

Application Notes: 101 102 103E 007

 Balanced armature, nonlatching hermetically sealed relay 			
Contact arrangement	3 PST configuration with 1PDT, 2 Amp auxiliary contacts		
Coil Supply	Direct or alternating current		
Qualified or in accordance with	MIL-PRF-6106		

PRINCIPLE TECHNICAL CHARACTERISTICS

Contacts rated at	28 Vdc; 115 Vac, 60 Hz and 400 Hz, 1 Ø; 115/200 Vac, 400 Hz, 3Ø and 60 Hz	
• Weight	0.44 lbs. max	
Dimensions	1.53 x 1.53 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

	Load current in Amps					
Contact rating per pole and load type [1]	28 VDC	115 Vac 400Нz	115/200 Vac 400 Hz, 3Ø	120/208 Vac 50/60 Hz 1 & 3 Ø		
Resistive [1]	25	25	25	25		
Inductive [2]	15	25	25	25		
Motor	20	20	20	12		
Lamp	10	10	10	10		
Overload	80	120	120	-		
Rupture	100	150	150	-		
Contact rating, Auxiliary contacts At 28 Vdc or 115 Vac 400 Hz		Resistive 2 Amp	Inductive 1 Amp	Lamp 0.5 Amp		

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9339 RELAY – NONLATCH 25 AMP, 3PST/NO + AUX

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

COIL CHARACTERISTICS (Vdc)

COIL DATA	Vdc	115 Vac 400 Hz [3]	115 Vac	Suppressed Vdc [7]
Nominal operating voltage	28	115	115	28
Maximum operating voltage	29	122	122	29
Maximum Pick-up voltage @ +125° C	18	95	95	18
Drop-out voltage, max	7	40	40	7.0
Coil resistance $\Omega \pm 10\%$ at +25° C	160	-	-	160
Coil current max. mA at +25° C	-	55	60	-

GENERAL CHARACTERISTICS

Temperature range	-70°C to +125°C	
Minimum operating cycles (life) at rated load	50,000	
Minimum operating cycles (life) at 25% rated load	200,000	
Dielectric strength at sea level all points		
All circuits to ground and circuit to circuit	1,500 Vrms / 50 Hz	
Coil to ground	1,250 Vrms	
Auxiliary contact gap	1,000 Vrms	
Dielectric strength at altitude 80,000 ft	500 Vrms [5] 250 Vrms Aux. contacts	
Insulation resistance		
Initial (500 Vdc)	100 M Ω min	
After environmental tests (500 Vdc)	50 M Ω min	
	0.08 DA (5 to 10 Hz)	
Sinusoidal vibration [6]	0.06 DA (10 to 55 Hz) 10 G (55 to 1500 Hz)	
Acceleration	10 G	
Shock: No contact opening in excess of 2 ms	50 G for 11 ms	
Maximum contact opening time under vibration	10 µs	
Operate time at nominal voltage & 25°C		
DC	20 ms max	
AC	25 ms max	
Release time at nominal voltage & 25°C		
DC [9]	10 ms max	
AC	50 ms max	
Contact bounce at nominal voltage		
Power contacts	2 ms msx	
Auxiliary contacts	4 ms max	

MOUNTING STYLE



SCHEMATIC DIAGRAM



NOTES

- 1. Standard Intermediate current test applicable.
- 2. DC inductive load 10,000 cycles min., AC inductive load 20,000 cycles.
- 3. May be used on 115 Vac, 60 Hz if max. ambient temperature is limited to +85° C.
- 4. Military approvals M6106/41.
- 5. May be at sea level values if suitably insulated after installation and wiring.
- 6. Special units available Consult factory.
- 7. Suppressed coils have back EMF suppression to 42 Volts.
- 8. Applicable military specification: MIL-PRF-6106.
- 9. Release time is 0.015 sec max. @ 25° C with nominal 28 Vdc coil voltage and coil suppression.

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