

15A to 60A Din Rail Mount Solid State Contactor



This slimline solid state contactors present a unique opportunity for panel space savings thanks to their very slim footprint. The SSR is the ready-to-use range that is provided with an integrated heatsink with DIN rail clamps. The radiator is oxidized black and the surface is mirror-finished. The smallest footprint occupies only a width of 17.5 mm with ratings up to 60A. The power and control terminals allow for safe looping of cables. Spring loaded pluggable control terminals are an option when faster installation time is required.

Benefits:

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

Features

- Ratings: 15A, 25A, 40A and 60A
- Output voltage: 480Vac and 600Vac
- Control voltage: 4-32Vdc, 90-280Vac
- Integrated IP20 touch-safe removable covers
- Din rail mount
- Zero cross or instantaneous/random switching (resistive or inductive loads)

Applications

Plastic injection machines, Extrusion machines, Blow moulding machines, Dryers, Electrical ovens, Fryers, Shrink tunnels, Air handling units, Climatic chambers, Ovens and furnaces, Ambient heating.

Symbol Meaning

- G: Greegoo
 DA: DA:DC to AC, AA - AC to AC
 (Control Voltage: DC:4-32VDC; AC: 90-280VAC)
 48: Load Voltage: 48 - 480VAC; 60 - 600VAC
 40: Rated Current: 40 - 40A; 15 - 15A; 25 - 25A; 60 - 60A
 Z: Z-zero control, R-random control

Model Selection

Control Voltage	Load Voltage	Control Method	Rated operational current			
			15A	25A	40A	60A
4-32VDC	480VAC	Zero crossing	GDA4815Z	GDA4825Z	GDA4840Z	GDA4860Z
		Random switching	GDA4815R	GDA4825R	GDA4840R	GDA4860R
	600VAC	Zero crossing	GDA6015Z	GDA6025Z	GDA6040Z	GDA6060Z
		Random switching	GDA6015R	GDA6025R	GDA6040R	GDA6060R
90-280VAC	480VAC	Zero crossing	GAA4815Z	GAA4825Z	GAA4840Z	GAA4860Z
		Random switching	GAA4815R	GAA4825R	GAA4840R	GAA4860R
	600VAC	Zero crossing	GAA6015Z	GAA6025Z	GAA6040Z	GAA6060Z
		Random switching	GAA6015R	GAA6025R	GAA6040R	GAA6060R

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

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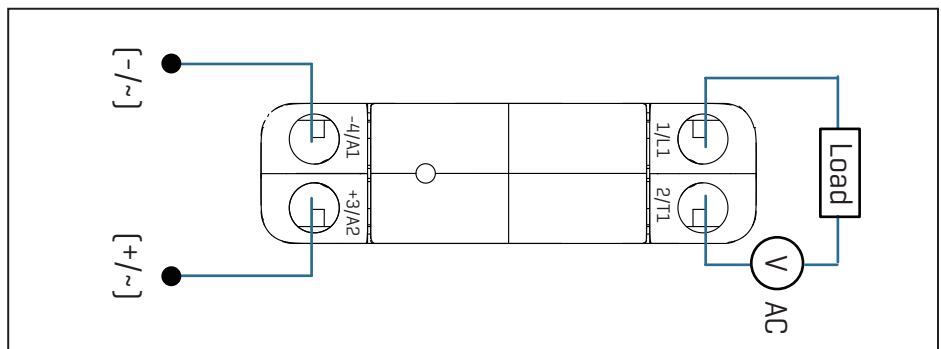
Output Specifications

Description	Units	Specification Limits			
		15	25	40	60
Model No.GDA/GAA	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	280g			

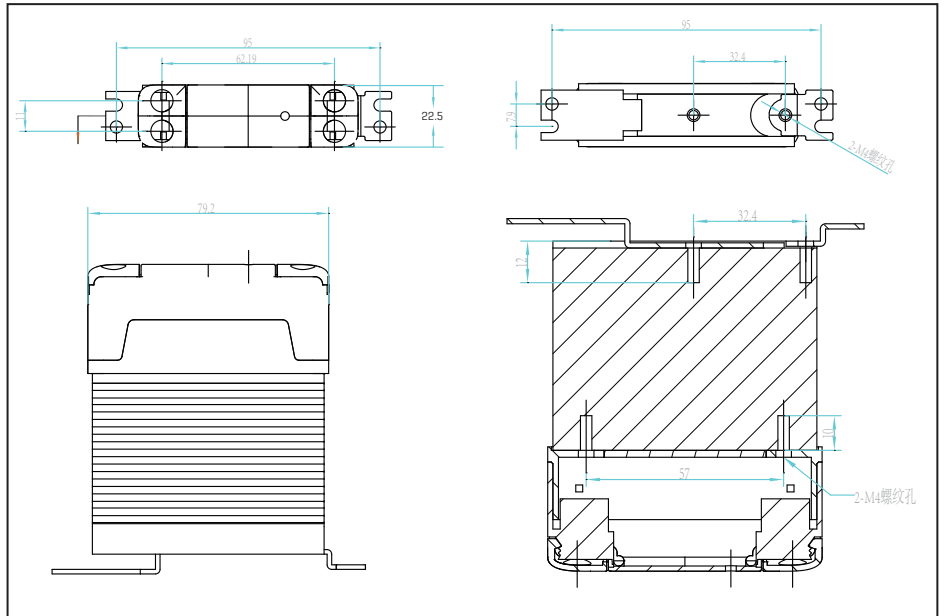
Wiring Diagram



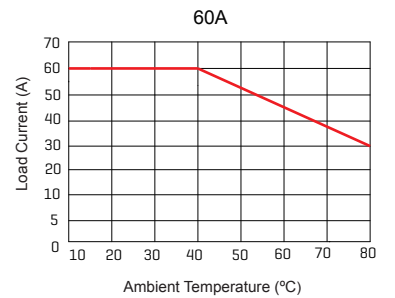
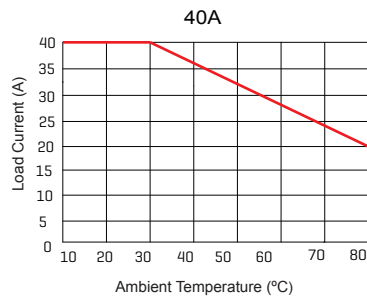
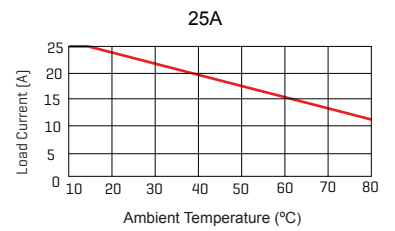
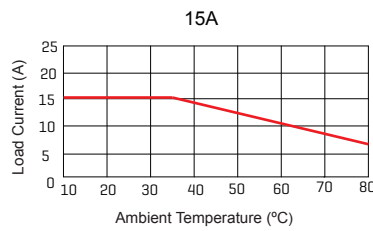
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Dimensions (mm)



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.

