HGK Series DC Solid State Relay

Load current DC3A up to 100A，Output voltage 0-60VDC、100VDC up to 1000VDC
Control voltage 3.5-32VDC

Electronic

DESCRIPTION

QT/YHL3859-2000
Technicla information

FEATURES

- MOSFET output
- Low On-state resistance
- Input signal is compatible with TTL and CMOS
- Input and output light isolated
- LED indicating operation
- With safety cover,panel mount
- 100% tested at rating current,CE conpliant

SELECTING CODE

HGK - D06 10 D

Series name	Output voltage	Output current	Control voltage
	D06:0-60VDC D11:0-110VDC D22:0-220VDC …… up to 1000VDC (as required)	05:0.01-5A 10:0.01-10A 15:0.01-15A 25:0.01-25A 40:0.01-40A 50:0.01-50A	D:3.5-32VDC

APPLICATIONS

HGK DC Series Solid State Relays, adapting ignition-proof engineering cover, unique sculpt, original architecture, screw thread connection with safety cover have the features of hard structure, vibration-proof capability high, input driving current small convenient to interface with terminals of computer and various digital tele-control circuit. This products are widely used in the fields of petrochemical equipment, foodstuff-producing mechanism, packaging machines, textile and plastic, mechanisms, tool numerical control, gymnasium equip. Specialities be the same with canker, aquosity request prevent explode scurvines circumstance, and often switch of occasion.

GENERAL PARAMETERS

Dielectric strength …… 50Hz,1min
…… 2500V input to output
…… 4000V input, output to base
Min.insulation resistance…1000MΩ@ 500VDC
Max. Capacitance Input/Output …… 50pF
Ambient operating temperature…-30℃ to 80℃
Ambient storage temperature… -40℃ to 125℃
Weight(typical)…… 65g

INPUT PARAMETERS

Control voltage range…… 3.5-32VDC
Max.turn-on voltage…… 3.5VDC
Min.turn-off voltage…… 1VDC
Typical input current…… 1.8mA@5VDC
……29mA@32VDC

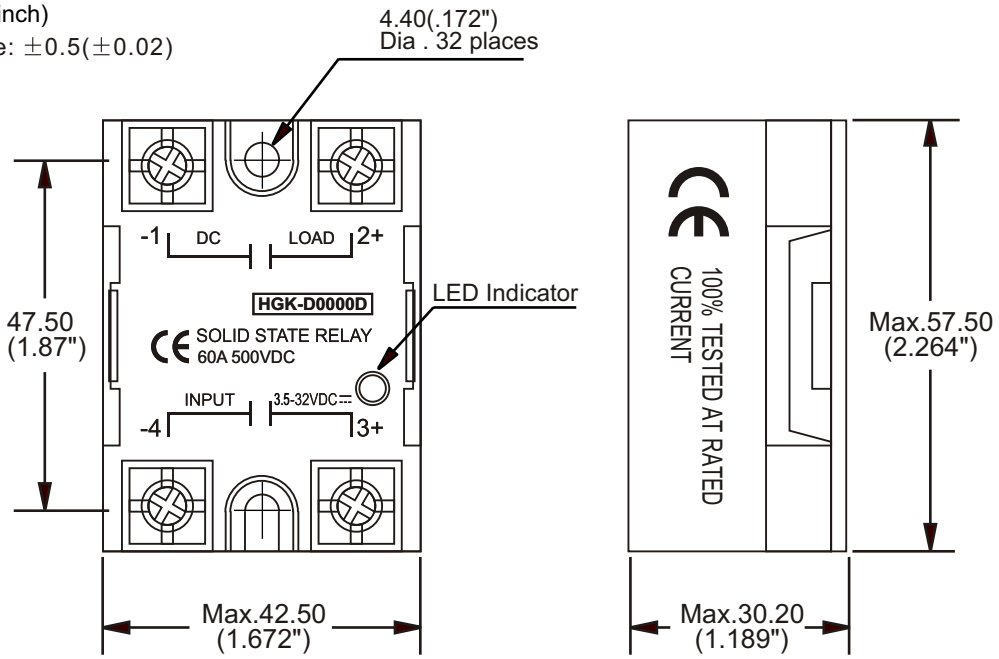
HGK Series DC Solid State Relay

Load current DC3A up to 100A，Output voltage 0-60VDC、100VDC up to 1000VDC
Control voltage 3.5-32VDC

Electronic

DIMENSIONS

Unit: mm(inch)
Tolerance: ±0.5(±0.02)



PRECAUTIONS

- Heatsink should be used when the current is up to 5 Amperes(please view the load current curve for heatsink choice) and heat-conductive silicate should be spreaded between the heatsink and the base to reduce the thermoresistor.
- Although some DC load is not marked as inductive, you should regard it is ,because the SSR is an ideal switch which output through MOSFET. When it is turned off, high transient voltage and surge current will produced and added to the output thus will result in the damage or misturn-on. Generally speaking, some special clamping device should be used to control the voltage, such as recovery diode of which the voltage should be higher than the load power.
- To avoid the temperature exceeding the allowance, heatsink efficiency and the mounting position should be regaded ,suitable space should be left when two or more SSR are mounted.
- Two or more of the series can be used in parallell to enlarge the load current.
- The input end can be used either mean(parallel/series) when sharing a control power supply.
- Please contact HALON application engineering department for additional information and specific application questions.