



- 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

## COIL CHARACTERISTICS (Vdc)

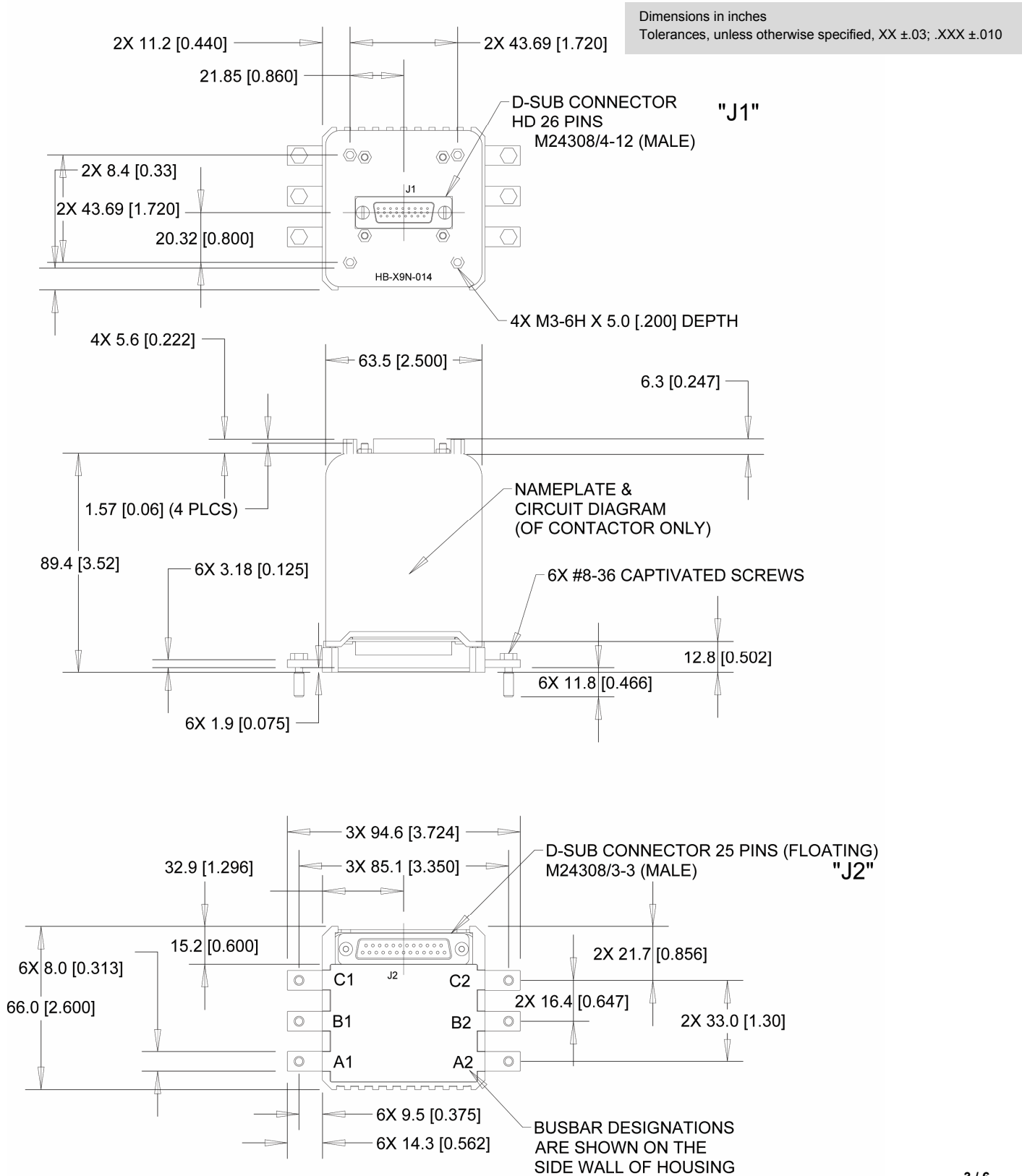
CODE	A Vdc	B Vdc	C Vdc	F Vac 400 Hz	N Vdc
Nominal operating voltage	28	12	6	115	28
Maximum operating voltage	29	14.5	7.3	124	29
<b>Pick-up voltage, maximum</b>					
- Nominal	18	9	4.5	90	18
- High temp test	20	10	5	95	20
- Continuous current test	22.5	11	5.7	100	22.5
Drop-out voltage, maximum	1 to 8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

