



APPLICATION NOTES:

101 102

102 007 **Balanced-Force Design**

Hermetically sealed

Designed to the performance standards of

MIL-PRF-6106

PRINCIPLE TECHNICAL CHARACTERISTICS

Contacts rated at	28 Vdc and 115 Vac, 400 Hz, 1 Ø and 115/200 Vac, 400Hz, 3 Ø			
Weight	4.50 lb max			
Special units available upon reques	st, including models with auxiliary contacts.			

CONTACT ELECTRICAL CHARACTERISTICS

Contact rating per pole	Load current in Amps					
and load type	28 Vdc	115 Vac 400 Hz	115/200 Vac 400 Hz 3Ø			
Resistive	100	250	250			
Inductive [1]	75	250	250			
Motor	75	125	125			



COIL CHARACTERISTICS (Vdc)

CODE	A Vdc	F Vac 400Hz	N Suppressed [5] Vdc		
Nominal operating voltage	28	115	28		
Maximum operating voltage	29	124	29		
Pick-up voltage, maximum					
- Nominal	18	90	18		
- High temp test	20	95	20		
- Continuous current test	22.5	100	22.5		
Drop-out voltage, maximum	7	30	7 100		
Coil resistance in Ohms ± 20% at +25° C [4]	100	-			
Coil current max. @ nom. Volt.and +25° C	-	.10 Amp	-		

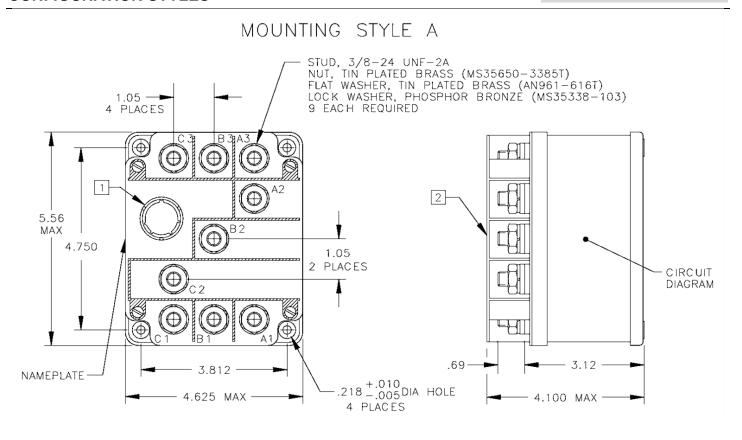
GENERAL CHARACTERISTICS

Temperature range	-55°C to 85°C			
Minimum operating cycles (life) at rated load	50,000			
Minimum operating cycles (life) at 25% rated resistive load	100,000			
Dielectric strength at sea level				
All circuits to ground and circuit to circuit	1,500 Vrms			
Coil to ground and aux. contacts	1,250 Vrms			
Dielectric strength at altitude:				
Main contacts	700 Vrms			
Coil and aux. contacts	500 Vrms			
Insulation resistance				
Initial (500 Vdc)	100 M Ω min			
After environmental tests (500 Vdc)	50 M Ω min			
Sinusoidal vibration	10G / 60 to 2,000 Hz			
Shock (6 ms duration)	20G			
Maximum contact opening time under vibration and shock	10 μs			
Operate time at nominal voltage (Including bounce)	60 ms max			
Release time at nominal voltage (Including bounce)				
DC	40 ms max [3]			
AC	80 ms max			
Contact bounce at nominal voltage	4 ms max			
Weight	4.50 lb max			
Overload	1,250 Amperes			
Rupture	1,750 Amperes			
Altitude	80,000 ft.			



Dimensions in inches Tolerances, unless otherwise specified $XX \pm 0.03$ in $XXX \pm .010$ in

CONFIGURATION STYLES



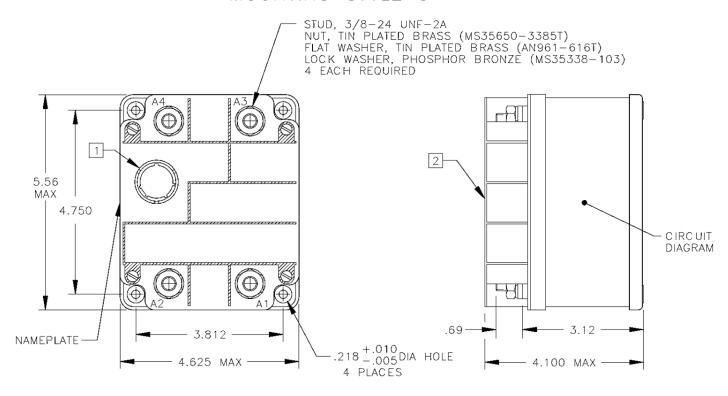
- [1] CIRCULAR CONNECTOR MS-STYLE OR EQUIVALENT
- [2] TERMINAL BARRIER (SHOWN WITHOUT COVER IN TOP VIEW, FOR CLARITY).
- [3] COIL TERMINALS MAY BE IDENTIFIED AS A-B OR X-Y.



