



Application Notes:

101
102
103D
007

- Polarized, nonlatching hermetically sealed relay

• Contact arrangement 4 PDT

• Coil Supply Direct or Alternating current

• Qualified to and in accordance with MIL-PRF-6106

PRINCIPLE TECHNICAL CHARACTERISTICS

• Contacts rated at 28 Vdc; 115 Vac, 400 Hz, 1 Ø
and
115/200 Vac, 400 Hz, 3 Ø

• Weight 0.80 lbs. max

• Dimensions 1.80 x 2.06 x 2.06 in. max

• Balanced-force design, all welded construction

• Hermetically sealed, corrosion protected metal can

• No make before break

• Special models available upon request

CONTACT ELECTRICAL CHARACTERISTICS

Contact rating per pole and load type [1]	Load current in Amps						
	28 VDC		115 Vac 400 Hz		115/200 Vac 400 Hz, 3, Ø		115/200 Vac 3 Ø 115 Vac 60 Hz
Resistive	10A	15A [2]	15A	-	15A	-	10A
Inductive [5]	10A	-	10A	-	10A	-	6A
Motor	6A	8A [2]	6A	8A [2]	6A	8A [2]	4A
Lamp	3A	4A [2]	3A	4A [2]	3A	4A [2]	2A

COIL CHARACTERISTICS (Vdc)

COIL DATA	28 Vdc	115 Vac 400 Hz [3]	115 Vac 60 Hz	Suppressed Vdc [4]
Nominal operating voltage	28	115	115	28
Maximum operating voltage	30	124	124	30
Pick-up voltage, maximum at +125° C	18	90	95	18
Drop-out voltage, max	7	30	35	7
Coil resistance $\Omega \pm 10\%$ at +25° C	92	-	-	92
Coil current max. mA at +25° C	-	100	100	-

