



Series 3

3 Amp • 120, 240 Vac • AC Output

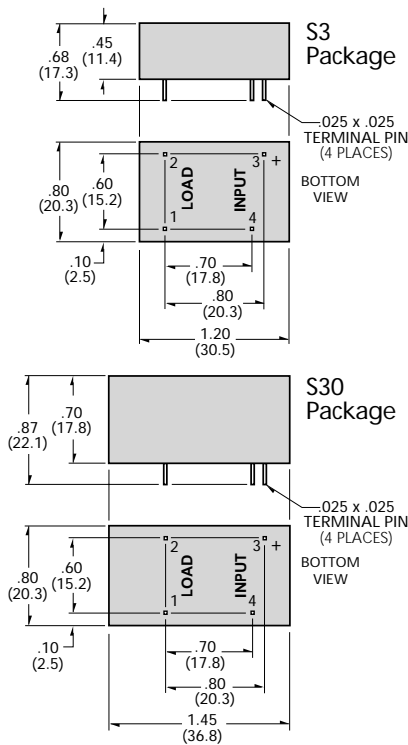
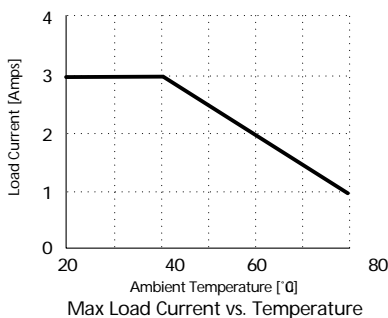
- Compact for High Density PCB Mount
- Small Footprint
- UL, CSA, VDE Approved

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			

GENERAL NOTES

©2002 CRYDOM CORP, Specifications subject to change without notice.

- 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.

For recommended applications and more information contact:

USA: Sales Support (877) 502-5500 Tech Support (877) 702-7700 FAX (619) 710-8540
Crydom Corp, 2320 Paseo de las Americas, Ste. 201, San Diego, CA 92154

Email: sales@crydom.com WEB SITE: <http://www.crydom.com>

UK: +44 (0)1202 365070 • FAX +44 (0)1202 365090 Crydom International Ltd., 7 Cobham

Road, Ferndown Industrial Estate, Ferndown, Dorset BH21 7PE, Email: intsales@crydom.com.

GERMANY: +49 (0)180 3000 506

