WL SERIES CONTACTOR, MAGNETIC LATCH 275 AMP, 3PDT



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 request, including models with auxiliary contacts.			

101 102

APPLICATION NOTES:

104 007

CONTACT ELECTRICAL CHARACTERISTICS

Contact rating per pole and load type	Load current in Amps				
	28 Vdc	115 Vac 400 Hz	115/200 Vac 400 Hz 3Ø		
Resistive	125	275	275		
Inductive [1]	75	275	275		
Motor	75	175	175		

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COIL CHARACTERISTICS (Vdc)

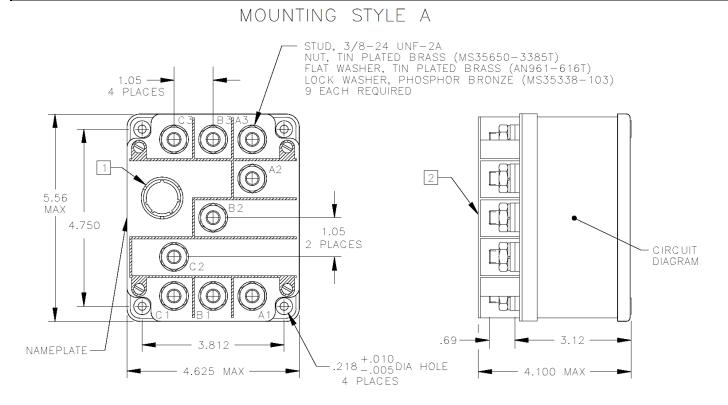
CODE	A Vdc	N [5] Vdc
Nominal operating voltage	28	28
Maximum operating voltage	29	30
Set & reset voltage, maximum		
- Nominal	18	18
- High temp test	20	20
- Continuous current test	22.5	22.5
Drop-out voltage, maximum	N /A	N/A
Coil resistance in Ohms ± 20% at +25° C [4]	9.8	9.8

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 (10-12 ms duration)	20G
Maximum contact opening time under vibration and shock	10 µs
Operate time at nominal voltage (Including bounce)	20 ms max
Contact bounce at nominal voltage	4.0 ms max
Weight	4.50 lb max
Overload	1,375 Amperes
Rupture	1,925 Amperes
Altitude	80,000 Feet

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CONFIGURATION STYLES



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

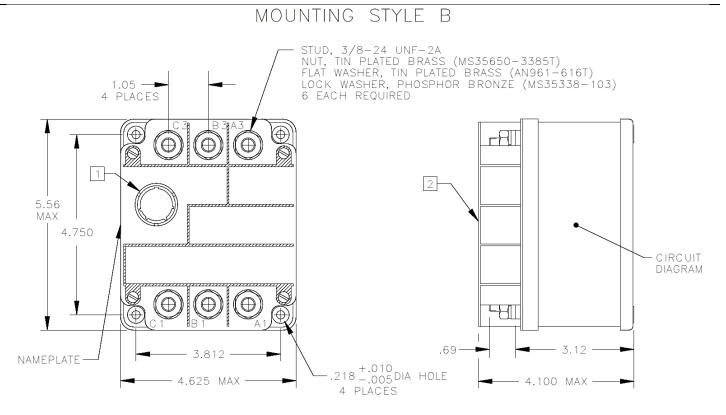
[1] CONNECTOR - MS3113H-16-26P OR EQUIVALENT.

[2] TERMINAL BARRIER (SHOWN WITHOUT COVER IN TOP VIEW, FOR CLARITY).

[3] COIL TERMINALS MAY BE IDENTIFIED AS A-B OR X-Y.

