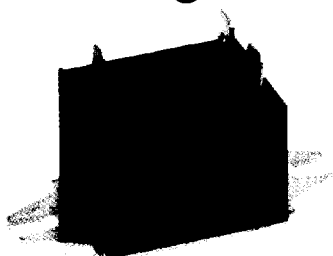


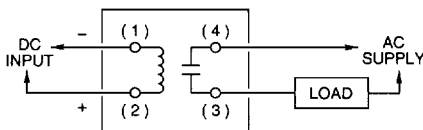
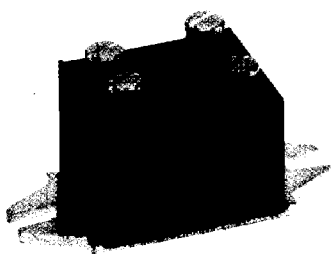
FEATURES

- Mini Puck® Solid State Relay
- Optically Isolated
- Panel Mount; Up to 25 Amp Loads
- Mounts on Hockey Puck Relay Centers, Yet Needs 1/2 the Space
- Screw Terminals or Push-On Tabs
- UL Recognized and CSA Certified
- Lifetime Warranty

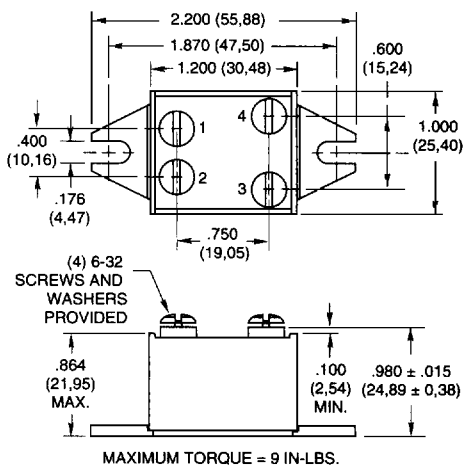
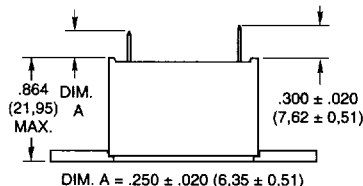
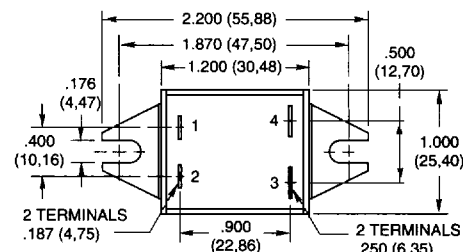
STYLE N



STYLE S



DIMENSIONS ARE SHOWN IN INCHES AND (MM). ALL TOLERANCES ± 0.010 (0,25) UNLESS OTHERWISE SPECIFIED



NOTE: STYLE S IS NOT INTENDED FOR PC BOARD MOUNTING. SCREWING TERMINAL TO A PC BOARD MAY DAMAGE RELAY. CONSULT GRAYHILL.

In Figure 1 the chart indicates continuous current to limit the junction temperatures to 100°C. Information is based on the use of a 12" x 12" x 1/8" aluminum heatsink (with silicon grease) in a 2 cubic foot sealed enclosure.

In Figure 2 the information is based on a supply frequency of 60 Hertz sinusoidal and a resistive or inductive load. Application of maximum surge current may not be repeated until the relay temperature has returned to its steady state value.

Figure 1: Maximum Continuous Current vs. Ambient Temperature

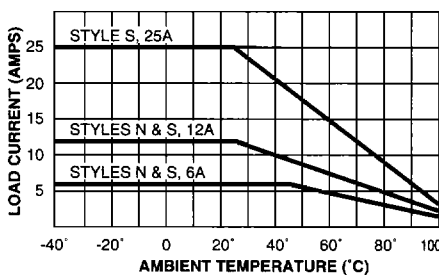
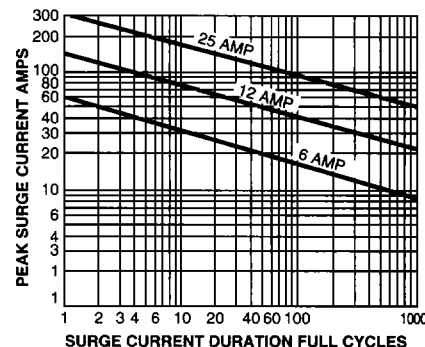