GENERAL CHARACTERISTICS

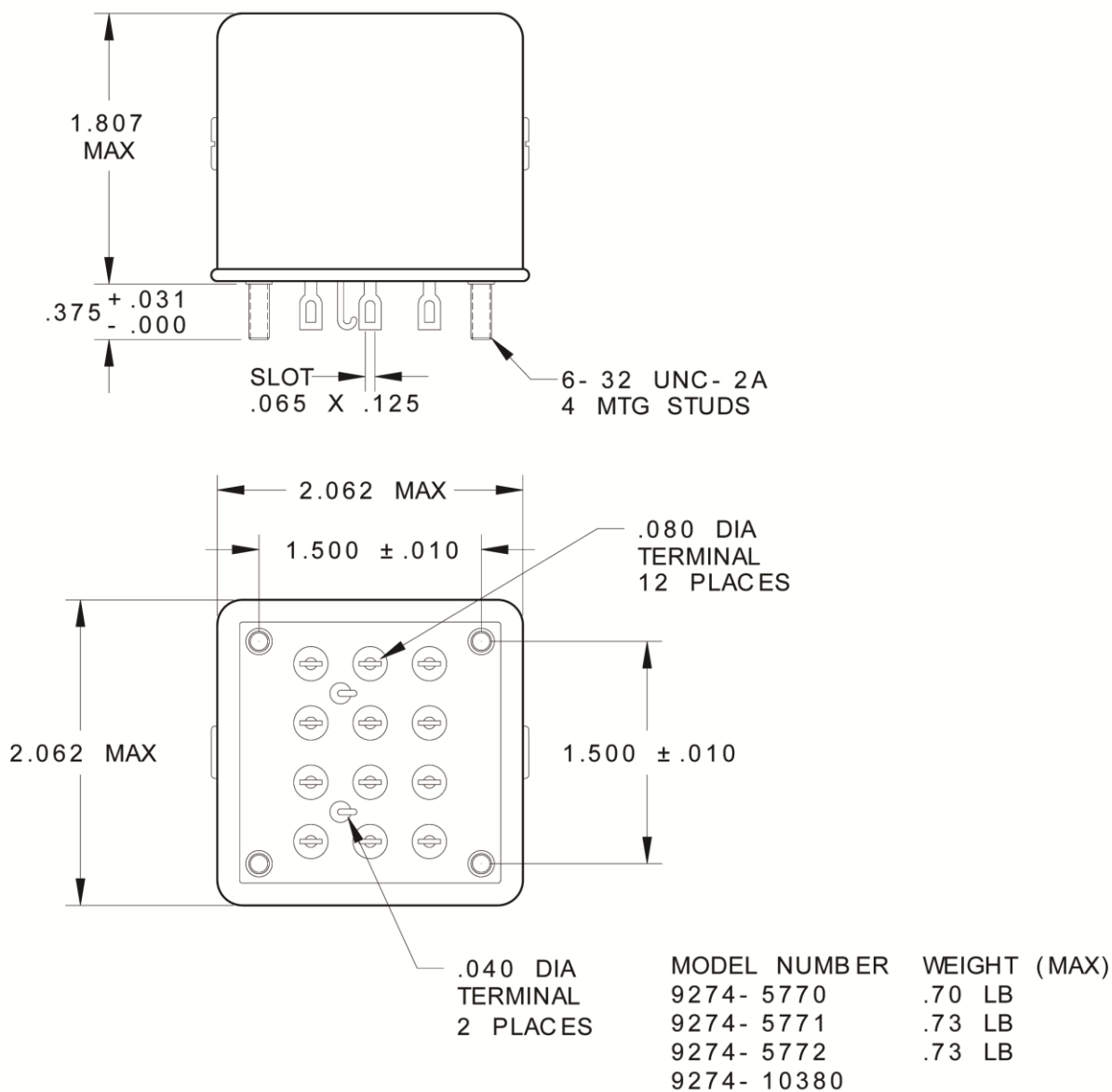
Temperature range	-70°C to +125°C
Minimum operating cycles (life) at rated load	100,000
Minimum operating cycles (life) at 25% rated load	400,000
Dielectric strength at sea level	
All circuits to ground and circuit to circuit	2000 Vrms / 50 Hz
Coil to ground	1000 Vrms / 50 Hz
Dielectric strength at altitude 80,000 ft	700 Vrms / 50Hz (350 Vrms gasket compressed)
Insulation resistance (at 500 Vdc)	100 M Ω min
Sinusoidal vibration	(36-500 Hz) 20 G (500-1,000 Hz) 15 G (1,000-2,000 Hz) 10 G
Mechanical shock	50 G / 11 ms
Maximum contact opening time under shock or vibration	10 μ sec
Operate time at nominal voltage	25 ms max
Release time at nominal voltage	
DC	20 ms max
AC	50 ms max
Contact make bounce at nominal voltage	
N.C. Contacts	5 ms max
N.O. Contacts	3 ms max

Unless otherwise noted, the specified temperature range applies to all relay characteristics.