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CONFIGURATION STYLES



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

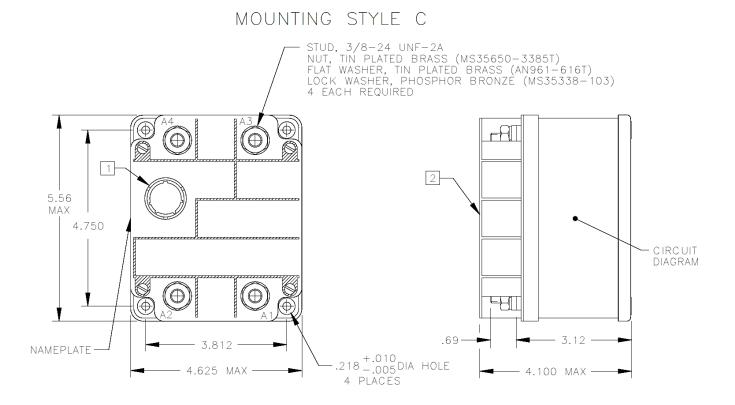
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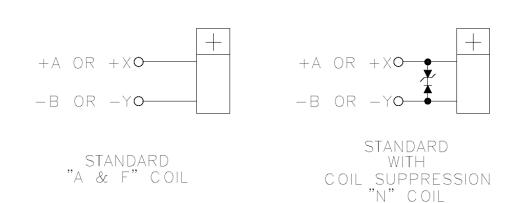
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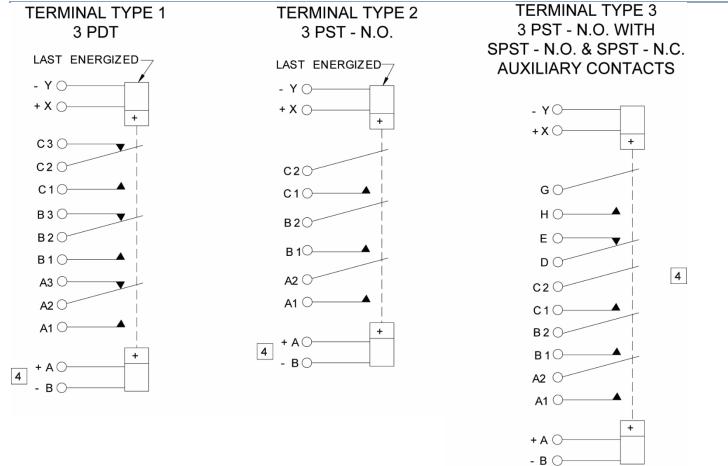
CIRCUIT DIAGRAMS

 $C \cap H$



CIRCUIT CONFIGURATION 3

TERMINAL CONFIGURATION AND CIRCUIT DIAGRAMS



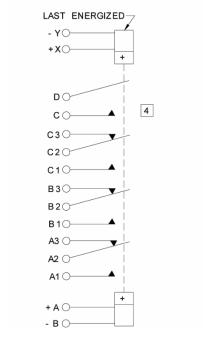
WL SERIES

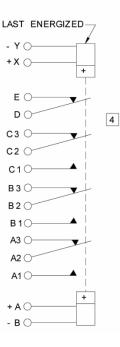
CONTACTOR, MAGNETIC LATCH

275 AMP, 3PDT

TERMINAL CONFIGURATION AND CIRCUIT DIAGRAMS (Continued)

TERMINAL TYPE 4 3 PDT - WITH SPST - N.O. AUXILIARY CONTACTS TERMINAL TYPE 5 3 PDT WITH SPST - N.C. AUXILIARY CONTACTS

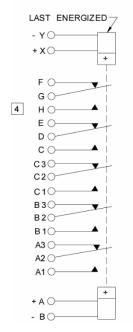




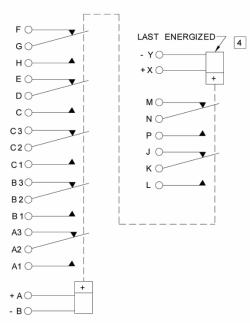
TERMINAL TYPE 6 SPDT - DOUBLE BREAK/MAKE WITH SPST - N.O. & SPST - N.C. AUXILIARY CONTACTS

LAST ENERGIZED 4 + Y 🔿 - X ()-+ F-O GO D A3 🔿 A4 () V ▼ A1 () A2 () + + A () - B 🔾

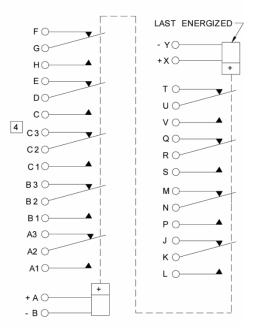
TERMINAL TYPE 7 3 PDT WITH 2 PDT AUXILIARY CONTACTS



TERMINAL TYPE 8 3 PDT WITH 4 PDT AUXILIARY CONTACTS



TERMINAL TYPE 10 3 PDT WITH 6 PDT AUXILIARY CONTACTS



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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] 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

NOTE:

Although all configuration and/or terminal type options are available, some combinations may require a setup charge and be subject to minimum order size.

NUMBERING SYSTEM

	WL	-	X	0	X	- XX	Х
Basic series designation							
1. Mounting styles							
2. Terminal & Circuit							
3. Coil voltage	 						
4. XXX Designators							

NOTES

- 1. Inductive load life, 20,000 cycles.
- 2. Terminal strength per para. 3.4.8.2.1 of MIL-R-6106.
- 3. Alternate contact configurations and other special models available upon request. Please contact factory.
- 4. Coil is self de-energizing. Do not ramp up voltage on these coils.
- 5. "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