

# JGX-1505FB

# SOLID STATE RELAY



File No: E133481



CQC02001001936



## Features

- 4000V dielectric strength
- Photo isolation
- Built-in snubber
- TRIAC AC output
- Panel mount
- DC or AC control
- With LED indicator or not

## DESCRIPTION

The JGX-1505FB offer 3-32VDC or 90-280VAC input control, with outputs rated at 10, 15, 20, 25 or 40Amps. All models include an internal snubber. The relays provide 4000Vrms opto-isolation, between input and output. Outline dimension is 58.4mmX45.7mmX22.9mm.

## INPUT

Control voltage range (DC input)	3 to 32VDC
Control voltage range (AC input)	90 to 280VAC
Must operate voltage (DC input)	Max. 3VDC
Must operate voltage (AC input)	90VAC
Must release voltage (DC input)	Min. 1.0VDC
Must release voltage (AC input)	10Vrms
Maximum input current (DC input)	25mA(@ 32VDC)
Maximum reverse protection voltage(DC input)	- 32VDC

## OUTPUT

Type	D-□ A10□	D-□ A15□	D-□ A20□	D-□ A25□	D-□ A40□
Load voltage range (at 47-63HZ)	D240	48 to 280Vrms			
	D380	48 to 400Vrms			
Transient overvoltage	D240	600Vpk			
	D380	800Vpk			
Load current range(A)	0.1 to 10	0.1 to 15	0.1 to 20	0.1 to 25	0.1 to 40
Max. surge current(10ms)	100Apk	150Apk	200Apk	250Apk	400Apk
Max. leakage current	3mA	5mA	5mA	10mA	10mA
Max. on-state voltage drop	1.5VAC				
Max. turn-on time	1/2 cycle+1ms (Zero Cross)				
Max. turn-on time	1ms (Random turn-on)				
Max. turn-off time	1/2 cycle+1ms				
Min. off-state(dv/dt)	200V/μs				
Min. power factor	0.5				

## GENERAL

Type	D-□ A10□	D-□ A15□	D-□ A20□	D-□ A25□	D-□ A40□
Dielectric strength (input to output)	4000VAC (at 50/60Hz, 1min.)				
Insulation resistance	1000MΩ (at 50/60Hz, 1min.)				
Ambient temperature	Operating	-30°C to +80°C			
	Storage	-30°C to +100°C			
Unit weight	typ. 88g				

Notes: All parameters at 25°C.

## PRECAUTIONS

- 1、When choosing a SSR, please notice the actual load current and working ambient temperature. To use the SSR correctly, please refer to CHARACTERISTIC DATA and make sure the heat sink size when it works in full load current.
- 2、Apply heat-radiation silicon grease of a heat conductive sheet between the SSR and heat sink. There will be a space between the SSR and heat sink Attached to the SSR. Therefore, the generated heat of the SSR cannot be radiated properly without the grease. As a result, the SSR may be overheated and damaged or deteriorated.
- 3、Tighten the SSR terminal screws properly. If the screws are not tight, the SSR will be Damaged by heat generated when the power in ON. Perform wiring using the tightening torque shown in the following table.

Screw size	Recommended tightened torque
M3	0.58 to 0.98 N·m
M4	0.98 to 1.37 N·m



HONGFA RELAY

ISO9001、ISO/TS16949、ISO14001 CERTIFIED

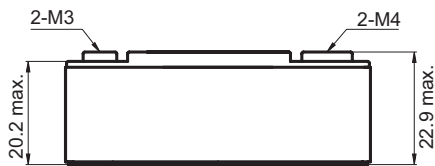
VERSION: EN02-20040601

## ORDERING INFORMATION

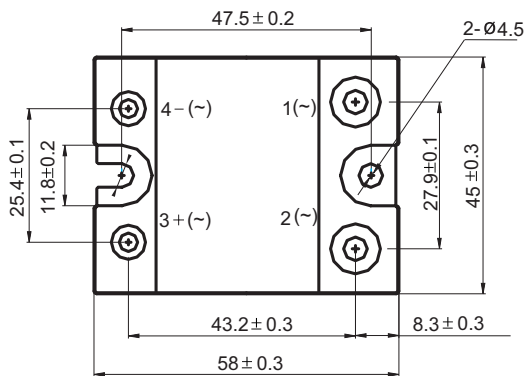
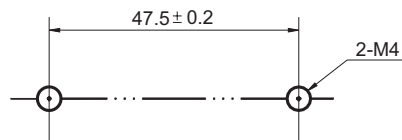
<b>JGX-1505FB /</b>		<b>D-</b>	<b>240</b>	<b>A</b>	<b>10</b>	<b>Z</b>	<b>-L</b>
<b>Type</b>							
<b>Input Voltage</b>	D: 3 to 32VDC    A: 90 to 280VAC						
<b>Load Voltage</b>	240: 240V    380: 380V						
<b>Load Voltage form</b>	A: AC						
<b>Load Current</b>	10: 10Amp    15: 15Amp    20: 20Amp    25: 25Amp    40: 40Amp						
<b>Zero Cross Function</b>	Z: Zero cross turn-on    P: Non-zero cross turn-on						
<b>LED indicator</b>	L: With LED    Nil: Without LED						

