

Solid State Contactors for Heaters

G3PE-515B-3N DC12-24

No Image
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Image

SCR output (Heater control), Input: 12 to 24 VDC, Output: 15A 200 to 480 VAC, 3PST-NO, Zero cross function, with Indicator, Screw terminal, Number of elements: 3

Product classification	Solid State Relay for heater control
Operating rated voltage	12 to 24 VDC
Load voltage range	180 to 528 VAC
Load current	0.5 A to 15 A at 40 °C
Zero cross function	Equipped
Indicator	Input indicator (INPUT (Yellow): Operating)
Terminal structure	Screw terminal

Ratings / Performance

As of February 2, 2017

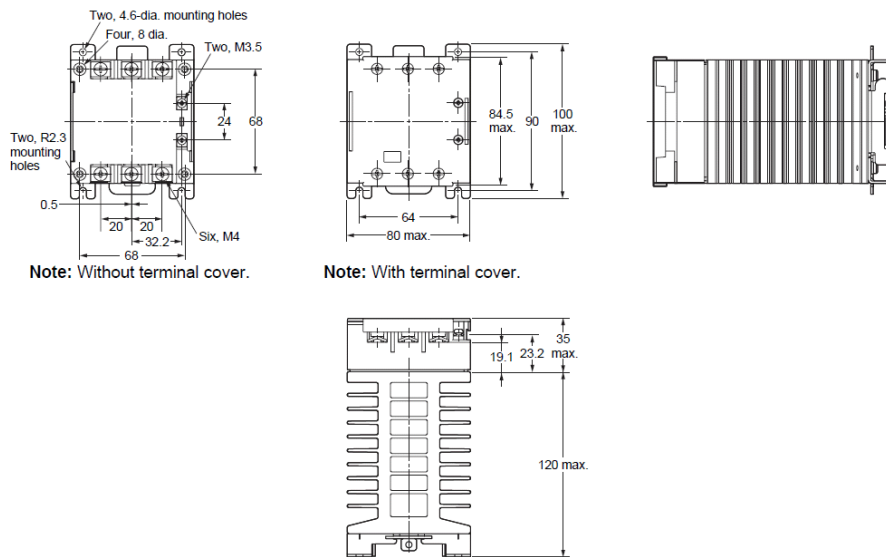
Product classification	Solid State Relay for heater control
Number of elements	3
Operating rated voltage	12 to 24 VDC
Operating voltage range	9.6 to 30 VDC
Must operate voltage	9.6 VDC max.
Must release voltage	1 VDC min.
Isolation method	Phototriac
Rated load voltage	200 to 480 VAC
Load voltage range	180 to 528 VAC
Load current	0.5 A to 15 A at 40 °C
Inrush current resistivity	220 A (60 Hz, 1 cycle) 220 A (60 Hz, 1 cycle)
Output ON voltage drop	1.8 V (RMS)
Leakage current	20 mA (at 480 VAC)
Ambient temperature	Operating: -30 to 80 °C Storage: -30 to 100 °C (with no icing or condensation)
Ambient humidity	Operating: 45 to 85%RH (with no icing or condensation)
Operate time	1/2 cycle of load power source + 1 ms max.
Release time	1/2 cycle of load power source + 1 ms max.
Zero cross function	Equipped
Indicator	Input indicator (INPUT (Yellow): Operating)
Insulation resistance	100 MΩ (at 500 VDC)

Dielectric strength	2500 V 50/60 Hz 1 min
Vibration resistance	10 to 55 to 10 Hz, 0.175-mm single amplitude (0.35-mm double amplitude)
Shock resistance	294 m/s**2 (98 m/s**2 with reverse mounting)
Terminal structure	Screw terminal
Mounting	DIN track
Weight	Approx. 1250 g

