

JGX-1505FB (HFS15)

SOLID STATE RELAY



File No: E133481



CQC02001001936



Features

- 4000V dielectric strength
- Photo isolation
- Built-in snubber
- Zero cross or random turn-on
- TRIAC AC output
- Panel mount
- DC or AC control
- With LED indicator or not
- Environmental protection product available (RoHs & WEEE compliant)

DESCRIPTION

The JGX-1505FB offer 3-32VDC, 110VAC, or 220VAC 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)	85 to 132VAC (110V input) 175 to 264VAC (220V input)
Must operate voltage (DC input)	Max. 3VDC
Must operate voltage (AC input)	85 VAC (110V input) 175 VAC (220V input)
Must release voltage (DC input)	Min. 1.0VDC
Must release voltage (AC input)	10VAC
Maximum input current (DC input)	25mA (at 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		
	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	5mA	5mA	5mA	5mA	5mA
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 (50/60Hz, 1min.)				
Insulation resistance	1000MΩ (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、OHSAS18001 CERTIFIED

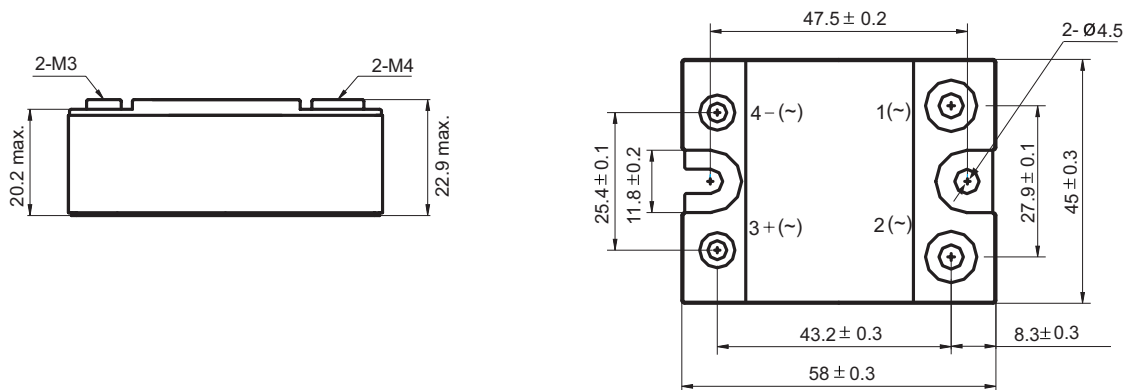
VERSION: EN02-20050301

ORDERING INFORMATION

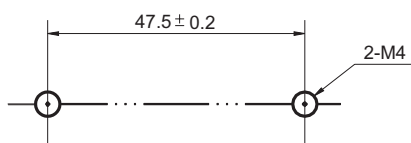
JGX-1505FB / D- 240 A 10 Z -L XXX	
Type	
Input voltage	D: 3 to 32VDC 110A: 110VAC 220A: 220VAC
Load voltage	240: 240V 380: 380V
Load voltage form	A: AC
Load current	10: 10Amp 15: 15Amp 20: 20Amp 25: 25Amp 40: 40Amp
Zero cross function	Z: Zero cross turn-on P: Non-zero cross turn-on
LED indicator	L: With LED Nil: Without LED
Special request code	(For example: 551: Lead-free 555: RoHs & WEEE compliant)