## GENERAL CHARACTERISTICS

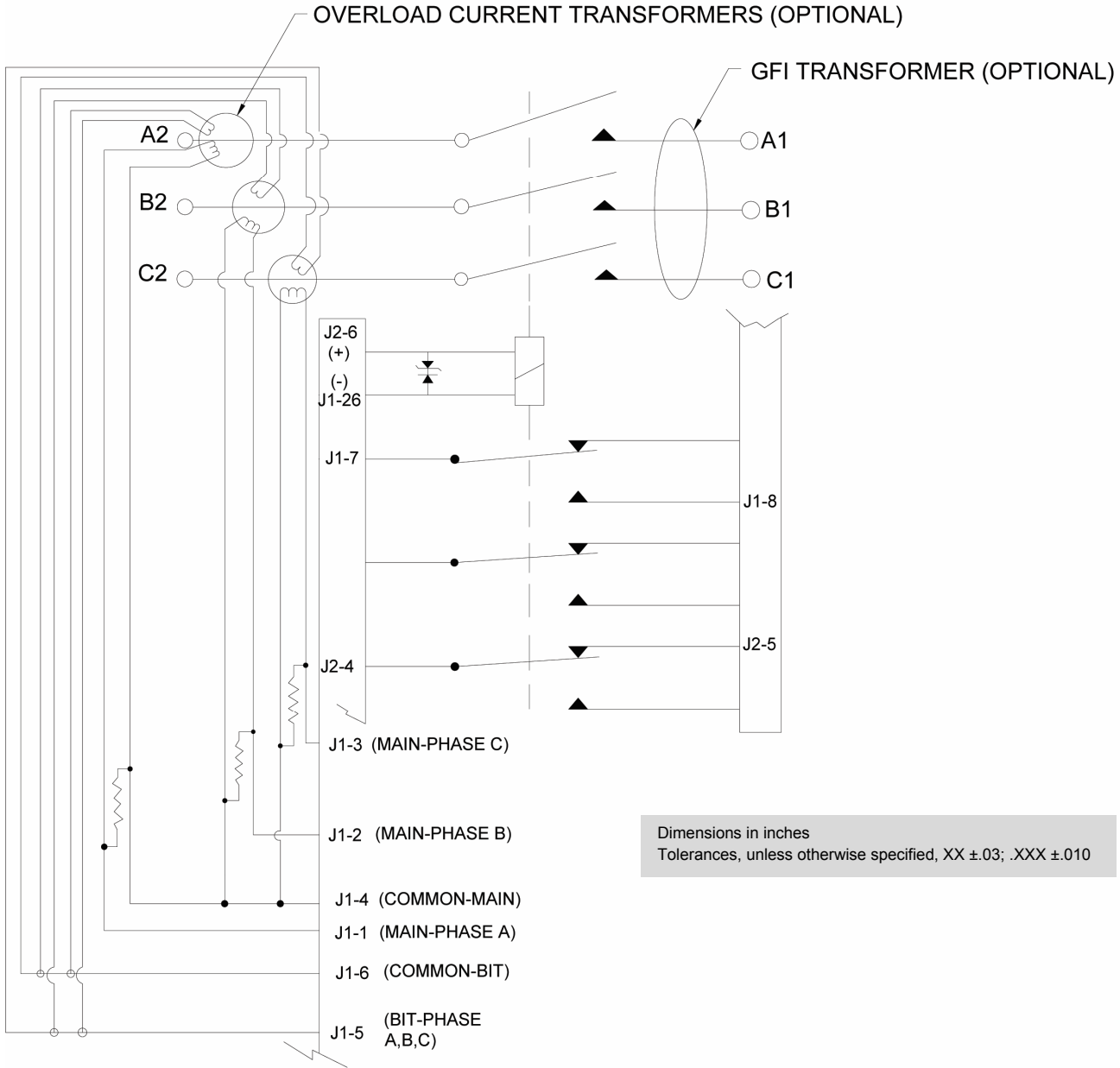
Temperature range	-54°C to + 85°C
Minimum electrical operating cycles (life) at rated resistive load	50,000
Minimum mechanical operating cycles (life) at 25% rated resistive load	100,000
<b>Dielectric strength at sea level</b>	
- Coil and aux. contacts to ground	500 Vrms
- All main contacts to contacts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

