

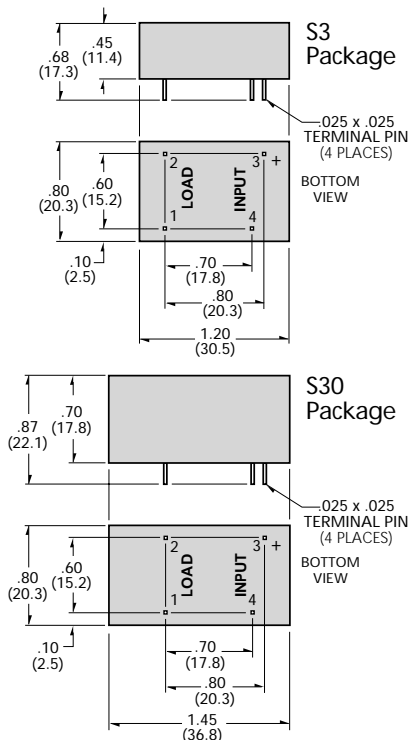
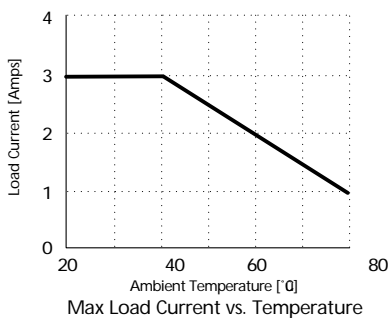
- Compact for High Density PCB Mount
- Small Footprint
- UL, CSA, VDE Approved

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 mA _{dc}		20 mA _{dc}	
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 Vr _{rms}		40-280 Vr _{rms}	
Load Current Range (Arms)	.15-3.0	.15-3.0	.15-3.0	.15-3.0
Transient Over-Voltage	600 V _{pk}		600 V _{pk}	
Max. Surge Current, (16.6ms)	55 A _{pk}		55 A _{pk}	
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 V _{pk}		1.5 V _{pk}	
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 Vr _{rms}			
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.

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