As of February 2, 2017

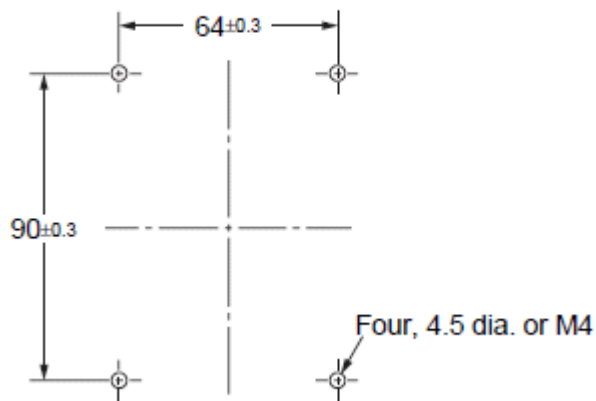
Dimensions

As of February 2, 2017



Mounting holes

Mounting Holes

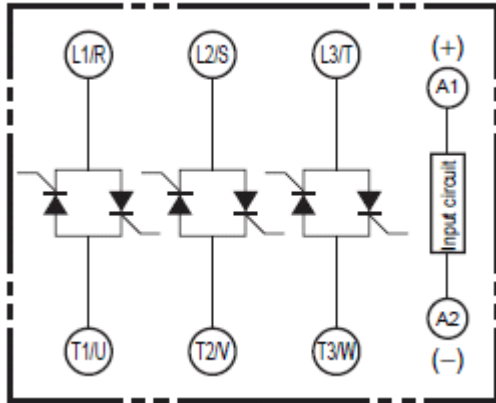


As of February 2, 2017

Connection diagram

As of February 2, 2017

Terminal arrangement and internal connection

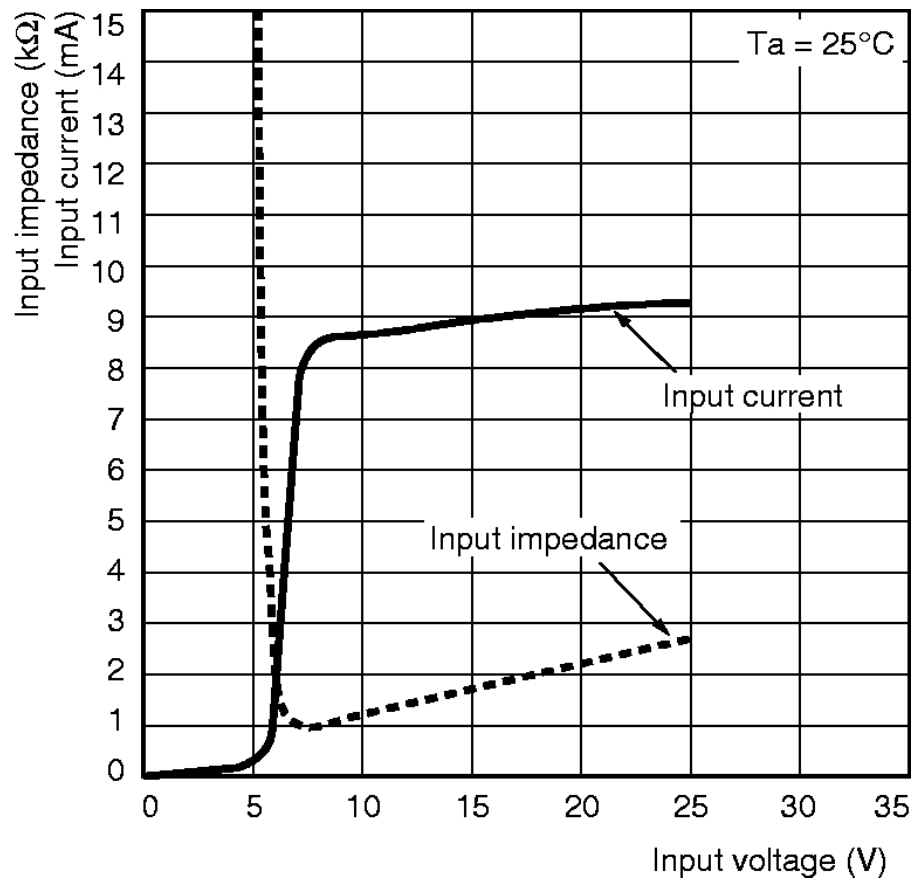


As of February 2, 2017

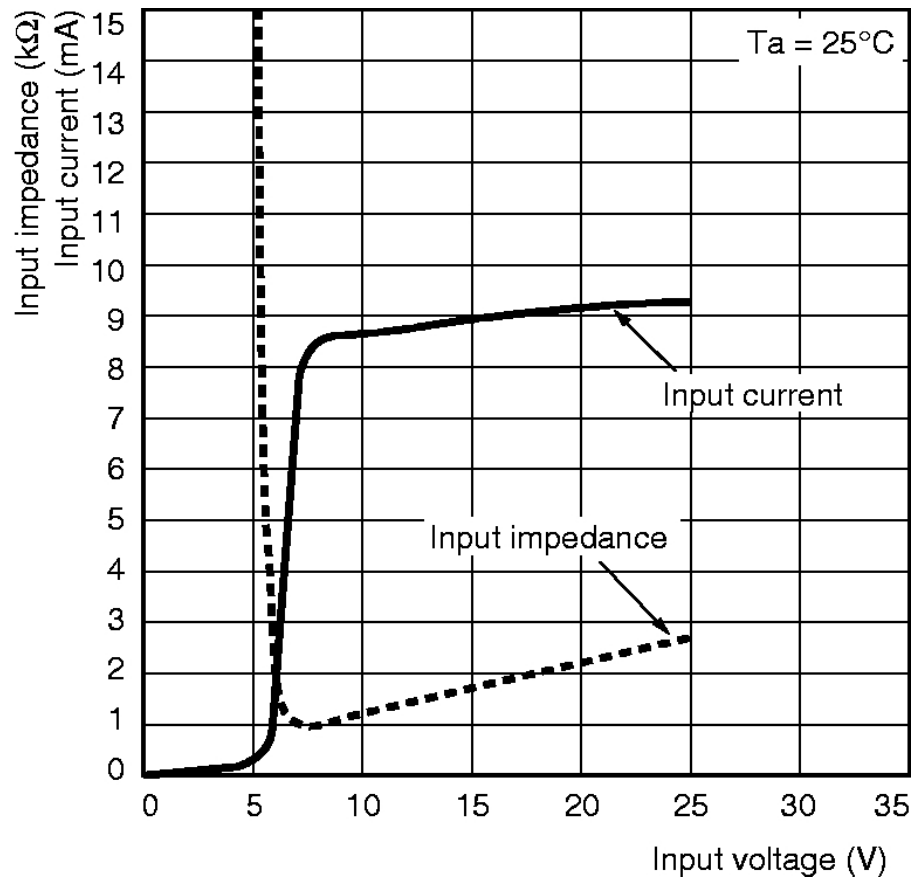
