

SGX-1505FB

“HOCKEY PUCK” SOLID STATE RELAY 10 THRU 40 AMPS 48 TO 380 VRMS

FEATURES

- Photo isolation
- Up to 800V blocking voltage
- Both “Zero Voltage” and phase controllable
“Random” Switching versions
- High surge capability
- Built-in snubber
- UL, CUR file E43203
- Triac Output Circuitry



INPUT

Type	DC Input	24 VAC	110 VAC	220 VAC
Control Voltage Range	3 to 32 VDC	19.2 to 28.8 VAC	85 to 132 VAC	175 to 264 VAC
Turn On Voltage	3 VDC Max	19.2 VAC Max.	85 VAC Max.	175 VAC Max.
Turn Off Voltage	1 VDC Min.	2 VAC Min.	10 VAC Min.	10 VAC Min.
Max. Input Current	25 mA	15 mA	15 mA	15 mA
Max. Reverse Voltage	-32 VDC	-	-	-

OUTPUT

Type	240	380	480
Output Voltage Range	48 to 264 VAC	48 to 380 VAC	48 to 530 VAC
Blocking Voltage	600 Vpk	800 Vpk	1200 Vpk
Max. Leakage Current (off)	5 mA	5 mA	5 mA
Max. Voltage Drop (at rated current)	1.5 VRMS		
Max. Turn-On Time	Random Turn On (DC input): 1 ms Zero Cross Turn On (DC input): 1/2 cycles + 1 ms AC Input: 20 ms		
Max. Turn-Off Time	DC Input: 1/2 cycle + 1 ms AC Input: 40 ms		
Min. Off-State (dv/dt)	200 V/us		
Min. Power Factor	0.5		

GENERAL

Dielectric Strength	4000 Vrms min. (at 50/60 Hz, 1 min.)
Insulation Resistance	1000 Min. (at 500 VDC)
Max. Capacitance (in/out)	8 pf
Ambient Temperature	Operating: -30°C (-22°F) to 80°C (176°F) Storage: -30°C (122°F) to 100°C (212°F)
	Panel Mount
Termination	Screw
Weight	88g



