GV series voltage adjustable integrated solid state module

4-20mA or 0-5V or 10K potentiometer input SSR, Control SSR

The GV series voltage adjustable integrated solid state module is newly developed according to customers' requests. It is characterized by input-output photoelectric isolation, integrated phase shift voltage adjustable circuit with main circuit, smart size, light weight, long service lifetime, big control power, stepless adjustment and high insulation voltage etc. It can control power of loads on output side automatically by changing the input voltage or by potentiometer manually. Meanwhile, due to its high input resistance and internal synchronization, through digital analogue converter, it can connect to computer, digital remote control, 0 5V or 4 20mA meters directly and make stepless adjustment for voltage, power of loads on output side conveniently. The TRIAC output are mainly applicable for resistive loads; The SCR output are mainly applicable for inductive loads. This product is widely used for lighting adjustment in illumination devices, temperature control in civil and industrial heating and soft start control etc

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
- the anti-parallel SCR for those models with suffix "H", good heat performance and long service lifetime
- Input control voltage: DC5V
- Control signal: automatic: 0~5Vdc or 4~20mA, manual: 10K potentiometer
- Rated working voltage: 240V-440V
- Max output current: 10~120A

Selection Guide

Voltage	Output Mode	10A	15A	25A	40A
240Vac	TRIAC	GV1024D	GV1524D	GV2524D	GV4024DH
440Vac		GV1044D	GV1544D	GV2544D	GV4044DH
280Vac	SCR	GV1028DH	GV1528DH	GV2528DH	GV4028DH
480Vac		GV1048DH	GV1548DH	GV2548DH	GV4048DH
Voltage	Output Mode	60A	80A	100A	120A
280Vac	SCR	GV6028DH	GV8028DH	GV10028DH	GV12028DH
480Vac		GV6048DH	GV8048DH	GV10048DH	GV12048DH

Specification

Input parameter	Units	Value
Control Voltage	Vdc	5
Signal Voltage range	Vdc	0-5
Input Current(Max.)	mAdc	<2
Pontesiometer	KΩ	10

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Specification

Output Parameter	Units	Specification Limits			
Model No.:GV	Amp	10	15	25	40
Load Current Range	Arms	0.05-10	0.05-15	0.05-25	0.05-40
Surge Current 20mSec(Max.)	Arms	80	115	230	400
SCR Over voltage(240V)	Vpk	≥600	≥600	≥600	≥800
SCR Over voltage(440V)	Vpk	≥1000	≥1000	≥1000	≥1200
Thermal Resistance,(Rthjc)	°C/w	2.5	2.5	1.3	1.3
Frequency Range	Hz	47 to 63			
Off State dv/dt (Min.)	V/μsec	500			
Off State Leakage Current(Max.)	mArms	≤8			
On-state angle range		0-170°			
Dielectric (Input/Output)	Vrms	2500			
Dielectric (Input-Output/Base)	Vrms	2500			
Capacitance	pf	10			
Ambient Temperature Range	Operating or Storage -30°C to +80°C				
Weight (Typical)	144g				
Base Plate	Copper, nikel-plated				
Case Color	Black				
Led Display	Yes				

Output Parameter	Units	Specification Limits			
Model No.:GV	Amp	60	80	100	120
Load Current Range	Arms	0.05-60	0.05-80	0.05-100	0.05-120
Surge Current 20mSec(Max.)	Arms	600	1000	1200	1500
SCR Over voltage(240V)	Vpk	≥800	≥800	≥800	≥800
SCR Over voltage(440V)	Vpk	≥1200	≥1200	≥1200	≥1200
Thermal Resistance,(Rthjc)	°C/w	0.65	0.5	0.3	0.3
Frequency Range	Hz	47 to 63			
Off State dv/dt (Min.)	V/μsec	500			
Off State Leakage Current(Max.)	mArms	≤10			
On-state angle range		0-170°			
Dielectric (Input/Output)	Vrms	2500			
Dielectric (Input-Output/Base)	Vrms	2500			
Capacitance	pf	10			
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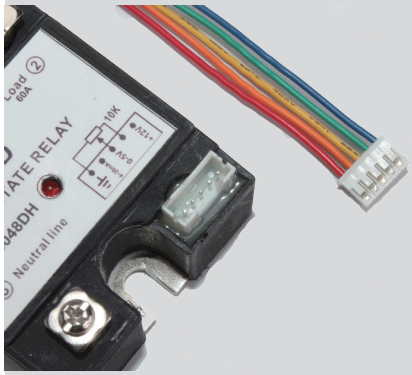

Dimension