



Features

- Rating of 15A, 25A, 40A, 60A
- Output voltage of 24-480VAC and 24-600VAC
- Control voltage of 4-32VDC and 90-280VAC.
- Zero Crossing or Random-on Switching.
- Integrated IP20 touch-safe removable covers.
- LED input status indicator.
- Integrated Heatsink
- DIN Rail and Panel Mount

Ordering Options

GSR8

GSR8 Series

Single Phase
Solid State Relay

25

Load Current

15: 15Amps
25: 25Amps
40: 40Amps
60: 60Amps

D

Control Voltage

D: 4-32VDC
A: 90-280VAC

A60

Output Voltage

A48: 24-480VAC
A60: 24-600VAC

Z

Switching Type

Z: Zero Cross Turn-on
R: Random Turn-on

Product Selection

Control Voltage	Output Voltage	Rated operational current			
		15Amps	25Amps	40Amps	60Amps
4 to 32VDC	480VAC "Z"	GDR8-15DA48Z	GDR8-25DA48Z	GDR8-40DA48Z	GDR8-60DA48Z
4 to 32VDC	480VAC "R"	GDR8-15DA48R	GDR8-25DA48R	GDR8-40DA48R	GDR8-60DA48R
90 to 280VAC	480VAC "Z"	GDR8-15AA48Z	GDR8-25AA48Z	GDR8-40AA48Z	GDR8-60AA48Z
90 to 280VAC	480VAC "R"	GDR8-15AA48R	GDR8-25AA48R	GDR8-40AA48R	GDR8-60AA48R
4 to 32VDC	600VAC "Z"	GDR8-15DA60Z	GDR8-25DA60Z	GDR8-40DA60Z	GDR8-60DA60Z
4 to 32VDC	600VAC "R"	GDR8-15DA60R	GDR8-25DA60R	GDR8-40DA60R	GDR8-60DA60R
90 to 280VAC	600VAC "Z"	GDR8-15AA60Z	GDR8-25AA60Z	GDR8-40AA60Z	GDR8-60AA60Z
90 to 280VAC	600VAC "R"	GDR8-15AA60R	GDR8-25AA60R	GDR8-40AA60R	GDR8-60AA60R

Input Specifications

Description	Specification Limits	
Control Voltage Range	4-32VDC	90-280VAC
Maximum Reverse Voltage	-6VDC	/
Minimum Turn-On Voltage	4VDC	90VAC
Must Turn-Off Voltage	1V	10VAC
Minimum Input Current [for on-state]	10mA	6.5mA
Maximum Input Current [mA]	20mA	18mA
Maximum Turn-On Time [msec]	1/2 Cycle	1/2 Cycle
Maximum Turn-Off Time [msec]	1/2 Cycle	1/2 Cycle

