Din Rail Mount DC Solid State Relay

15A to 60A Din Rail Mount DC Solid State Relay

Greegoo's Integrated Heatsink Type DC to DC SSRs feature a 17.5mm ultra-thin, DIN rail-mounted design that supports currents from 15A to 60A and simplifies installation in high-cycle applications. These units provide enhanced thermal management with integrated heatsinks, aiming to improve reliability in industrial environments compared to traditional, non-integrated alternatives.

Benefits:

- Panel space savings.
- Less maintenance costs.
- Low machine downtime.
- Ease of use.
- Fast wiring.
- Protection against SSR overheat.

Features:

- Mosfet or IGBT output
- Low impedance
- Load current 15A,25A,40A,60A
- Load voltage 80VDC, 250VDC, 600VDC
- Control voltage 4-32VDC
- IP20 safety protection removable cover
- LED input indicator
- Integrated heat sink, width 22.5mm
- Mount on panel or 35mm standard rail DIN (EN50022)

Symbol	Meaning
G:	Greegoo
DD:	DD: DC to DC
40:	Rated Current: 40 - 40A; 15 - 15A; 25 - 25A; 60 - 60A
080:	Load Voltage: 080:12 - 80VDC; 250:12 - 250VDC;600:12 - 600VDC
D3:	Input Voltage: 4-32VDC

Model Selection:

Control Voltage	Output Voltage	Rated Operational Current			
		15Amps	25Amps	40Amps	60Amps
4-32VDC	80VDC	GDD15080D3	GDD25080D3	GDD40080D3	GDD60080D3
	250VDC	GDD15250D3	GDD25250D3	GDD40250D3	GDD60250D3
	600VDC	GDD15600D3	GDD25600D3	GDD40600D3	GDD60600D3

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Input Specifications

Parameter-list	Specification Limits
Control Voltage Range	4-32VDC
Must Turn-on Voltage	4VDC
Must Turn-off Voltage	⩽1V
Input Current (Min.)	9mA@5VDC
Input Current (Max.)	25mA@32VDC
Maximum Turn-On Time [msec]	2 (For special requirements 300μs)
Maximum Turn-Off Time [msec]	2 (For special requirements 300μs)

Output Specifications

Parameter-list	Units	Specification Limits			
Absolute Maximum Rating	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	45	75	120	180
Load Voltage Range(47-63Hz)	Vrms	12-80VDC,12-250VDC,12-600VDC			
Maximum On-State Resistance	mΩ	14	25	30	60
Off-State Leakage Current	mA	⩽1			
On-state Voltage drop	Vrms	1	1	1.2	1.5

General Specifications (Ta=25°C)

Parameter-list	Specification Limits
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)	$10^9\Omega$
Capacitor, input / output (Max.)	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	Copper, alumina
Weight	280g

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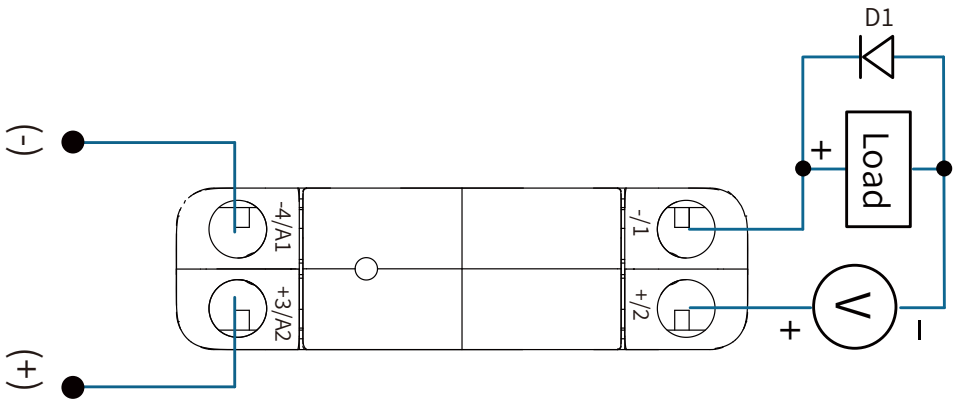
03

