

VGX SERIES POTENTIOMETER CONTROL SSR



Features

- Standard structure and convenient mounting
- Photoelectric isolation between input and output; the isolation voltage up to 2500V
- Insulation voltage: 2500V
- Adopting "vacuum + hydric protection" soldering SCR wafer technology for copper bottom plate
- Input control voltage: DC5V
- Control signal: automatic: 0~5Vdc or 4~20mA, manual: 10K potentiometer

Ordering Options

VGX

VGX Series

4-20mA or 0-5V
or 10K potentiometer
control SSR relay

10

Load Current

10: 10Amps 80: 80Amps
25: 25Amps 100: 100Amps
40: 40Amps 120: 120Amps
60: 60Amps

P

Control Voltage

P: 4-20mA or 0-5V
or 10K

A48

Output Voltage

A28: 24-280VAC
A48: 48-480VAC

Product Selection

Control Voltage	Output Voltage	Rated Operational Current						
		10Amps	25Amps	40Amps	60Amps	80Amps	100Amps	120Amps
4-20mA or 0-5V or 10K	280VAC	VGX10PA28	VGX25PA28	VGX40PA28	VGX60PA28	VGX80PA28	VGX100PA28	VGX120PA28
	480VAC	VGX10PA48	VGX25PA48	VGX40PA48	VGX60PA48	VGX80PA48	VGX100PA48	VGX120PA48

Input Specifications

Parameter-list	Units	Value
Control Voltage	VDC	5
Signal Voltage Range	VDC	0-5
Input Current [Max.]	mADC	<2
Potentiometer	KΩ	10

Output Specifications

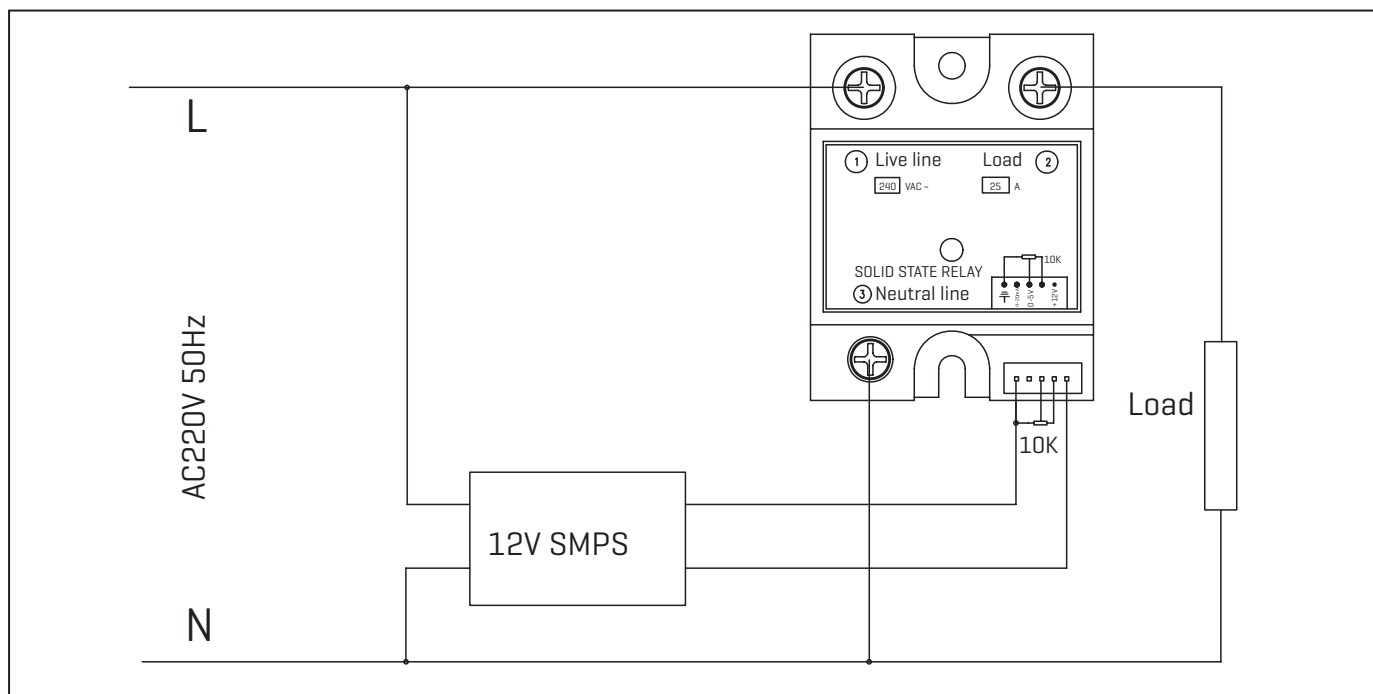
Output Parameter	Units	Specification Limits						
Model No.: VGX	Amps	10	25	40	60	80	100	120
Load Current Range	Arms	0.05 to 10	0.05 to 25	0.05 to 40	0.1 to 60	0.1 to 80	0.1 to 100	0.1 to 120
Surge Current 20mSec [Max.]	Arms	85	230	400	600	800	1000	1200
Load Voltage Range [280V]	Vrms	24 to 280						
Transient Overvoltage [280V]	Vpk	≥600						
Load Voltage Range [480V]	Vrms	48 to 480						
Transient Overvoltage [480V]	Vpk	≥1000						
Frequency Range	Hz	47 to 63						
Off State dv/dt [Min.]	V/μsec	500						
Off State Leakage Current [Max.]	mArms	≤8			≤10			
On State Voltage Drop [Max.]	Vrms	1.6	1.6	1.6	1.8	1.8	1.8	1.8
Thermal Resistance, [Rthjc]	°C/W	2.5	2.5	1.3	0.65	0.5	0.3	0.3

