SERIES HC, HCD, HCP

ENGINEERING DATA SHEET

CONTACTOR **CENTER-OFF 50 AMP**



APPLICATION NOTES:

101

102

007

Balanced-Force Design Hermetically sealed Designed to the

performance standards of

MIL-PRF-6106

PRINCIPLE TECHNICAL CHARACTERISTICS

28 Vdc and 115 Vac, 400 Hz, 1Ø Contacts rated at

and 115/200 Vac, 400Hz, 3Ø

15.0 oz. Weight

Special units available upon request, including models with auxiliary contacts.

CONTACT ELECTRICAL CHARACTERISTICS

Contact rating per pole	• • • • • • • • • • • • • • • • • • • •		mps
and load type [4]	28 Vdc	115 Vac 400 Hz	115/200 Vac 400 Hz 3Ø
Resistive	25	50 [8]	50 [8]
Inductive [1]	15	50 [8]	50 [8]
Motor	15	30	30
Lamp	10	15	15
Transfer load [7]	-	12.5	12.5



Featuring **LEACH**© power and control solutions www.esterline.com

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France

Data sheets are for initial product selection and comparison. Contact Esterline Power Systems prior to choosing a component.

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COIL CHARACTERISTICS (Vdc)

SERIES HC,HCD,HCP

CODE	A Vdc	B Vdc	C Vdc	F Vac 400Hz	N [4] Vdc
Nominal operating voltage	28	12	6	115	28
Maximum operating voltage	29	14.5	7.3	124	29
Pick-up voltage, at +71° C maximum	,	,	,	,	,
- Nominal	18	9	4.5	90	18
- High temp test	20	10	5	100	20
- Continuous current test	21	10.5	5.3	105	21
Drop-out voltage, maximum	7	4.5	2.5	45	7
Coil resistance in ohms ±10% at +25° C	175	44	11	-	200
Coil current max. milliampere at +25° C	-	-	-	100	-

GENERAL CHARACTERISTICS

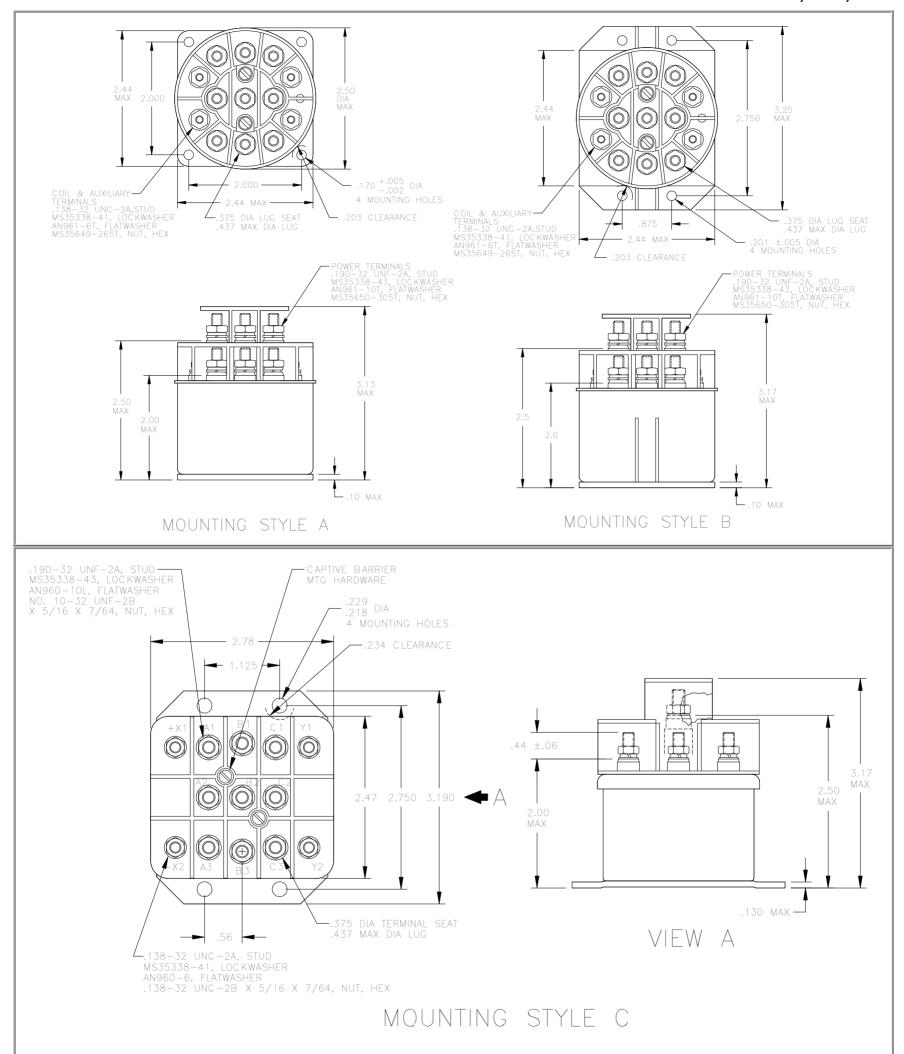
CENERAL CHARACTERIOTIOS	
Temperature range	-55°C to +71°C
Minimum operating cycles (life) at rated resistive load	50,000
Minimum operating cycles (life) at 25% rated resistive load	200,000
Dielectric strength at sea level	,
- All circuits to ground and circuit to circuit	1500 Vrms[9]
- Coil to ground 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
Operate time at nominal voltage (Including bounce)	,
- DC	35 ms max.
- AC	60 ms max
Release time at nominal voltage (Including bounce)	,
- DC	25 ms max
- AC	80 ms max
Contact bounce at nominal voltage	3 ms max
Weight	15.0 oz. max.
Power requirements:	,
- at nominal D.C voltage	4.35 watt
Overload - 115/200 Vac, 400Hz @ 28 Vdc	400 Amp 100 Amp
Rupture - 115/200 Vac, 400Hz @ 28 Vdc	400 Amp 125 Amp