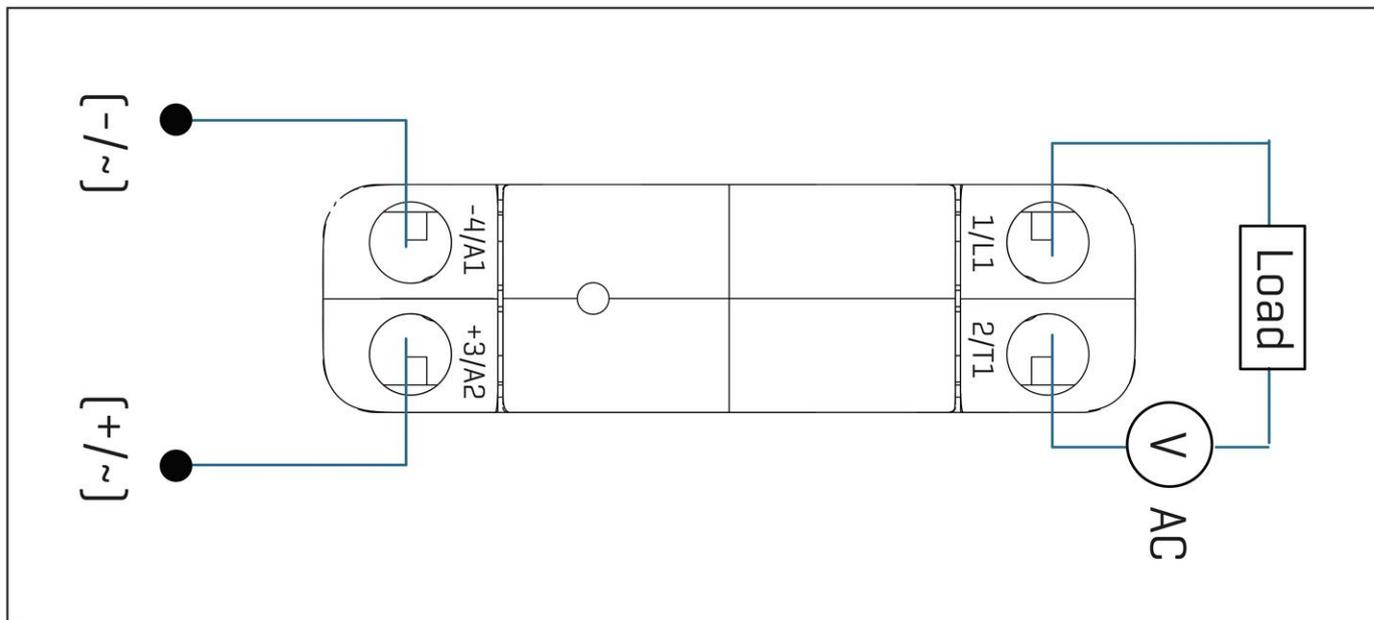
Output Specifications

Description	Units	Specification Limits			
		15	25	40	60
Model No.GSR	Amp	15	25	40	60
Load Current Range	Arms	0.05-15	0.05-25	0.05-40	0.1-60
Surge Current 10mSec(Max.)	Arms	150	250	400	600
Load Voltage Range [480V]	Vrms	24-480			
Transient Overvoltage [480V]	Vpk	800			
Load Voltage Range [600V]	Vrms	24-600			
Transient Overvoltage [600V]	Vpk	1200			
Operating Frequency Range	Hz	47~63			
Off State dv/dt [min.]	V/μs	200	200	200	500
Off State Leakage Current [Max.]	mA	≤8			
On State Voltage Drop [Max.]	Vrms	1.5	1.5	1.5	1.6
Turn On Time [Max.] "Zero-crossing"	Cycle	1/2			
Turn On Time [Max.] "Random-on"	mSec	1			
Turn-off Time [DC input]	Cycle	1/2			
Turn-off Time [AC input]	mSec	10			

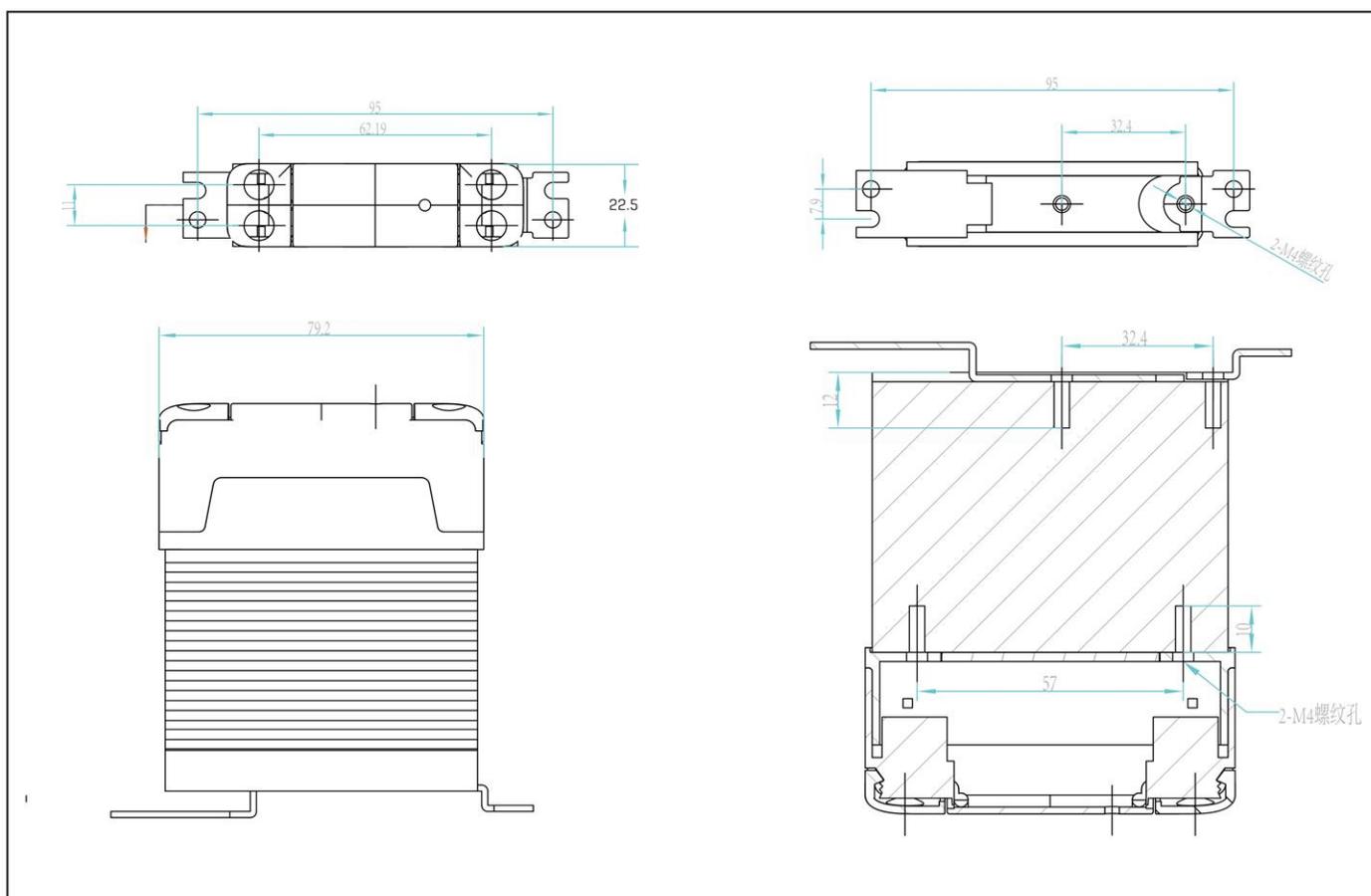
General Specifications [Ta=25°C]

