

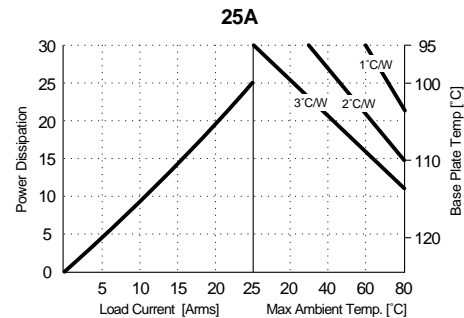
- DC or AC Control
- Zero Cross and Random Switching
- Up to 1200V Transient Capability
- SCR Output
- PCB Mount
- Low Profile

Manufactured in Crydom's ISO 9001 Certified facility for optimum product performance and reliability.

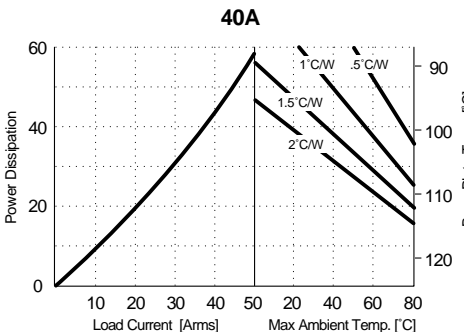
| MODEL NUMBERS | Zero Cross Turn-on | LR600240D25 | LR600240D40 | LR1200480D25 | LR1200480D40 |
|---------------|--------------------|--------------|--------------|---------------|---------------|
| | Random Turn-on | LR600240D25R | LR600240D40R | LR1200480D25R | LR1200480D40R |

CURRENT DERATING CURVES

OUTPUT SPECIFICATIONS ①



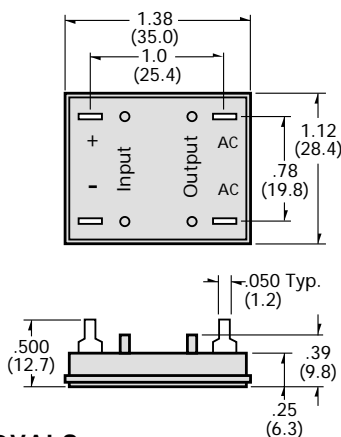
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|---|-----------|-----------|-----------|-----------|
| Operating Voltage Range (47-63 Hz) [Vrms] | 24-280 | 24-280 | 48-530 | 48-530 |
| Load Current Range [Arms] | 0.15-25 | 0.15-40 | 0.15-25 | 0.15-40 |
| Transient Over-Voltage [Vpk] | 600 | 600 | 1200 | 1200 |
| Max. Surge Current Non-Repetitive, (16.6ms) [Apk] | 250 | 400 | 250 | 400 |
| Max. I ² t For Fusing (8.3 msec.) [A ² sec] | 260 | 660 | 260 | 660 |
| Min. Off-State dv/dt @ Max. Rated Voltage [V/μsec] ③ | 500 | 500 | 500 | 500 |
| Max. Off-State Leakage @ Rated Voltage [mA] | 0.1 | 0.1 | 0.1 | 0.1 |
| Max. On-State Voltage Drop @ Rated Current [Vpk] | 1.6 | 1.6 | 1.6 | 1.6 |
| Max. Turn-On Time ④ | 1/2 cycle | 1/2 cycle | 1/2 cycle | 1/2 cycle |
| Max. Turn-Off Time | 1/2 cycle | 1/2 cycle | 1/2 cycle | 1/2 cycle |
| Power Factor (Min.) With Max. Load | 0.5 | 0.5 | 0.5 | 0.5 |



| INPUT SPECIFICATIONS ① | 120 Vac Control ⑥ | DC Control | 240V AC Control ⑥ |
|-----------------------------------|-------------------|-------------|-------------------|
| Control Voltage Range | 90-140 Vac | 4-32 Vdc | 180-260 Vac |
| Must Turn On Voltage | 90 Vac | 4 Vdc | 180 Vac |
| Must Turn Off Voltage | 10 Vac | 1 Vdc | 10 Vac |
| Typical Input Current at 5Vdc ⑤ ⑥ | 15mA@120 Vac | 9 mA@ 5 Vdc | 11mA@ 240Vac |

MECHANICAL DIMENSIONS

All dimensions are in inches (millimeters)



GENERAL SPECIFICATIONS

| | |
|--|---------------------|
| Dielectric Strength ② | 2500 Vrms |
| Insulation Resistance (Min.) @ 500 Vdc ② | 10 ⁹ Ohm |
| Max. Capacitance | 8.0 pF |
| Ambient Operating Temperature Range | -30 to 80°C |
| Ambient Storage Temperature Range | -30 to 125°C |

MECHANICAL SPECIFICATIONS

| | |
|-------------------|------------------|
| Weight: (typical) | 0.5 oz. (14.4 g) |
|-------------------|------------------|

GENERAL NOTES

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- ① All parameters at 25°C unless otherwise specified.
- ② Dielectric and insulation resistance are measured between input and output.
- ③ Off-State dv/dt test method per EIA/NARM standard RS-443.
- ④ Turn on time for random switching models is 0.1 ms (use suffix when ordering random turn on version)
- ⑤ DC Input circuitry incorporates active current limiter.
- ⑥ Use suffix -120 for 120Vac control and -240 for 240Vac control.

APPROVALS

UL (Pending)
CSA (Pending)
VDE (Pending)