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RELAY ORDERING DATA

SGX-1505FB

D

240

A

40

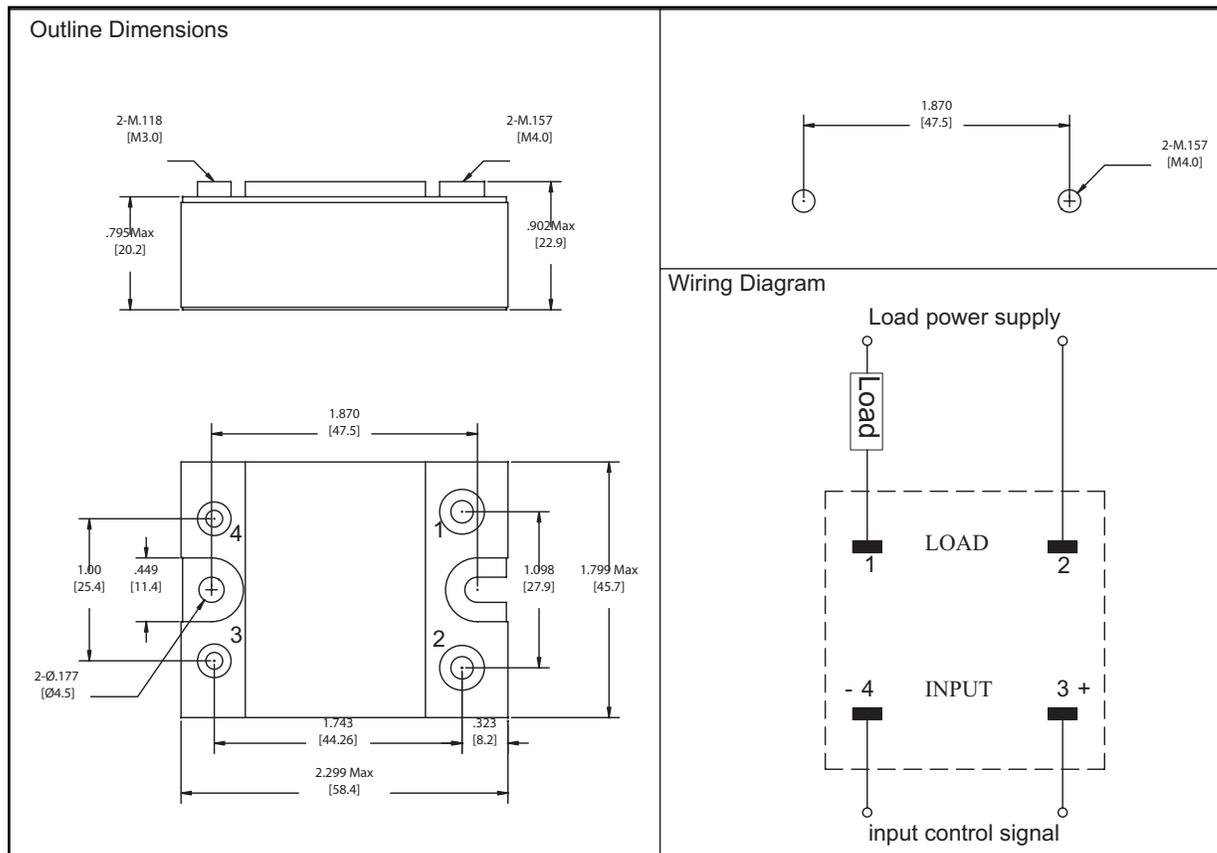
Z

L

MODEL	INPUT VOLTAGE	OPERATING VOLTAGE RANGE	LOAD TYPE	LOAD CURRENT	ZERO CROSS OR RANDOM	LED INDICATOR
	D: 3 TO 32 Vdc 24A: 24 Vac* 110A: 110 Vac* 220A: 220 Vac*	240:48 TO 264 Vac 380: 48 to 380 Vac	A: AC LOAD	10: 10A 15: 15A 20: 20A 25: 25A 40: 40A	Z: Zero cross turn on P: Random turn on	NIL: no LED L: with LED (not for AC input type)

*UL pending

MECHANICAL DATA



Dimensions in inches with metric equivalents in parentheses. Tolerance: $\pm .010$ "

INSTALLATION

- When mounting the relays side by side, provide a space equivalent to the width of a single SSR between two adjacent SSRs. Otherwise, reduce the load current flow to 1/2 to 1/3 of the rated current.
- When mounting relays on heat sink surface, first apply a heat conductive grease to the metal back surface of the SSR. Press the SSR firmly onto the heat sink to ensure a good seal. Screw the SSR down to the heat sink.
- Next, wire the screw terminals and securely tighten the screws.

PRECAUTIONS

- Before connecting a load that generates a high surge current, such as a lamp load to the SSR, make sure that the SSR can withstand the surge current of the load.
- 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 a surge current exceeding that value is expected, connect a quick-blowing fuse to protect the SSR.



