H, HD, HT, HTD SERIES CONTACTOR 60 AMP



Balanced-Force Design

- · Hermetically sealed
- Designed to the performance standards of

MIL-PRF-6106

PRINCIPLE TECHNICAL CHARACTERISTICS

Application Notes:
101
102
104
105
007

Contacts rated at	28 Vdc and 115 Vac, 400 Hz, 1Ø and 115/200 Vac, 400 Hz, 3Ø				
• Weight	14.0 Oz.				
Special units available upon request, including models with auxiliary contacts. Op					

• Special units available upon request, including models with auxiliary contacts. Optional Ground Fault Protection (GFP) feature available. Contact factor for information on MIL-qualified part numbers.

CONTACT ELECTRICAL CHARACTERISTICS

Contact rating per pole and load type [1]	Load current in Amps						
	28	Vdc	115 Vao	: 400 Hz	115/200 Vac 400 Hz 3Ø	115 Vac 60 Hz DELTA	
Resistive	50	50 [5]	60	65 [5]	60	30	
Inductive [2]	20	20 [5]	60	65 [5]	60	30	
Motor	20	-	-	-	40	30	
Lamp	10	-	-	-	15	-	
Load transfer [3]	-	-	12.5/60	12.5/60	12.5/60	-	

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COIL CHARACTERISTICS (Vdc)

CODE	A Vdc	B Vdc	C Vdc	F Vac 400 Hz	N [6] 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	7	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	-55°C to +71°C				
Minimum operating cycles (life) at rated resistive load	50,000				
Minimum operating cycles (life) at 25% rated resistive load	200,000				
Dielectric strength at sea level					
- All circuits to ground and circuit to circuit	1500 Vrms				
- Coil to ground and aux. contacts	1000 Vrms				
Dielectric strength at altitude: 50,000 feet					
- Main Contacts	700 Vrms				
- Coil and aux. contacts	500 Vrms				
Insulation resistance					
- Initial	100 M Ω min				
- After environmental tests	50 M Ω min				
Sinusoidal vibration	10 G / 70 to 2000 Hz				
Shock (6 ms duration)	50 G				
Maximum contact opening time under vibration and shock	10 µs				
Overste time at normal valtere (Including howse)	50 ms max				
Operate time at normal voltage (Including bounce)	35 ms max. [5]				
Release time at nominal voltage (Including bounce)					
- DC	25 ms max				
- AC	80 ms max				
Contact bounce at nominal voltage	3 ms max				
Weight	14.0 Oz. max.				
	11.5 Oz. max. [5]				
Power requirements:					
- at pick-up +25°C	0.980 watt				
- at nominal D.C. voltage	4.35 watt max.				
Overload @ 115/200 Vac, 400Hz. @ 28 Vdc	400 Amp 125 Amp				
Rupture @ 115/200 Vac, 400Hz. @ 28 Vdc	500 Amp 150 Amp				

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

H, HD, HT, HTD SERIES CONTACTOR **60 AMP**

Dimensions in inches Tolerances, unless otherwise specified, XX ±.03; .XXX ±.010

MOUNTING STYLES

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 \bigcirc

X2

 \bigcirc \bigcirc

C3 B3

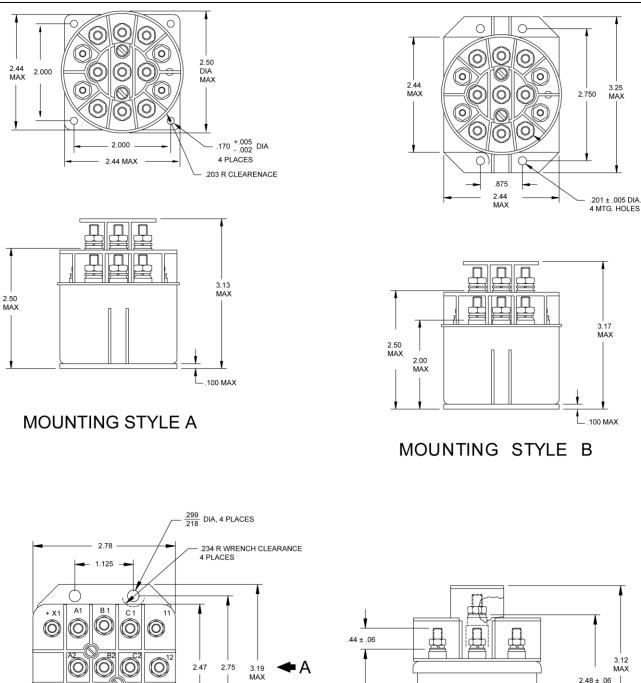
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13