Figure 2: Maximum Peak Surge Current vs. Surge Duration



SPECIFICATIONS

Output Circuit			Static dV/dT: 3000 V/microsecond typical, measured under open circuit conditions. Not to exceed peak blocking voltage.			Capacitance (Input to Output): 6 pF typical		
Nominal Line Voltage (Vac):	120	240	Frequency Range: 25 to 70 Hz			Vibration: 20 g's peak or .06" double amplitude 10-2000 Hz per MIL-STD-202, Method 204, Condition D		
Load Voltage Range (Vac):	24-140	24-280	On State Voltage Drop: 1.6 V peak maximum			Mechanical Shock: 1500 g's 0.5 mS half-sine per MIL-STD-202, Method 213, Condition F		
Minimum Peak Blocking Voltage (Volts):	400	600	Turn-On Time (60 Hz): 8.3 mS maximum			Operating Temperature Range: -40° to +100°C		
Maximum Zero Voltage Offset (Volts)			Turn-Off Time (60 Hz): 8.3 mS maximum			Storage Temperature Range: -40°C to +125°C		
6A & 12A Styles:	8	18	Input Circuit			Materials and Finishes		
25A Styles:	8	8	Control Voltage Range (Vdc): 3-30 6-30			PC Terminals: Copper wire, Lead-Tin plated		
Max. Off State Leakage Current 60 Hz (mA rms):	6	6	Control Current Range (mA)* 7.0-16.0 6.0-10.0			Case: Solvent resistant thermoplastic, Polyester, meets UL94V-0		
Max Load Current (Amps rms):	6	12	Ave. Input Impedance (Ohms)* See below			Potting: High thermal conductive epoxy		
Load Current Range (Amps rms):	.075-6	.1-12	Min. Drop Out Voltage (Vdc): 1.0 1.0			Heat Sink: Aluminum, except 25A unit which is copper, tin plated.		
See Figure 1.			Max. Reverse Control Voltage (Vdc): 5 5			UL Recognition and CSA Certification		
Max. 1 Cycle Surge Current (Amps Peak):	60	150	General Characteristics			UL file number E58632 and CSA file number LR38763 apply to all relays shown here.		
See Figure 2.			Insulation Resistance (Input to Output; Input or Output to Case): 10 ⁹ ohms minimum			All specifications apply over the operation temperature range.		
Typical Power Dissipation (Watts/Amp):	1.1	1.2	Dielectric Strength (Input to Output): 3000 Vrms minimum					
Thermal Resistance (J to C in °C/Watt):	4.2	2.4	(Input or Output to Case): 3000 Vrms min.					
Minimum I²t For Fusing (Amp²Sec at 8.3 mS):	26.5	90						

ORDERING INFORMATION

Nom. Load Vac	Max. Load Amps	Control Voltage Vdc	Grayhill Part Number
STYLE N			
120	6A	3-30	70S2-04-B-06-N
120	6A	6-30	70S2-05-B-06-N
120	12A	3-30	70S2-04-B-12-N
120	12A	6-30	70S2-05-B-12-N
240	6A	3-30	70S2-04-C-06-N
240	6A	6-30	70S2-05-C-06-N
240	12A	3-30	70S2-04-C-12-N
240	12A	6-30	70S2-05-C-12-N

Nom. Load Vac	Max. Load Amps	Control Voltage Vdc	Grayhill Part Number
STYLE S			
120	6A	3-30	70S2-04-B-06-S
120	6A	6-30	70S2-05-B-06-S
120	12A	3-30	70S2-04-B-12-S
120	12A	6-30	70S2-05-B-12-S
120	25A	3-30	70S2-03-B-25-S
240	6A	3-30	70S2-04-C-06-S
240	6A	6-30	70S2-05-C-06-S
240	12A	3-30	70S2-04-C-12-S
240	12A	6-30	70S2-05-C-12-S
240	25A	3-30	70S2-03-C-25-S

Available from your local Grayhill Electronic and Industrial Distributors. For prices and discounts, contact a local Sales Office, an authorized local Distributor, or Grayhill.

These styles are also available in DC to DC solid state relays, see page I-11.