Description	15A	25A	40A	60A
Dielectric Strength, Input to Output (50/60 Hz)	2500 Vrms			
Dielectric Strength, Input/Output to Base (50/60 Hz)	2500 Vrms			
Minimum Insulation Resistance [@ 500 VDC]	10 ⁹ Ω			
Maximum Capacitance, Input/Output	0.8 pF			
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			
Housing Material	PBT+30%GF			
Baseplate Material	Pure copper/Alumina			
Weight	280			

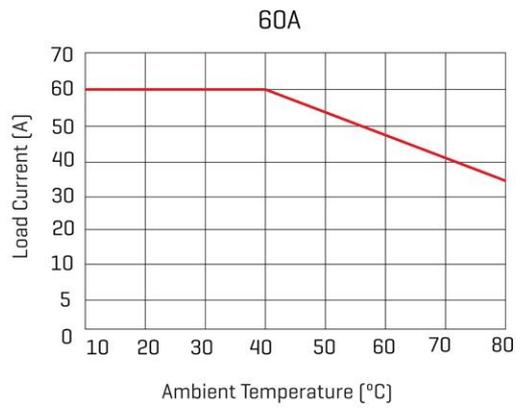
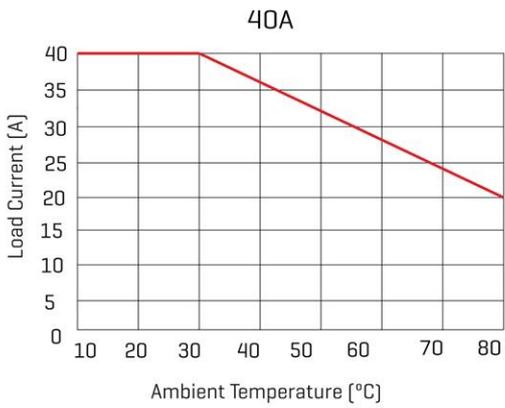
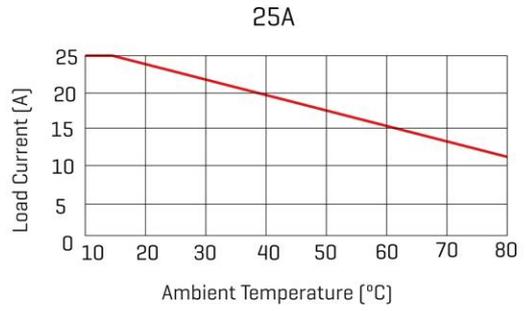
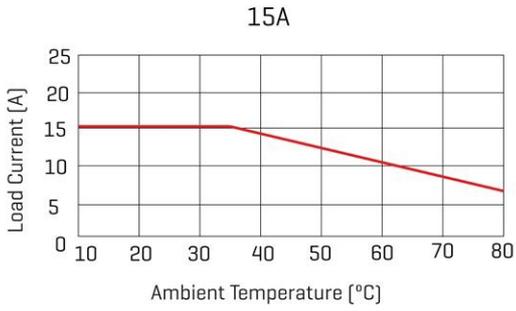
Wiring Diagram



Dimensions [mm]



Thermal Derating Curve



1. The product's side panels may be hot, allow the product to cool before touching.
2. Disconnect all power before installing or working with this equipment.
3. Verify all connections and replace all covers before turning on power.

