



GA8 Series

- Ratings of 3.5 and 5 Amps @ 24-280 VAC
- UL Recognized/Horse Power Rated (E46203)
- 4kV Optical Isolation
- Zero Voltage Turn-on
- Industry Standard SIP Package
- Form A Output
- CE compliant

PRODUCT SELECTION

Control Voltage	4A	5A
3-28 VDC	GA8-6B02, 84065131	GA8-6D05, 84065030

INPUT SPECIFICATIONS ⁽¹⁾

Description	4A	5A
Minimum Turn-On Voltage [VDC]	3.0	3.0
Maximum Input Voltage [VDC]	28	28
Must Turn-Off Voltage [VDC]	1.0	1.0
Maximum Input Current [mA DC] ⁽²⁾	16	16
Nominal Input Resistance ⁽³⁾	Current Regulated	Current Regulated

OUTPUT SPECIFICATIONS

Description	4A ⁽¹⁰⁾	5A
Nominal Line Voltage [Vrms]	240	240
Minimum Line Voltage [Vrms]	24	24
Maximum Line Voltage [Vrms]	280	280
Maximum Peak Off-State Voltage [Vpeak] ⁽⁴⁾	600	600
Static (Off-State) dv-dt [V/μSec]	200	200
Maximum On-State Current [Arms] ⁽⁵⁾	4	5.0
Minimum On-State Current [Arms]	.05	.05
Minimum 1-Cycle Surge [Apeak] ⁽⁶⁾	100	100
On-State Voltage Drop [Vpeak] ⁽⁷⁾	1.6	1.6
Maximum Off-State Leakage [mA Arms] ⁽⁸⁾	.1	.1
HP Rating [HP] ⁽¹¹⁾	1/4	1/4

GENERAL SPECIFICATIONS ⁽¹⁾

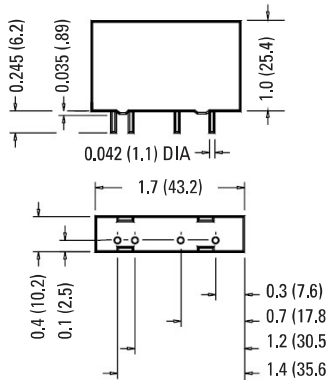
Description	Parameters
Ambient Operating Temperature Range ⁽³⁾	-30 to 80°C
Ambient Storage Temperature Range	-40 to 100 °C
Response Time ⁽¹²⁾	1/2 Cycle
Dielectric Strength, Input Output ⁽⁹⁾	4000 Vrms
Capacitance Input to Output (Typ)	8 pF
Line Frequency Range	47 to 63 Hz

GENERAL NOTES

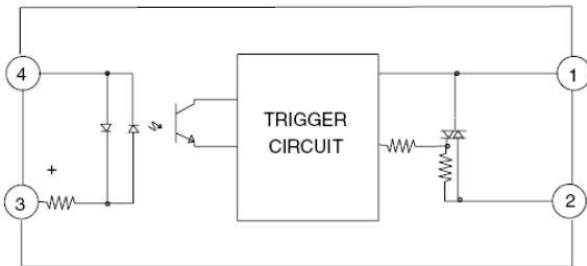
- ⁽¹⁾ Specifications apply to Ta of -30°C to 80°C unless otherwise noted.
- ⁽²⁾ At maximum input voltage.
- ⁽³⁾ Does not include IRED impedance (drop).
- ⁽⁴⁾ One minute maximum duration when applied as a DC Voltage.
- ⁽⁵⁾ Derate 50 mA/°C from 40°C to 80°C UL rating is 3.5 Arms.
- ⁽⁶⁾ At Ta of 25°C, non-repetitive.
- ⁽⁷⁾ At Ta of 25°C, and maximum on-state current.
- ⁽⁸⁾ At Ta of 25°C, and maximum line voltage.
- ⁽⁹⁾ At Ta of 25°C, for one second.
- ⁽¹⁰⁾ Instantaneous turn-on versions available. Specify by adding suffix "R" to appropriate part number. Contact factory for additional details.
- ⁽¹¹⁾ For GA8 only, 1/4 H.P. at 240 VAC, 1/8 HP at 120 VAC
- ⁽¹²⁾ At 60 Hz 100 μsec for Instantaneous Turn-on (suffix "R") models.

MECHANICAL SPECIFICATIONS

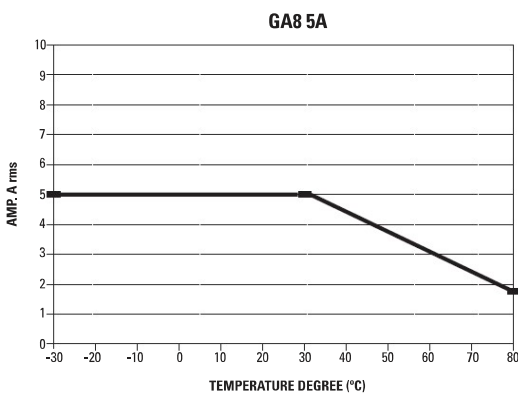
Tolerances: ±0.02 in / 0.5 mm
 All dimensions are in: inches [millimeters]



EQUIVALENT CIRCUIT DIAGRAM



THERMAL DERATE INFORMATION



AGENCY APPROVALS



Rev. 090516