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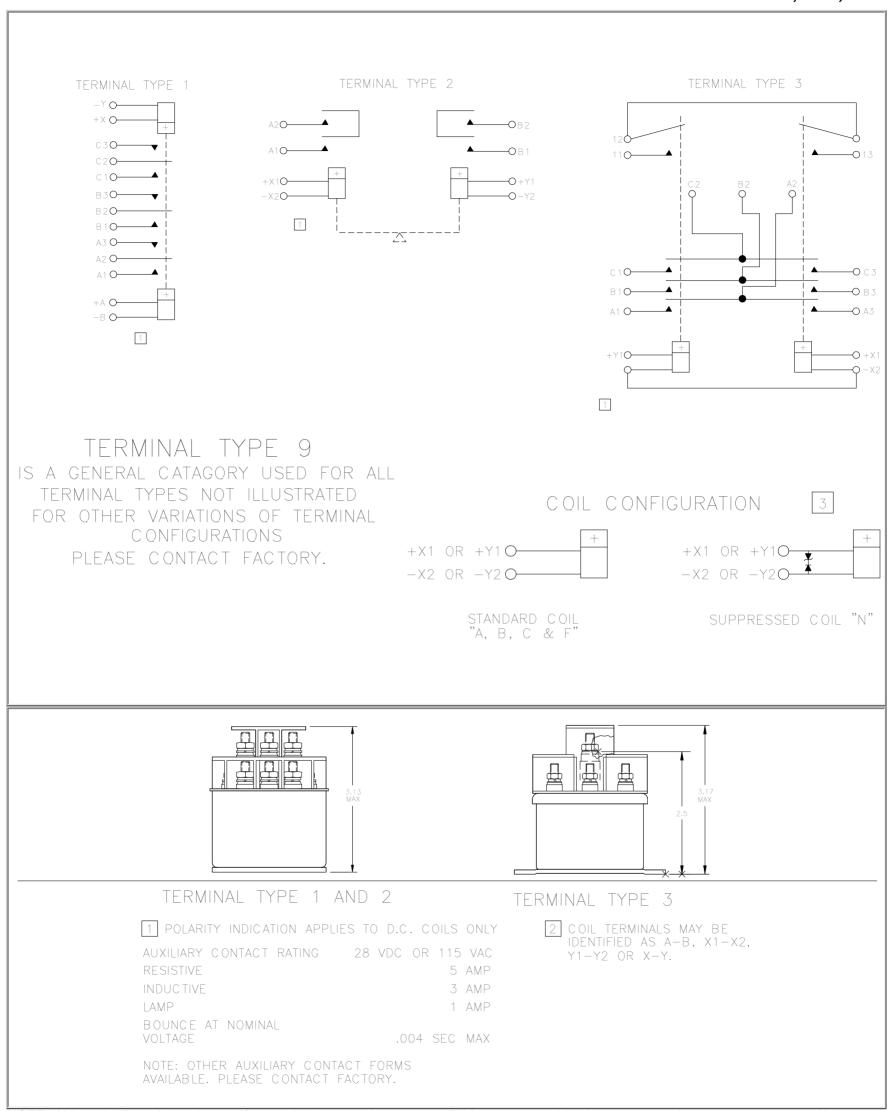
[5]HCD - X 0 X [6]HCP - X 0 X Relay family 1-Mounting Style(A,B,Etc.) 2-Terminal & Circuit (1,2,3,Etc.) 3-Coil Voltage(A,B,C,F & N)	НС	- X	0	X	
Relay family 1-Mounting Style(A,B,Etc.)	[5]HCD	- X	0	X	
1-Mounting Style(A,B,Etc.) 2-Terminal & Circuit (1,2,3,Etc.)	[6]HCP	- X	0	X	
2-Terminal & Circuit (1,2,3,Etc.)					
2-Coil Voltago(A P C F & N)					
5-coil voicage(A,B,C,F & N)					
5-Coll Voltage(A,B,C,F & N)		[5]HCD [6]HCP	[5]HCD - X [6]HCP - X 	[5]HCD - X 0 [6]HCP - X 0 	[6]HCP - X 0 X

NOTES

- [1] Inductive load life: 20,000 cycles.
- 2. Applicable military specification: MS27750.
- 3. Alternate contact configurations and other special models availablle upon request; Please contact factory.
- [4] Suppressed "N" coil has back EMF suppression to 42 volts max. Consult factory.
- [5] Non hermetic, gasket sealed version.
- [6] Non hermetic, not metallic cover, gasket sealed version. (Not available with mounting style C).
- [7] Suitable for transfer between unsynchronized AC power sources at ratings indicted.
- [8] These values are 30, for AC coil models.
- [9] 1250 VRMS for auxiliary contacts.



STANDARD TOLERANCE: XX ± .03, XXX ± .010



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.