Characteristic figure

As of February 2, 2017

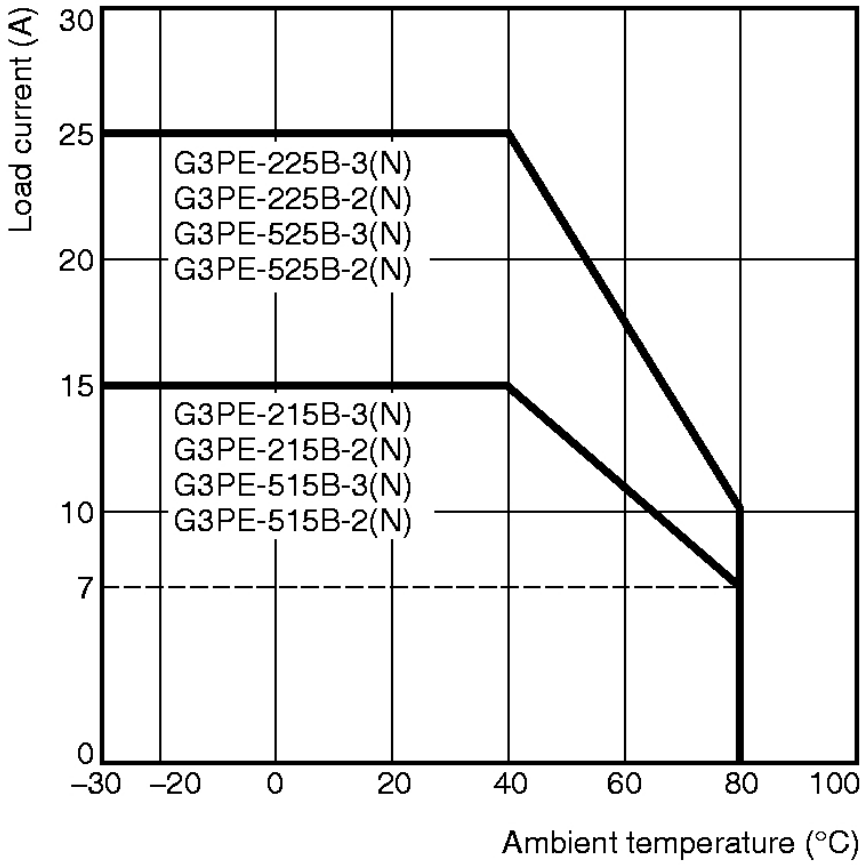
Input voltage vs. input current



Input voltage vs. input impedanceE00000933661.gif



Load current-ambient temperature



Inrush current resistivity (Non-repetitive) (The dotted line is a repetition. Keep the inrush current below the values shown by the dotted line if it occurs repetitively.)

