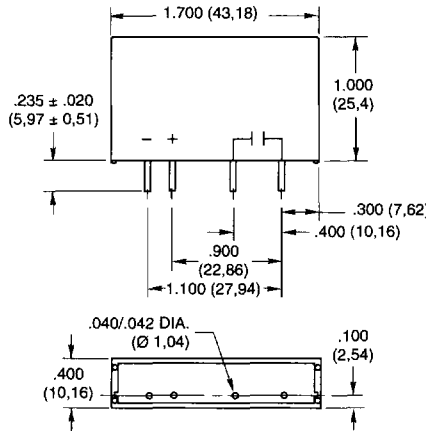
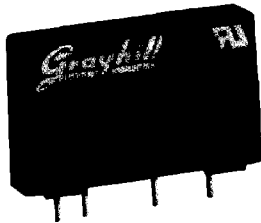


STYLE V



DIMENSIONS SHOWN IN INCHES AND (MM). ALL TOLERANCES ±.010 (0,25) UNLESS OTHERWISE SPECIFIED.

In Figure 1 the chart indicates continuous current to limit the junction temperatures to 100°C. Information is based on steady state heat transfer 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

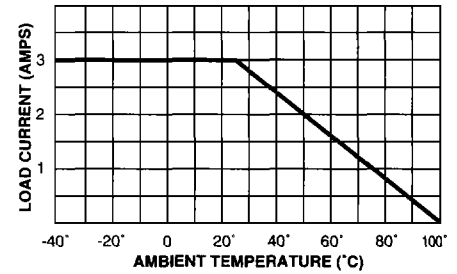
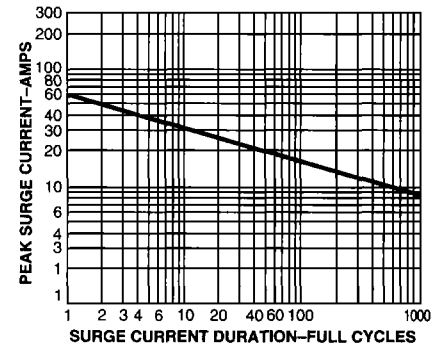


Figure 2: Maximum Peak Surge Current vs. Surge Duration



FEATURES

- Single In-Line Package Relay
- Optically Isolated
- PC Mount; Switches Up to 3 Amps
- Minimal Board Space Required
- UL Recognized and CSA Certified
- TUV Rheinland Certified to EN60947-5-1 Safety Requirements
- Lifetime Warranty

SPECIFICATIONS

Output Circuit			On State Voltage Drop: 1.5V peak maximum		General Characteristics	
Nominal Line Voltage (Vac):	24	120	240	Thermal Resistance (Junction to Ambient): 25°C/Watt	Insulation Resistance (Input to Output; Input or Output to Case): 10 ⁹ ohms minimum	
Load Voltage Range (Vac):	10-50	24-140	24-280	Typical Power Dissipation: 1 Watt/Amp	Dielectric Strength (Input to Output): 3000 Vrms minimum	
Minimum Peak Blocking Voltage (Volts):	200	400	600	Turn-On Time (60 Hz): 8.3 mS maximum	Capacitance (Input to Output): 6 pF typical	
Maximum Zero Voltage Offset (Volts):	16	18	28	Turn-Off Time (60 Hz): 8.3 mS maximum	Vibration: 20 g's peak or .06" double amplitude 10-2000 Hz per MIL-STD-202, Method 204, Condition D	
Max. Off State Leakage Current 60 Hz (mA rms):	4	6	6	Pt For Fusing (t=8.3 mS): 26.5 Amp ² Sec minimum	Mechanical Shock: 1500 g's 0.5 mS half-sine per MIL-STD-202, Method 213, Condition F	
Load Current Range: 65 mA to 3 Amps rms. See Figure 1 for derating.				Maximum Recommended Fusing: F4A, 250V	Operating Temperature Range: -40° to +100°C	
One Cycle Surge Current: 60 Amps peak maximum. See Figure 2 for derating.				Input Circuit	Storage Temperature Range: -40°C to +125°C	
Static dV/dt: 3000 V/microsecond typical, measured under open circuit conditions. Not to exceed peak blocking voltage.				Control Voltage Range (Vdc):	3-32	6-32
Load Power Factor Range: 0.5 to 1.0				Control Current Range (mA):	1.0-19.0	1.0-6.0
Frequency Range: 25 to 70 Hz				Ave. Input Impedance (Ohms):	2000	6000
				Min. Drop Out Voltage (Vdc):	1.0	1.0
				Max. Reverse Control Voltage (Vdc):	5	5

All specifications apply over the operation temperature range.

General Characteristics

Insulation Resistance (Input to Output; Input or Output to Case): 10⁹ ohms minimum
Dielectric Strength (Input to Output): 3000 Vrms minimum
Capacitance (Input to Output): 6 pF typical
Vibration: 20 g's peak or .06" double amplitude 10-2000 Hz per MIL-STD-202, Method 204, Condition D
Mechanical Shock: 1500 g's 0.5 mS half-sine per MIL-STD-202, Method 213, Condition F
Operating Temperature Range: -40° to +100°C
Storage Temperature Range: -40°C to +125°C

Materials and Finishes

Terminals: Copper wire, Tin plated
Case: Solvent resistant thermoplastic, Polyester, meets UL94V-0
Potting: High thermal conductive epoxy

ORDERING INFORMATION

Nom. Load Vac	Max. Load, Amps	Control Voltage Vdc	Grayhill Part Number
24	3A	3-32	70S2-04-D-03-V
24	3A	6-32	70S2-05-D-03-V
120	3A	3-32	70S2-04-B-03-V
120	3A	6-32	70S2-05-B-03-V
240	3A	3-32	70S2-04-C-03-V
240	3A	6-32	70S2-05-C-03-V

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

TUV file number E9671910.01, UL file number E58632 and CSA file number LR38763 apply to all relays shown here.

This style is also available in DC to DC relays, see page I-11.