MOUNTING STYLES

Dimensions in inches
Tolerances, unless otherwise specified
XXX ± .010
XX ± .03

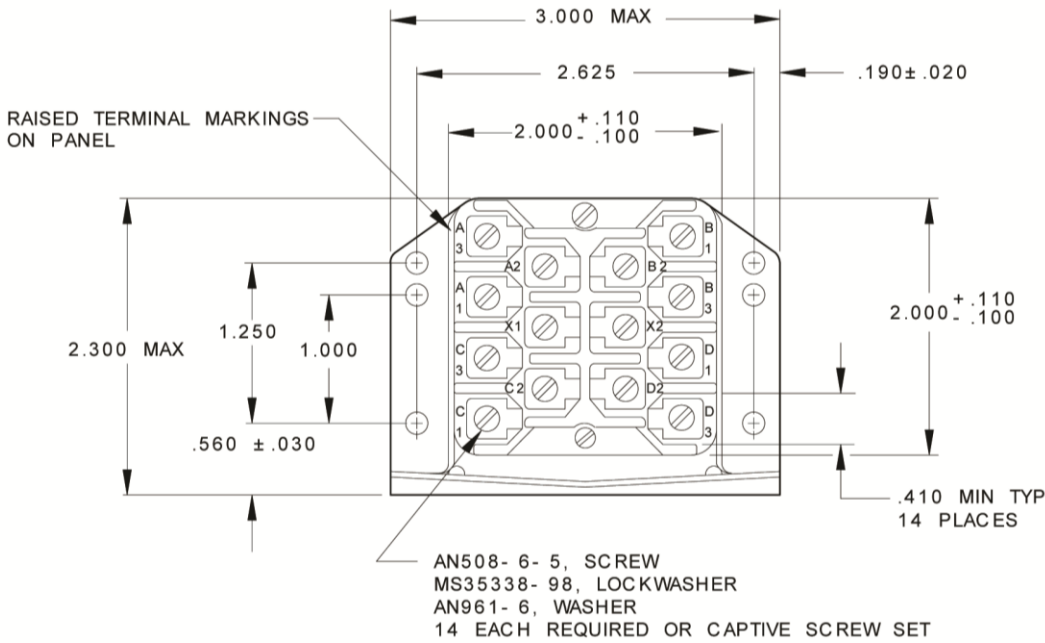
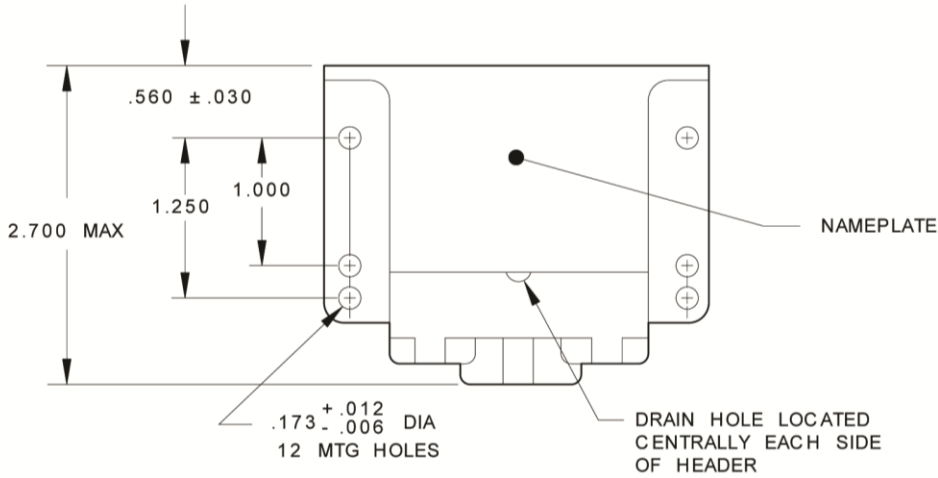
MOUNTING STYLE 1



