Balanced-Force Design

Dust sealed

 Designed to the performance standards of MIL-PRF-6106

PRINCIPLE TECHNICAL CHARACTERISTICS

Main Contacts rated at	28 Vdc; 115/200 Vac, 400Hz	
Aux Contacts rated at	28 Vdc; 115 Vac, 400	
• Weight	1.125 lb max	
Dimensions	3.77in x 3.72in x 2.60in	
Special units available upon request.		

CONTACT ELECTRICAL CHARACTERISTICS

Contact rating per load type, main contact	Load current in Amps		
	28 Vdc	115/200 Vac 400 Hz	
Resistive	50	50	
Inductive	20	50	
Rupture	150	500	
Contact rating per load type, auxiliary contact	28 Vdc	115 Vac/400 Hz	
Resistive	5A and low level	5A	
Inductive	3A	5A	
Rupture	N/A	N/A	

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The technical information provided by Leach International Corporation is to be used as a guide only, and is not meant for publication or as documentation for altering any existing specification. Dimensions are in inches unless otherwise specified. Rev. 7/2019.

HBSERIES CONTACTOR, CURRENT SENSING BUSBAR MOUNTING 3 PST+AUX, 50 AMP

HBSERIES CONTACTOR, CURRENT SENSING BUSBAR MOUNTING 3 PST+AUX, 50 AMP

COIL CHARACTERISTICS (Vdc)

CODE	A Vdc	B Vdc	C Vdc	F Vac 400 Hz	N Vdc
Nominal operating voltage	28	12	6	115	28
Maximum operating voltage	29	14.5	7.3	124	29
Pick-up voltage, maximum					
- Nominal	18	9	4.5	90	18
- High temp test	20	10	5	95	20
- Continuous current test	22.5	11	5.7	100	22.5
Drop-out voltage, maximum	1 to 8	4.5	2.5	30	7
Coil resistance in Ohms ±10% at +25° C	200	50	12	-	200
Coil current max. mA at +25° C	-	-	-	90	-

GENERAL CHARACTERISTICS

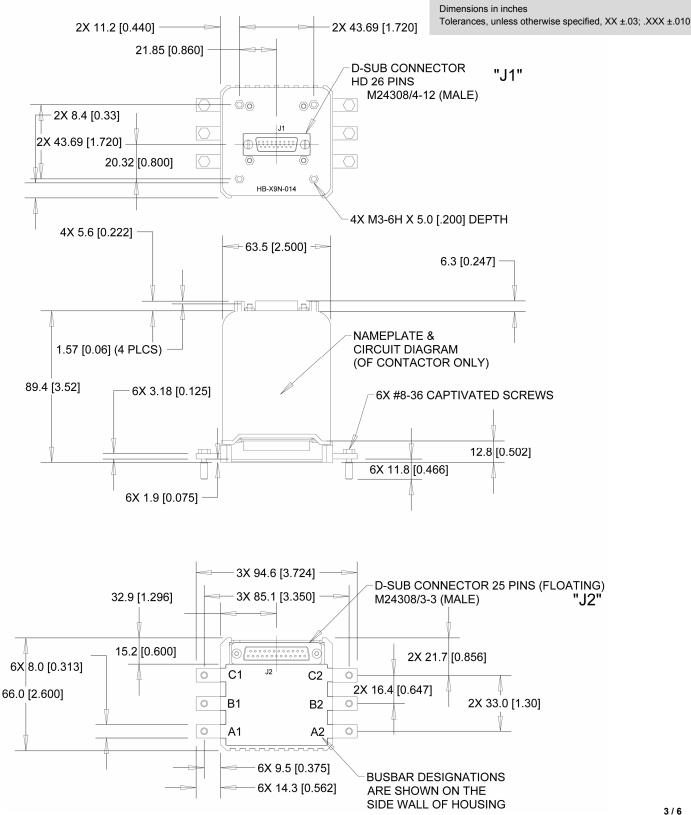
Temperature range	-54°C to + 85°C
Minimum electrical operating cycles (life) at rated resistive load	50,000
Minimum mechanical operating cycles (life) at 25% rated resistive load	100,000
Dielectric strength at sea level	
- Coil and aux. contacts to ground	500 Vrms
- All main contacts to contacts and to ground	1,500 Vrms [5]
Dielectric strength at altitude: 50,000 feet	
- Coil and aux. contacts to ground	500 Vrms
- All main contacts to contacts and to ground	700 Vrms
Insulation resistance	
- Initial	100 M Ω
- After environmental tests	50 M Ω
Sinusoidal vibration	10 G / 70 to 2000 Hz
Shock (11 ms duration)	20 G
Maximum contact opening time under vibration and shock	<10 ms
Operation time at normal voltage (Including bounce)	
- D.C. Coil	15 ms max
- A.C. Coil	50 ms max
Release time at nominal voltage - including bounce	
- D.C. Coil	25 ms max
- A.C. Coil	80 ms max
Contact bounce at nominal voltage	3 ms max
Overload @ 115/200 Vac 400Hz @ 28 Vdc	900 Amps
Rupture @ 115/200 Vac 400Hz @ 28 Vdc	500 Amps