OUTLINE DIMENSIONS, WIRING DIAGRAM AND MOUNTING HOLES

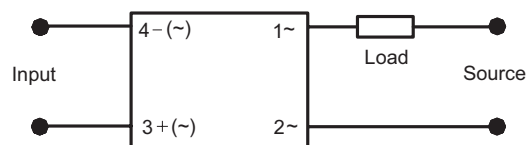
Outline Dimensions



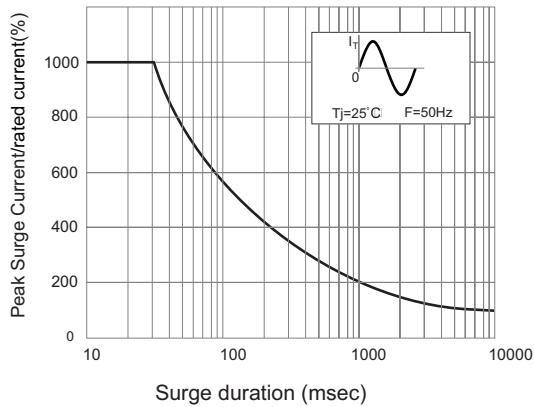
Mounting Hole Layout



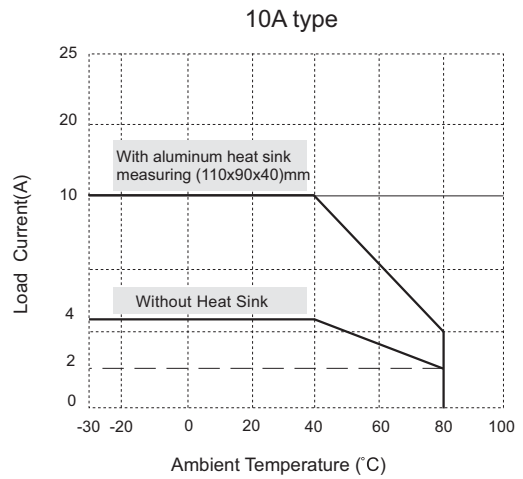
Schematics



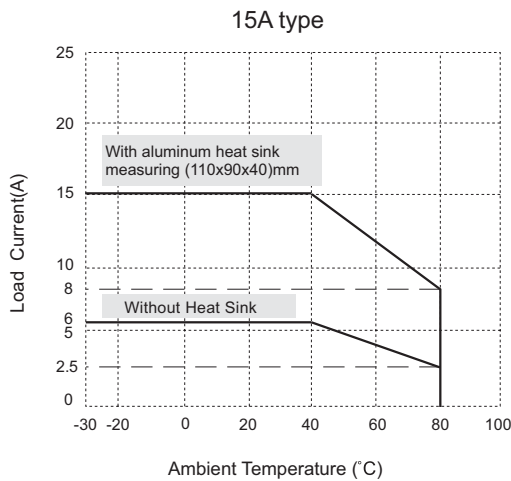
CHARACTERISTICS CURVE



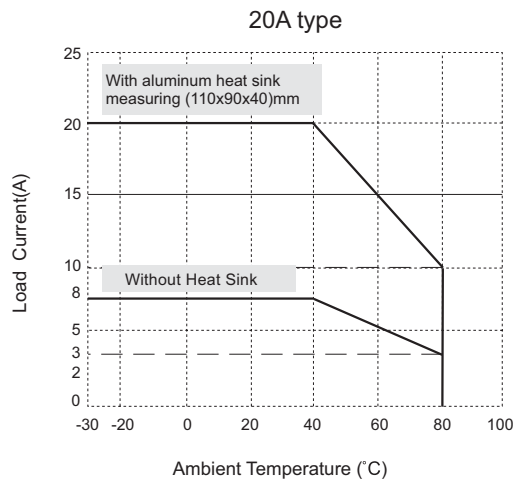
Max. Surge Current vs. duration Time



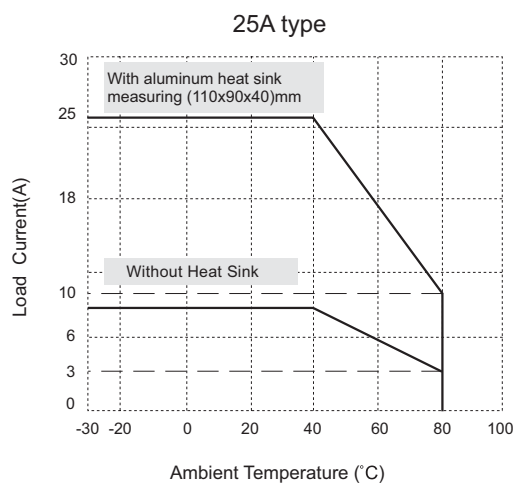
Max. load Current vs. Ambient Temp.



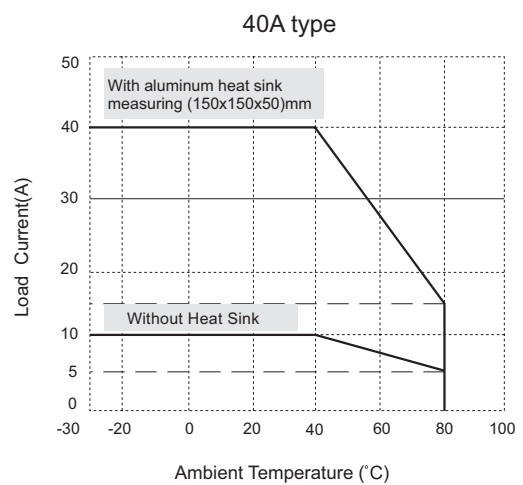
Max. load Current vs. Ambient Temp.



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