Dimensions in inches
Tolerances, unless otherwise specified
XX ± 0.03 in
XXX ± 0.10 in

CONFIGURATION STYLES

MOUNTING STYLE C



- [1] CIRCULAR CONNECTOR MS-STYLE OR EQUIVALENT
- [2] TERMINAL BARRIER (SHOWN WITHOUT COVER IN TOP VIEW, FOR CLARITY).
- [3] COIL TERMINALS MAY BE IDENTIFIED AS A-B OR X-Y.

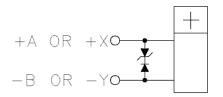


CIRCUIT DIAGRAMS

COIL CIRCUIT CONFIGURATION[3]

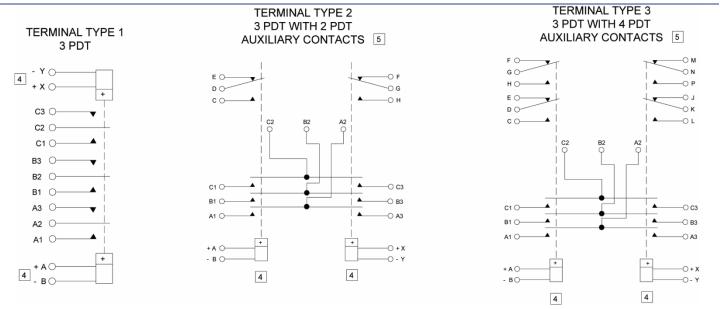






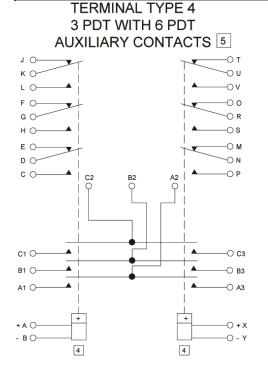
STANDARD WITH COIL SUPPRESSION "N" COIL

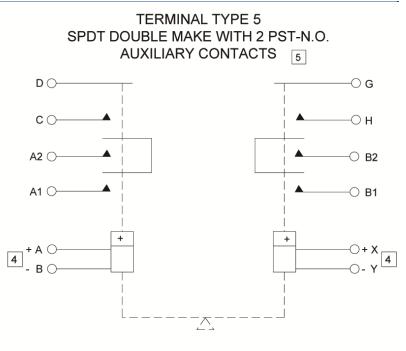
TERMINAL CONFIGURATION AND CIRCUIT DIAGRAMS

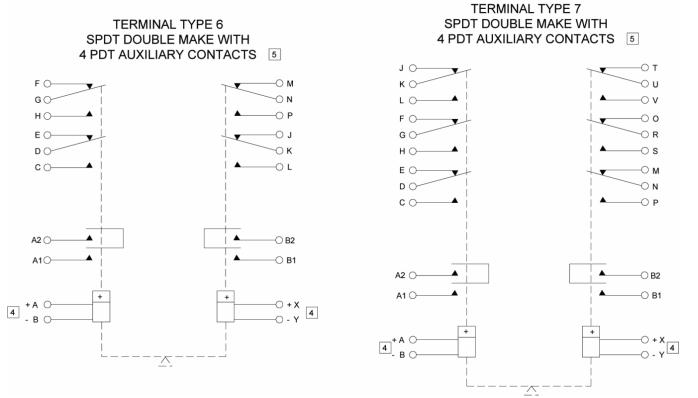




TERMINAL CONFIGURATION AND CIRCUIT DIAGRAMS (Continued)









TERMINAL CONFIGURATION AND CIRCUIT DIAGRAMS (Continued)

TERMINAL TYPE 9

IS A GENERAL CATAGORY USED FOR ALL TERMINAL TYPES NOT ILLUSTRATED. FOR OTHER VARIATIONS OF TERMINAL CONFIGURATIONS PLEASE CONTACT FACTORY.

[4] POLARITY INDICATION APPLIES TO D.C. COILS ONLY

[5] AUXILIARY CONTACT RATING: 28 VDC OR 115 VAC

RESISTIVE: 8 AMP INDUCTIVE: 5 AMP LAMP: 3 AMP

BOUNCE AT NOMINAL VOLTAGE: .004 SEC MAX

OTHER AUXILIARY CONTACT FORMS AVAILABLE, INCLUDING LOW LEVEL CAPACITY

NUMBERING SYSTEM

			WC -	- X	0	Х	-	XXX
Ras	sic series designation							
1.	Mounting styles		J					
2.	Terminal & Circuit							
3.	Coil voltage							
4.	XXX Designators							

NOTES

- 1. Inductive load life: 20,000 cycles.
- 2. Alternate contact configurations and other special models available upon request. Please contact factory.
- 3. Greater values for suppressed coils.
- 4. Terminal strength per para. 3.4.8.2.1 of MIL-R-6106.
- 5. Suppressed "N" coil has back EMF suppression to 62 volts max.
- 6. This series drawing is for general use only. Please consult factory for special requirements.

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