MOUNTING STYLES

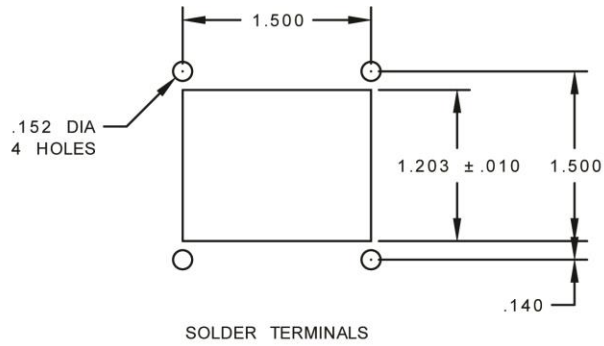
MOUNTING STYLE 2

Dimensions in inches
Tolerances, unless otherwise specified
XXX ± .010
XX ± .03

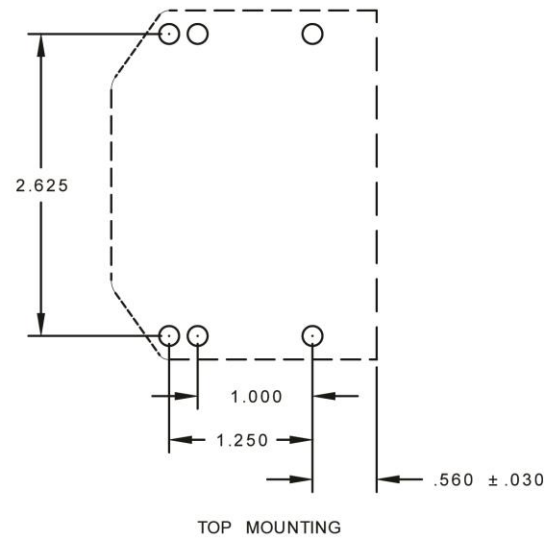
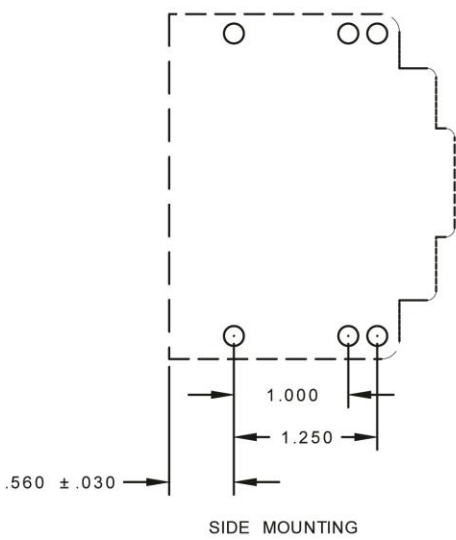


MODEL NUMBER	WEIGHT (MAX)
9274- 6205	.73 LB
9274- 6667	.73 LB
9274- 5569	.80 LB
9274- 10381	.73 LB
9274- 10291	.80 LB

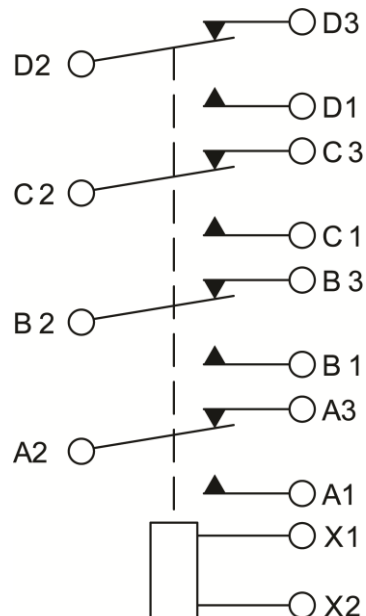
MOUNTING DIMENSIONS



STD TOL: ± .005



SCHEMATIC DIAGRAM



NUMBERING SYSTEM

TERMINAL	MOUNTING	28 VDC	SUPPRESSED 28 VDC [4]	115 VAC, 400 HZ [3]	115 VAC, 60 HZ
Solder terminal Flat & pierced	Stud	9274-5770	9274-10380	9274-5771	9274-5772
Screw	Bracket	9274-6205 MS24568-D1	9274-10381	9274-6667 MS24568-A1	9274-5569 9274-10291 MS24568-A2

*Specials available upon request, please contact factory.

NOTES

1. Standard intermediate current test applicable.
2. Values beyond applicable military specification requirements.
3. May be used on 115 Vac, 60 Hz if maximum ambient temperature is limited to +85°C.
4. Coils have back EMF suppression to 42 Volts.
5. Inductive load life is 20 percent of rated resistive load life.
6. Applicable military specification: MIL-PRF-6106.

For any inquiries, please contact your local sales representative: leachcorp.com