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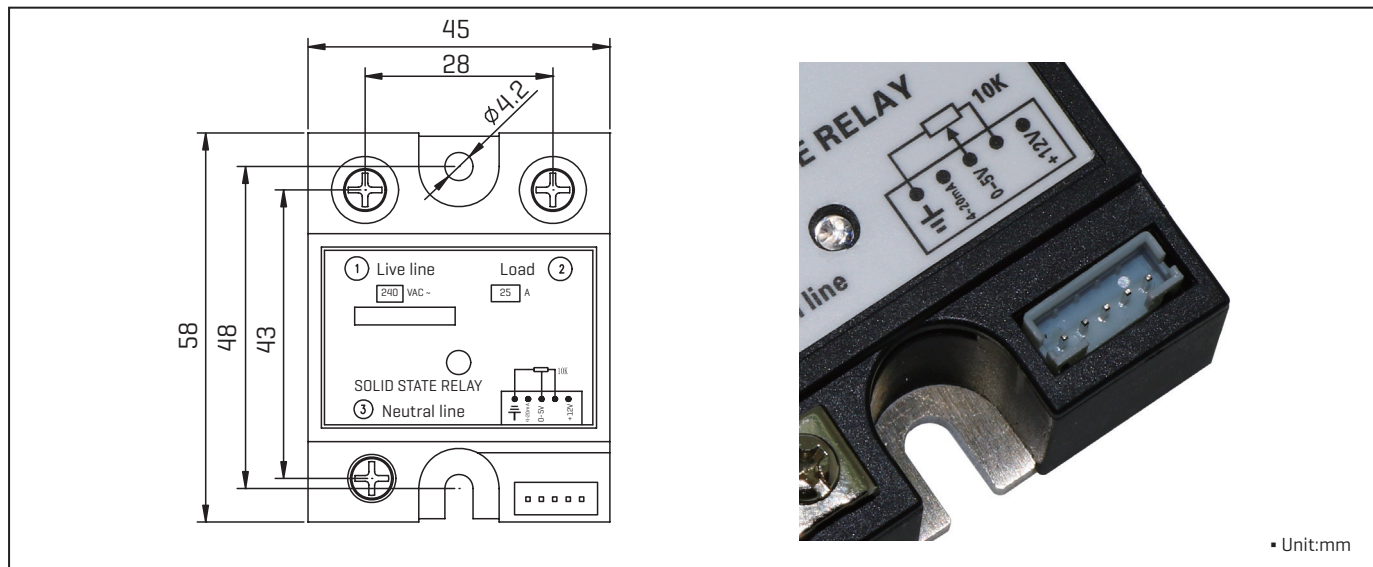
General Specifications [Ta=25°C]

Description	10A	25A	40A	60A	80A	100A	120A
Dielectric Strength, Input to Output [50/60 Hz]	2500Vrms						
Dielectric Strength, Input/Output to Base [50/60 Hz]	2500Vrms						
Minimum Insulation Resistance [@ 500 VDC]	$10^9 \Omega$						
Maximum Capacitance, Input/Output	10pF						
Ambient Operating Temperature Range	-30 to 80°C						
Ambient Storage Temperature Range	-30 to 100°C						
Humidity per IEC60068-2-78	95%						
LED Input Status Indicator	Red						
Baseplate Material	Pure copper						
Weight	150g						

Connection Diagram



Dimensions



• Unit:mm