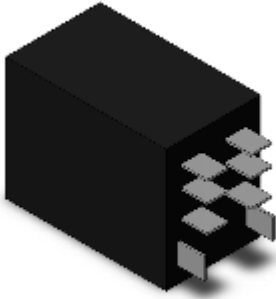


Solid State Relays G3□-VD

G3H-203SLN-VD DC24



Image

Solid State Relay, Phototriac, Applied output load: 3 A at 100 to 240 VAC, Rated input voltage: 24 VDC, Without Zero cross function, With Operating indicator, Plug-in terminal, Certified by UL, CSA, and EN (TÜV certification)

Product classification	Relay compatible
Zero cross function	None
Operating indicator	Equipped
Rated voltage	24 VDC
Rated load voltage	100 to 240 VAC
Load current	0.1 to 3 A (at 40 °C)
Terminal structure	Plug-in terminal

Ratings / Performance

As of November 15, 2024

Ratings

Product classification		Relay compatible
Isolation method		Phototriac
Zero cross function		None
Operating indicator		Equipped
Terminal structure		Plug-in terminal
Mounting		Socket
Input	Rated voltage	24 VDC
	Operating voltage range	19.2 to 28.8 VDC
	Input impedance	2 kΩ±20%
	Operate voltage	19.2 V max.DC
	Release voltage	1 V min.DC
Output	Rated load voltage	100 to 240 VAC
	Load voltage range	75 to 264 VAC
	Load current	0.1 to 3 A (at 40 °C)
	Inrush current resistivity	45 A (60 Hz 1 cycle)

Performance

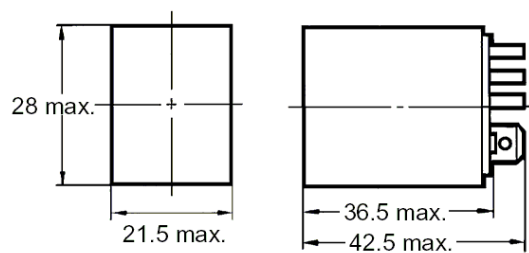
Operate time	1 ms max.
Release time	1/2 cycle of load power source + 1 ms max.
Output ON voltage drop	1.6 V max. (RMS)
Leakage current	2.5 mA max. (at 100 VAC) 5 mA max. (at 200 VAC)
Insulation resistance	100 MΩ min. (at 500 VDC)
Dielectric strength	2000 VAC 50/60 Hz 1 min

Vibration resistance	10 to 55 to 10 Hz, 0.75 mm single amplitude (1.5 mm double amplitude)
Shock resistance	1000 m/s ²
Ambient temperature (Operating)	-30 to 80 °C (with no freezing or condensation)
Ambient temperature (Storage)	-30 to 100 °C (with no freezing or condensation)
Ambient humidity (Operating)	45 to 85 %
Weight	Approx. 50 g
Other feature	Certified by UL, CSA, and EN (VDE)
Connecting socket	PT08/ PTF08A/ PT08-0/ PT08QN/ PTF-08-PU/ PTFZ-08-E

As of November 15, 2024

Outline drawing

As of November 15, 2024



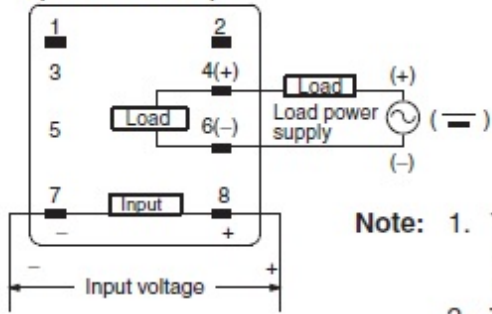
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Connection diagram

As of November 15, 2024

Terminal arrangement and internal connection

(Bottom View)



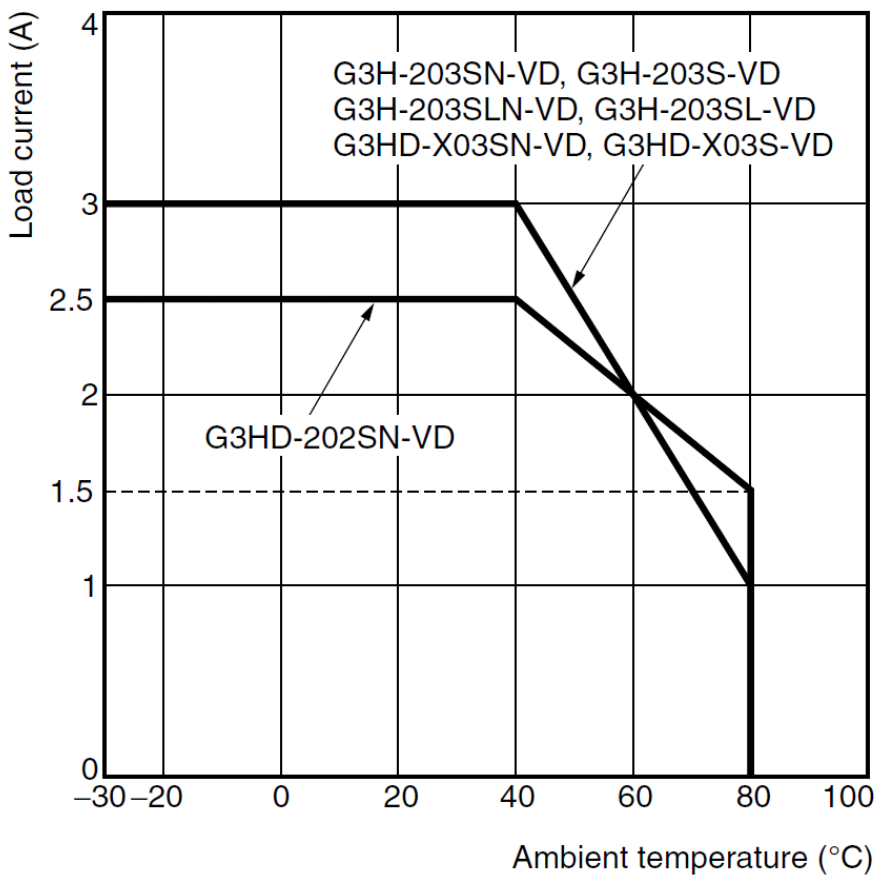
- Note:**
1. The plus and minus symbols shown in the parentheses are for DC loads.
 2. The coil has no polarity.
 3. The load is possible to connect either + side or - side.

As of November 15, 2024

Characteristic chart

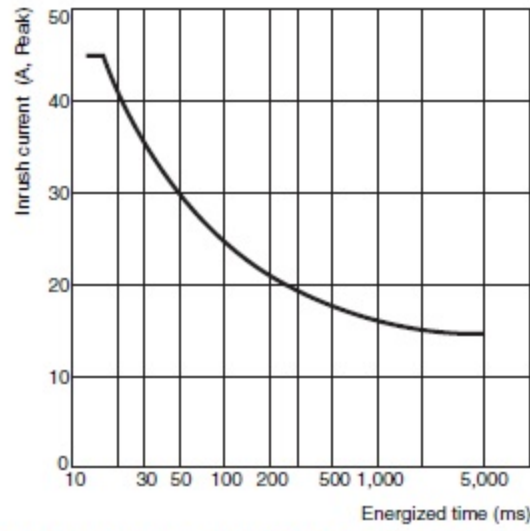
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Load current-ambient temperature



Inrush current resistivity (Non-repetitive)

**G3H-203SN-VD/203S-VD/203SLN-VD/
G3H-203SL-VD**



Keep the inrush current to half the rated value if it occurs repetitively.

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