1

 (Θ)

.56 -



1.94 ± .06

.130 MAX

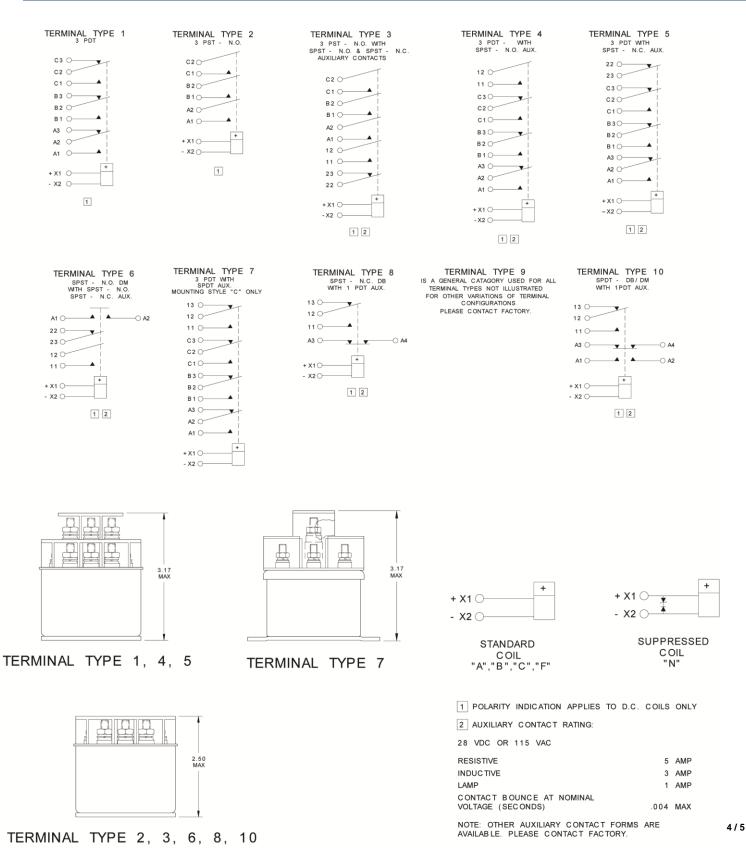
VIEW A

H, HD, HT, HTD SERIES CONTACTOR 60 AMP

Tolerances, unless otherwise specified, XX ±.03; .XXX ±.010

Dimensions in inches

TERMINAL CONFIGURATION AND CIRCUIT



NUMBERING SYSTEM

		Н	-	Х	0	Х	
	[7]	HD	-	Х	0	Х	
			-				
	[4]	ΗT	-	Х	0	Х	
	[7]	HTD	-	Х	0	Х	
					I		
Relay family							
1. Mounting styles (A, B Etc.)							
2. Terminal & Circuit (1, 2, 3, Etc.)							
3. Coil Voltage (A, B, C, F & N)							

NOTES

- 1. Auxiliary contact rating see page 5, note [2]
- 2. Inductive load life, 20,000 cycles.
- 3. Applicable military specification: MS27751, MIL-R6106/26, MIL-R6106/43.
- Suitable for transfer between unsyncronized A.C. power sources at the ratings indicated: 12.5 amperes for series "H, HD"; (MS27751-1,-7,-8,-9,-10 & -15).
 60 Amperes for series "HT, HTD"; (MS27751-11,-12,-17,-18,-19 & -20).
- 5. Terminal type 6, 8, & 10.
- 6. Suppressed "N" coil has back EMF suppression to 42 volts max. Consult factory.
- 7. Non-hermetic, gasket sealed version.

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