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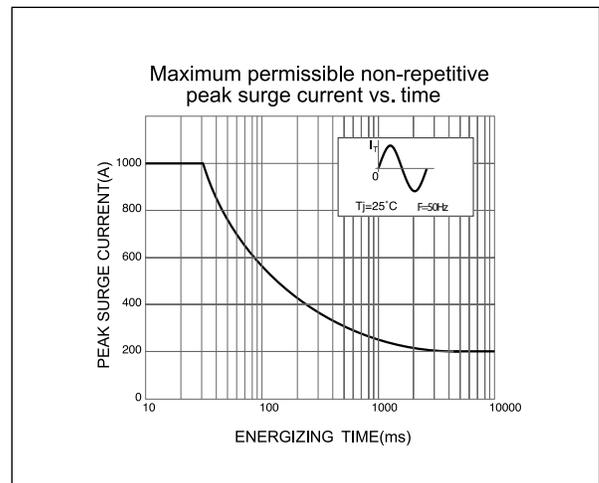
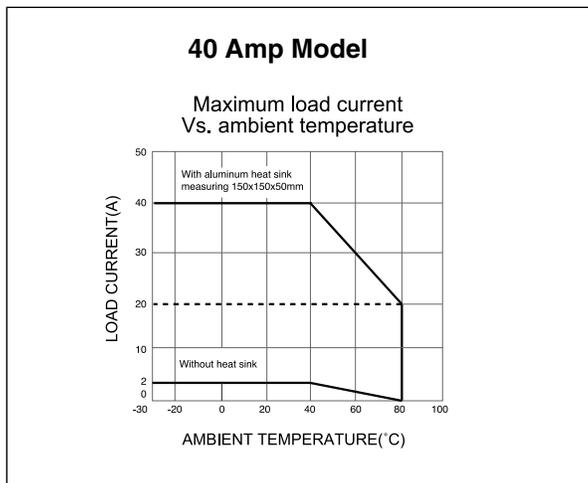
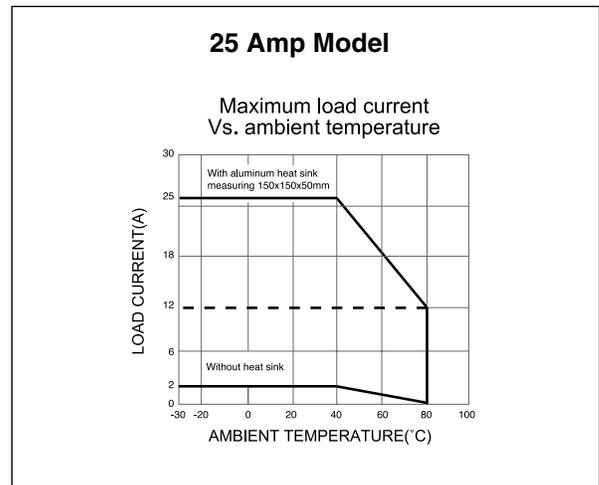
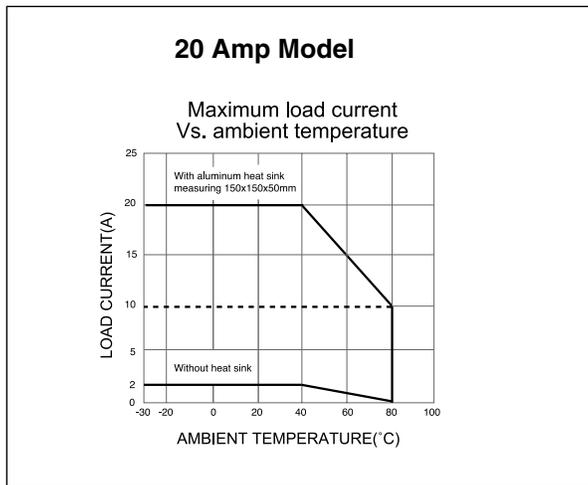
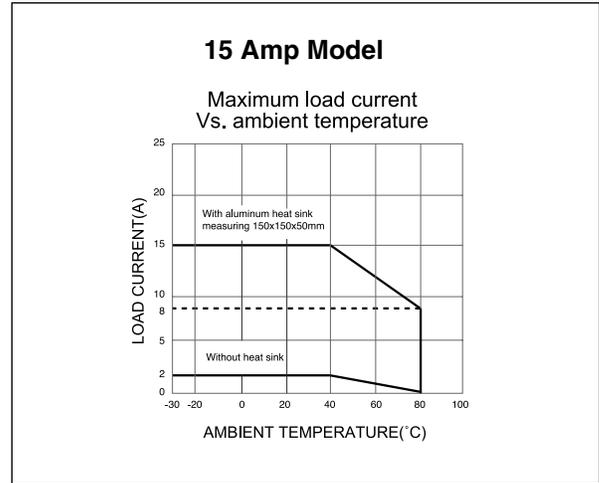
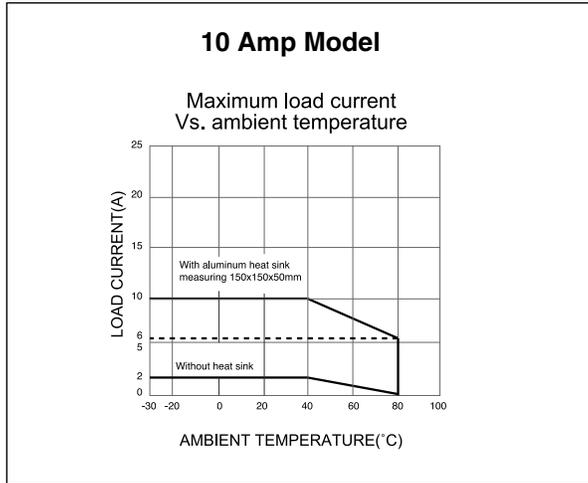
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CHARACTERISTIC CURVES



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