## OUTLINE DIMENSIONS, WIRING DIAGRAM AND MOUNTING HOLES

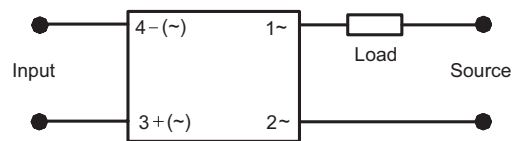
Outline Dimensions



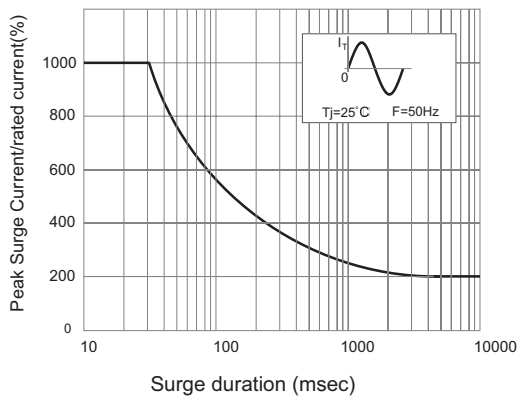
Mounting hole layout



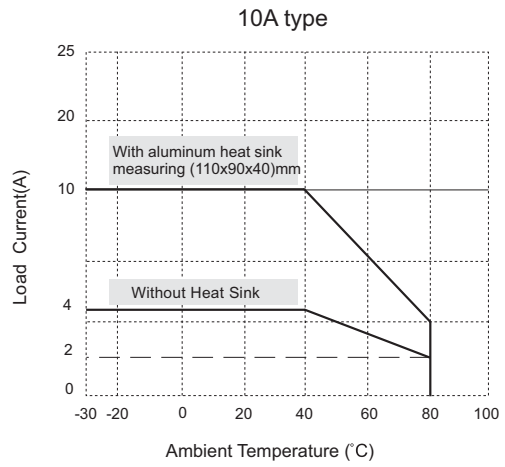
Schematics



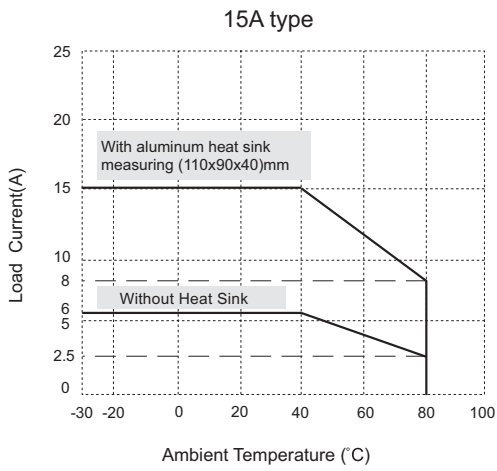
## CHARACTERISTICS CURVE



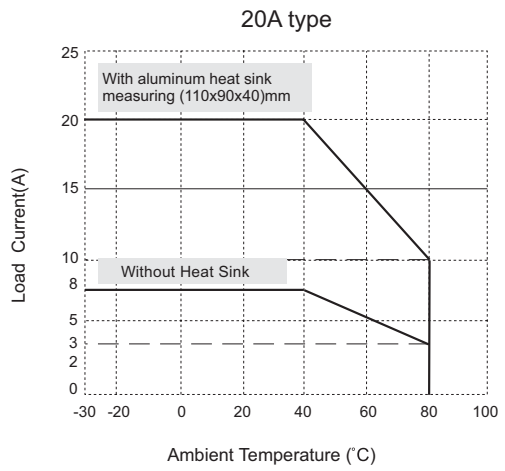
Max.Surge Current vs.duration Time



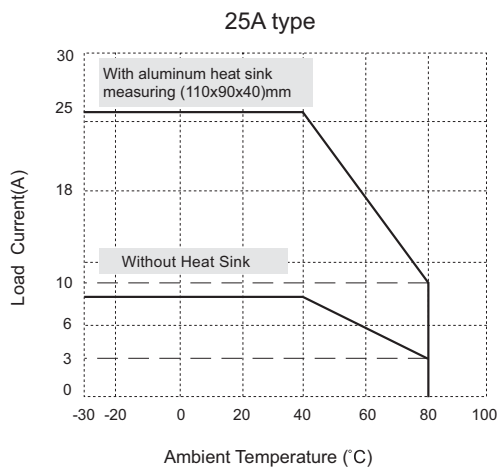
Max. load Current vs. Ambient Temp.



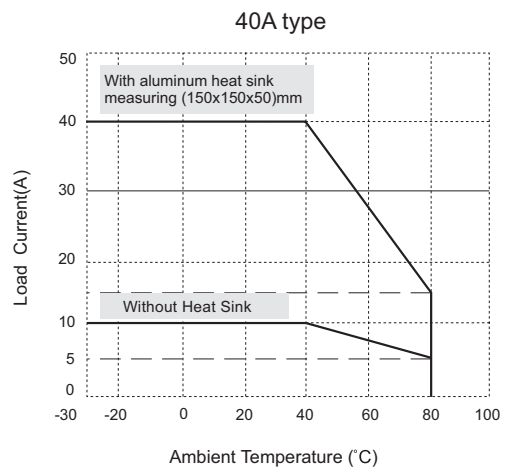
Max. load Current vs. Ambient Temp.



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