



Series 3

3 Amp • 120, 240 Vac • AC Output

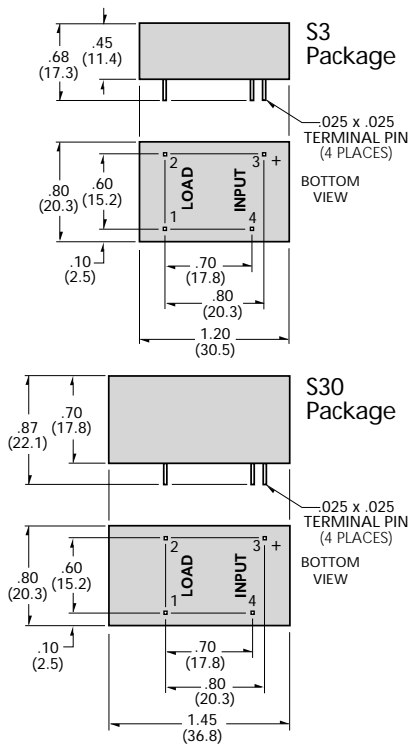
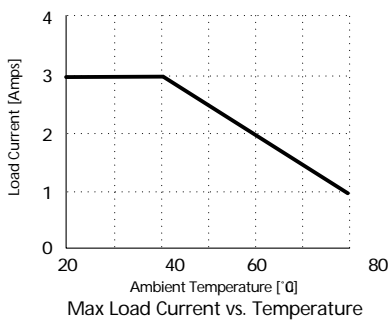
- Compact for High Density PCB Mount
- Small Footprint
- UL, CSA, VDE Approved

work (S3 types), Series 3 is an ideal replacement for power reed relays in microprocessor or computer-based logic level systems. Designed for long, reliable service in a multitude of demanding industrial environments.

These solid state relays combine small size and high ratings in a PC-board-mounted SPST-NO design. Available with (S30 types) or without snubber net-

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

CURRENT DERATING CURVE



All dimensions are in inches (millimeters)

APPROVALS

UL E116949
CSA LR81689
VDE 10114 UG



| MODEL NO. | S312 | S3012A | S322 | S3022A |
|-------------------------------|-----------|--------|-----------|--------|
| INPUT SPECIFICATIONS ① | | | | |
| Control Voltage Range | 3.5-8 Vdc | | 3.5-8 Vdc | |
| Nominal Input Impedance | 200 Ohm | | 200 Ohm | |
| Typical Input Current @ 5 Vdc | 20 mAdc | | 20 mAdc | |
| Must Turn On Voltage | 3.5 Vdc | | 3.5 Vdc | |
| Must Turn Off Voltage | 1.0 Vdc | | 1.0 Vdc | |

| | | | | |
|---|-------------|---------|-------------|---------|
| OUTPUT SPECIFICATIONS ① | | | | |
| Operating Voltage Range (47-63 Hz) | 20-140 Vrms | | 40-280 Vrms | |
| Load Current Range (Arms) | .15-3.0 | .15-3.0 | .15-3.0 | .15-3.0 |
| Transient Over-Voltage | 600 Vpk | | 600 Vpk | |
| Max. Surge Current, (16.6ms) | 55 Apk | | 55 Apk | |
| Min. Off-State dv/dt @ Max. Rated Voltage ③ | 200 V/μsec | | 200 V/μsec | |
| Max. Off-State Leakage @ Rated Voltage | 1.0 mA | 4.0 mA | 1.0 mA | 4.0 mA |
| Max. On-State Voltage Drop @ Rated Current | 1.5 Vpk | | 1.5 Vpk | |
| Max. Turn-On Time | 1/2 cycle | | 1/2 cycle | |
| Max. Turn-Off Time | 1/2 cycle | | 1/2 cycle | |
| Power Factor (Min.) With Max. Load | 0.5 | | 0.5 | |

| | | | | |
|--|---------------------|--|--|--|
| GENERAL SPECIFICATIONS | | | | |
| Dielectric Strength ② | 4000 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) | 0.6 oz. (0.8 g) | | | |
| Encapsulation: | Thermally Conductive Epoxy | | | |

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GENERAL NOTES

- 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.

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