

#### Features

- Input: DC control
- Double SCR AC output or TRIAC AC output
- Dielectric Strength: 4000VAC,1min
- DBC Board
- Printed circuit board mount

INPUT	
Input voltage 1D	3-15VDC
Input voltage 2D	15-32VAC
Must operate voltage 1D	3VDC max.
Must operate voltage 2D	15VDC max.
Must release voltage	1.0VDC min.

OUTPUT		
Load voltage range (@47-63Hz)		48 - 264VAC (at□D24□□□model)
		48 - 440VAC (at□ D38□□□ model)
Load current ra	inge	0.1- 16A (see Fig.1)
Max.Surge current <sup>1)</sup> (10ms)		250Apk (see Fig.1)
Max.off-state leakage current (@ Rated voltage)		1.5mA
Max.on-state v	oltage drop	1.5V
Max. Turn-on time	Zero-cross	10ms
	random	1ms
Max turn-off tin	ne	10ms
Transient overvoltage		600Apk max. (at□D24□□□model)
		800Apk max. (at□ D38 □□□ model)
Min. off-state dv/dt		200V/s min.
Min. power factor		0.5

#### **DESCRIPTION**

JGX-41F pin-out is compatible with standard OAC type I/O modules, and all models are available with random turn-on as an alternative to zero-cross turn-on. The JGX-41F SSR range offers a choice of 240 ,380Vac versions. Input Voltage specifications have 3-15Vd.c. and 15-32Vd.c.. All models include an internal snubber.

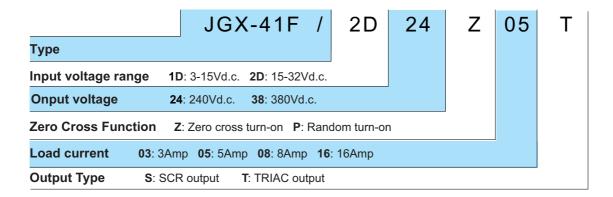
GENERAL	
Dielectric strength (input-output)	4000VAC 1min. 50/60HZ 1min.
Insulation resistance	1000MΩ,min. 500VDC
Vibration	Double range 1.5mm 10 - 55Hz
Ambient operating temperature range	-30°C to +80°C
Ambient storage temperature range	-30°C to +100°C
Ambient humidity	45% to 85%
weight	Max. 15g

### **PRECAUTIONS**

- Soldering must be completed within 10 seconds at 260°C or less or within 5 seconds at 350°C or less.
- 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.
- The input circuitry does not incorporate a circuit protecting the SSR from being damaged due to a reversed connection. Make sure that the polarity is correct when connecting the input lines
- When using the JGX-41F 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.
- 5. The load terminals are internally connected to a snubber circuit that absorb noise. However, if wiring from these terminals is laid with or placed in the same duct as high-voltage or power lines, noise may be induced, causing the SSR to operate irregularly or malfunction.

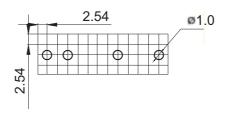


## **ORDERING INFORMATION**

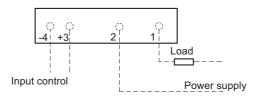


# **OUTLINE DIMENSIONS, WIRING DIAGRAM AND MOUNTING HOLES**

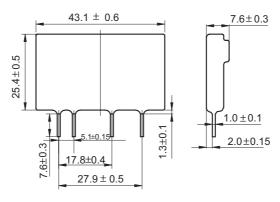




Wiring diagram

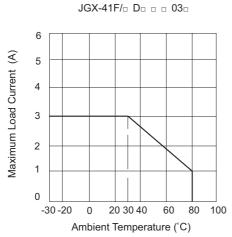


Dimensions(mm)



## **CHARACTERISTICS CURVE**

Figure 1 Maximum load current vs. ambient temperature



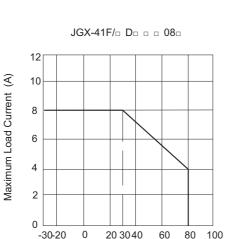
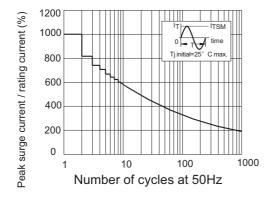
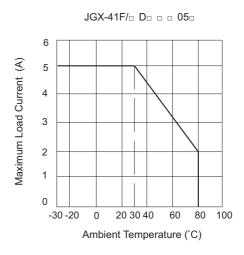


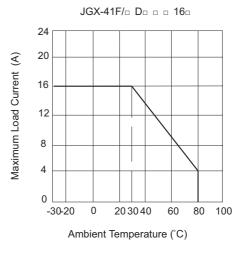
Figure 2 Maximum permissible non-repetitive peak surge current vs. Number of cycles

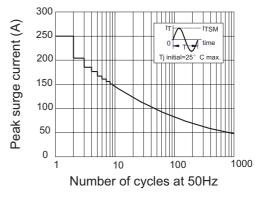
Ambient Temperature (°C)



TRIAC output Maximum permissible non-repetitive peak surge current vs. Number of cycles







SCR Output Maximum permissible non-repetitive peak surge current vs. Number of cycles