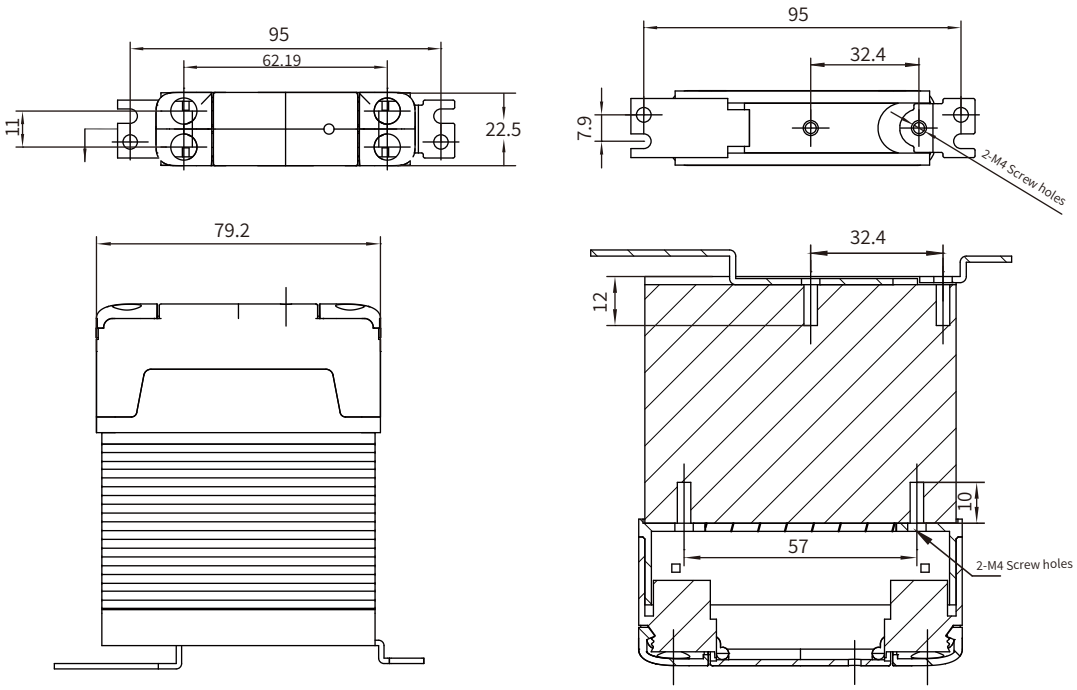
Wiring Diagram



When the relay is used for inductive load control,please be sure to use a suppression circuit, just likethe drawing above. Both load terminals are inverse parallelled with a fly-wheel diode D1.

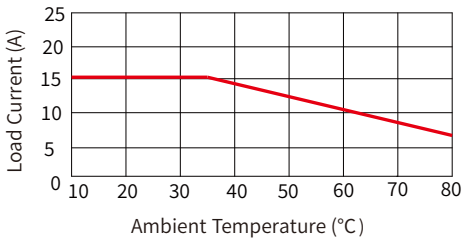
D1: Fast Recovery Diode

Dimensions (mm)

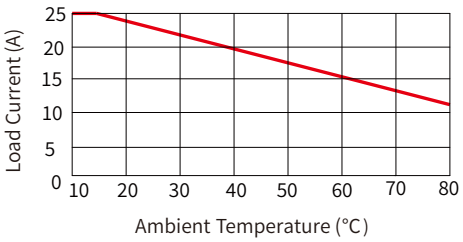


Thermal Derating Curve

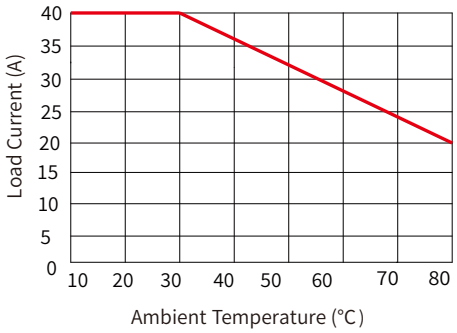
15A



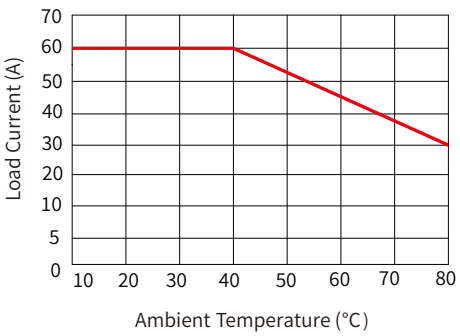
25A



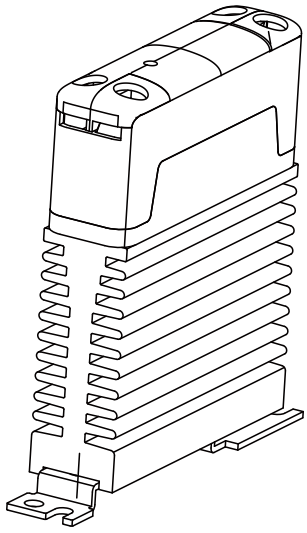
40A



60A



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.



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