## CONFIGURATION STYLES

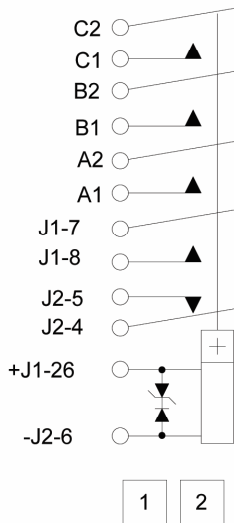


## SCHEMATIC DIAGRAMS

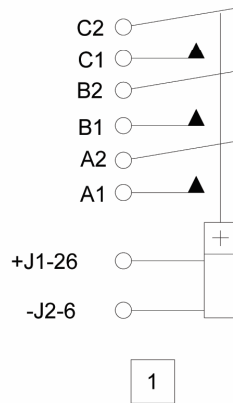


## CIRCUIT DIAGRAMS

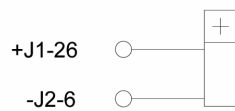
**TERMINAL TYPE 3**  
3PST-N.O. WITH  
SPST-N.O. & SPST N.C  
AUXILIARY CONTACTS



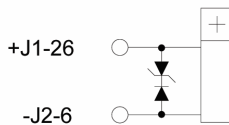
**TERMINAL TYPE 2**  
3PST-N.O.



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



**STANDARD COIL**  
"A", "B", "C", "D"



**SUPPRESSED COIL**  
"N"

1 POLARITY INDICATION APPLIES TO DC COILS ONLY.

2 AUXILIARY CONTACT RATING:

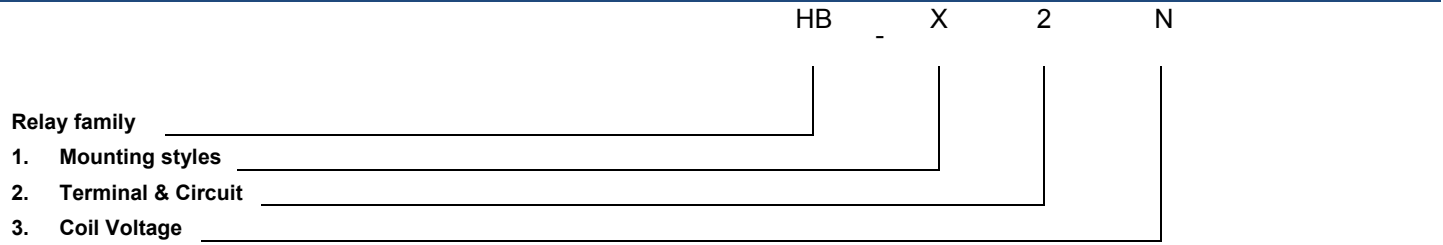
28 VDC OR 115 VAC

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.

## NUMBERING SYSTEM



## 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](http://leachcorp.com)