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

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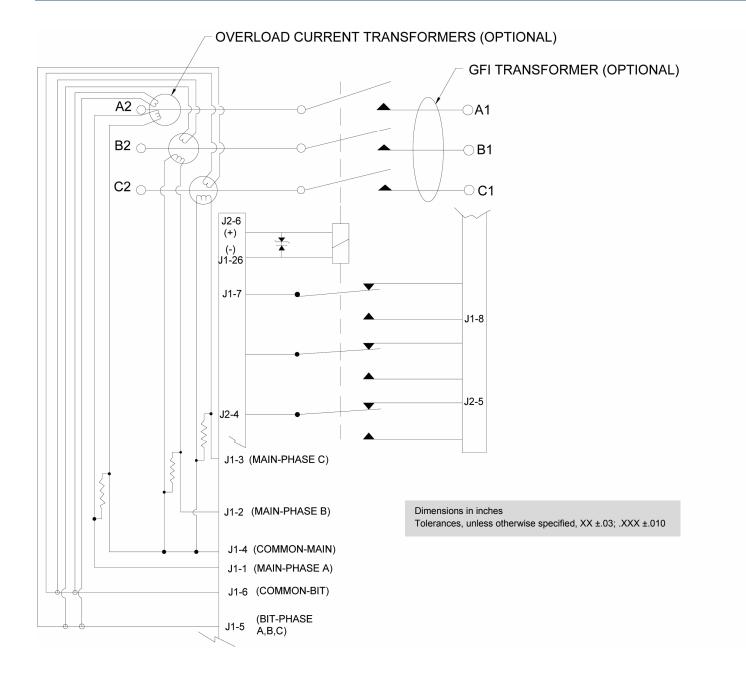
HBSERIES CONTACTOR, CURRENT SENSING BUSBAR MOUNTING 3 PST+AUX, 50 AMP

CONFIGURATION STYLES



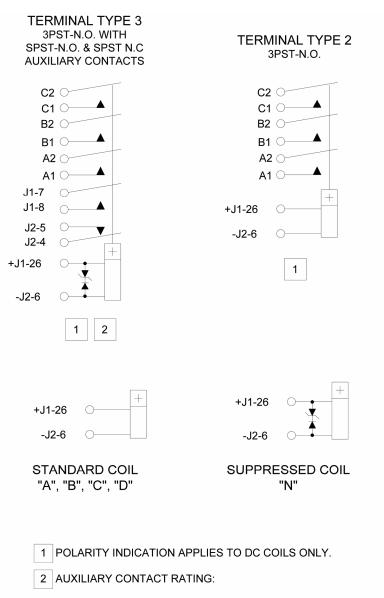
HBSERIES CONTACTOR, CURRENT SENSING BUSBAR MOUNTING 3 PST+AUX, 50 AMP

SCHEMATIC DIAGRAMS



HBSERIES CONTACTOR, CURRENT SENSING BUSBAR MOUNTING 3 PST+AUX, 50 AMP

CIRCUIT DIAGRAMS



28 VDC OR 115 VAC

RESISTIVE	5 AMP
INDUCTIVE	3 AMP
LAMP	1 AMP

CONTACT BOUNCE AT NOMINAL VOLTAGE (SECONDS) .004 MAX

NOTE: OTHER AUXILIARY CONTACT FORMS ARE AVAILABLE. PLEASE CONTACT FACTORY.

TERMINAL TYPE 9 IS A GENERAL CATEGORY USED FOR ALL TERMINAL TYPES NOT ILLUSTRATED FOR OTHER VARIATIONS OF TERMINAL CONFIGURATIONS PLEASE CONTACT FACTORY

HBSERIES CONTACTOR, CURRENT SENSING BUSBAR MOUNTING 3 PST+AUX, 50 AMP

NUMBERING SYSTEM

		HB	. X	2	N
Rela	ay family				
1.	Mounting styles				
2.	Terminal & Circuit				
3.	Coil Voltage				

NOTES

1. Wiring protection for ground fault and overload currents is available. Consult factory

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