max
Min. off-state dv/dt		100v/μs
Min. power factor		0.5

### PRECAUTIONS

1. Soldering must be completed within 10 seconds at 260°C or less or within 5 seconds at 350°C or less.
2. The SSR case serves to dissipate heat. Install the relays so that they are adequately ventilated. If poor ventilation is unavoidable, reduce the load current by half.
3. When using the JGX-40FA series for an AC load with a peak voltage of more than 450V, connect the load terminals of the relay to an inrush absorber(varistor). The recommended varistor voltage, 440 to 470V.



### GENERAL

Dielectric strength (input to output)		2500VAC min. 50/60Hz 1min.
Insulation resistance		1000MΩ, min. 500VDC
Max. capacitance (input to output)		5pF
Vibration Resistance		5g 10 to 55Hz
Shock Resistance		1000m/s <sup>2</sup>
Ambient temperature	Operating	-30°C to +80°C
	Storage	-30°C to +100°C
Ambient Humidity		45% to 85%
Unit weight		18g

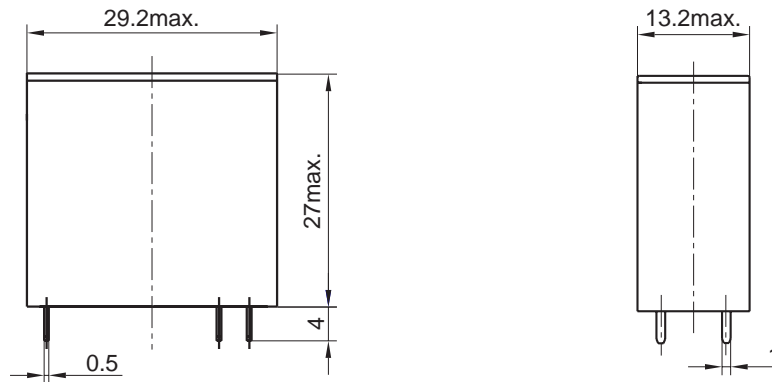


## ORDERING INFORMATION

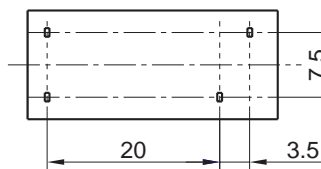
Type	JGX-40FA /	05	D	38	02	P
Input voltage	05: 3.5 to 6VDC 12: 8.4 to 14.4VDC 24: 16.8 to 28.8VDC					
Input Form	D: DC					
Load power supply	12: 120VAC 22: 220VAC 38: 380VAC					
Load current	01: 1Amp 02: 2Amp 03: 3Amp					
Zero Cross Function	P: Random turn-on Vacancy: Zero cross turn-on					

## OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

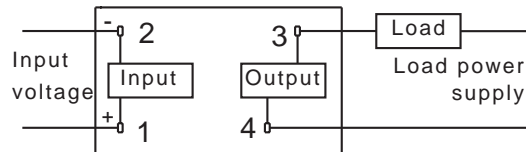
Outline Dimensions



PCB layout

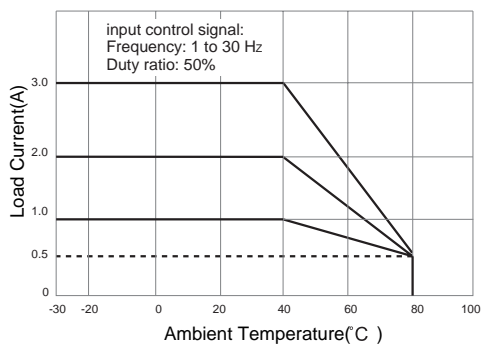


Wiring Diagram



## CHARACTERISTICS CURVE

MAXIMUM LOAD CURRENT VS. AMBIENT TEMPERATURE



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

