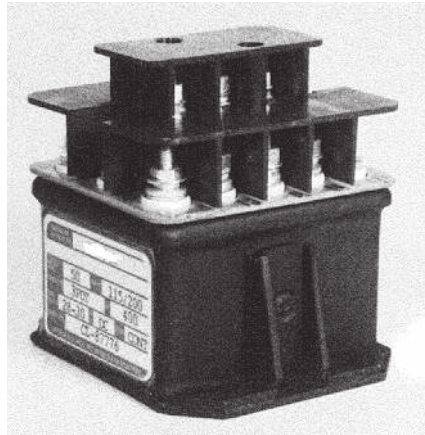


**D18, DH18 and DHR18 Series, Rated up to 50 Amps,
115/200 VAC, 400 Hz**

Product Facts

- 3PDT, Center off
- Gasket sealed or Hermetically sealed
- Meets many requirements of MIL-PRF-6106



For factory-direct application assistance, phone 419-521-9500 or fax 419-526-2749.

Performance Data

- Electrical Characteristics**
- Contact Arrangement** — 3PDT, Center Off
 - Rated Operating Voltage** — 115/200 VAC, 400 Hz
 - Resistive Rating** — 50 Amps
 - Inductive Rating** — 50 Amps
 - Motor Rating** — 30 Amps
 - Lamp Rating** — 15 Amps
 - Rupture Rating** — 400 Amps

General Characteristics

- Temperature Range** — -55°C to +71°C
- Operating Cycles (Life) at Rated Resistive Load, Min.** — 50,000 cycles
- Operating Cycles (Life) Mechanical, Min.** — 100,000 cycles
- Dielectric Strength** — All Circuits to Ground — 1,500 Vrms
Circuit to Circuit — 1,500 Vrms
Coil to Ground and Aux. Contacts — 1,000 Vrms
- Insulation Resistance, Initial** — 100 megohm min.
- Altitude** — D-18 — 50,000 ft.
DH-18, DHR-18 — 80,000 ft.
- Weight, Max.** — .94 to 1.50 lbs

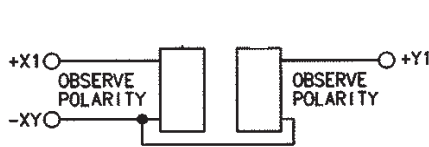
Sinusoidal Vibration — 10 G @ 70 to 2,000 Hz

- Shock, Max.** — 25 G
- Operate Time @ Nom. Voltage, Max.** — 35 msec
- Release Time @ Nom. Voltage, Max.** — 15 msec
- Bounce Time @ Nom. Voltage, Max.** — 5 msec

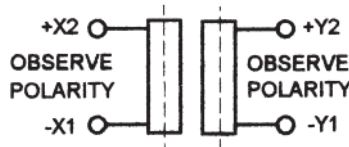
Coil Characteristics

- Duty Cycle** — AC Continuous (Type E, See diagram below)
DC Continuous (Type A-D, See diagram below)
- Operating Voltage, Nom.** — 28 Vdc
- Pickup Voltage @ 25°C, Max.** — Coil Type A — 18 Vdc
Coil Type B — 15 Vdc
- Dropout Voltage @ 25°C, Max.** — Coil Type A — 1.5 to 7 Vdc
Coil Type B — 2.5 to 6.5 Vdc
- Coil Resistance ±20% @ 25°C** — 175 Ohms
- Coil Current @ 25°C, Max.** — .175 Amp

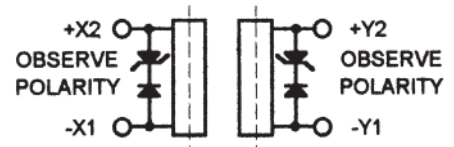
Coil Type



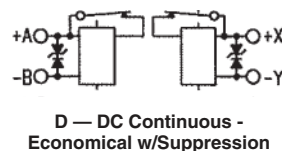
A — DC Continuous



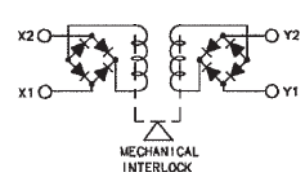
B — DC Continuous



C — DC Continuous with Suppression



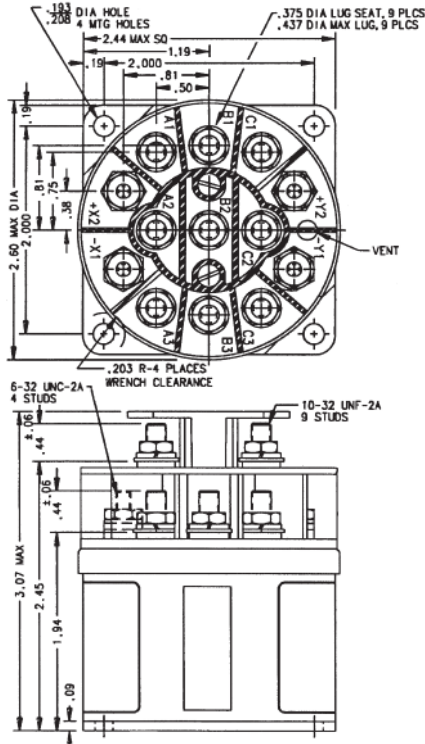
D — DC Continuous - Economical w/Suppression



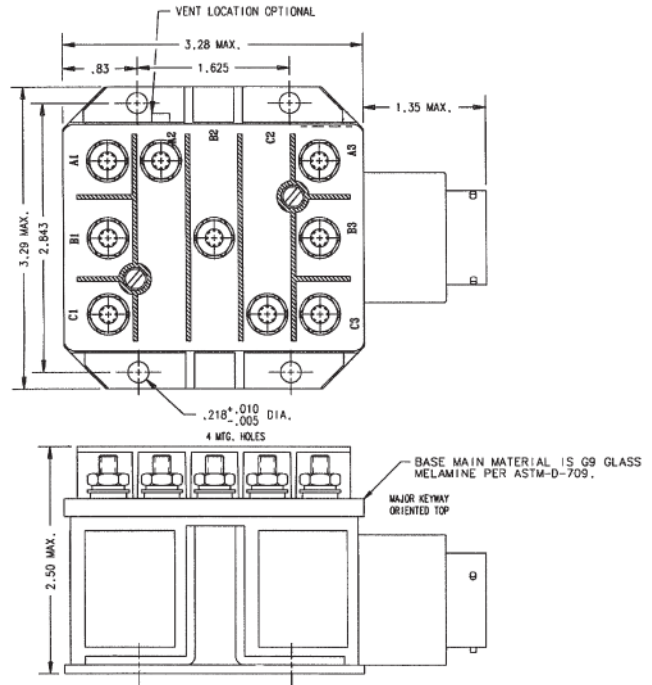
E — AC Continuous

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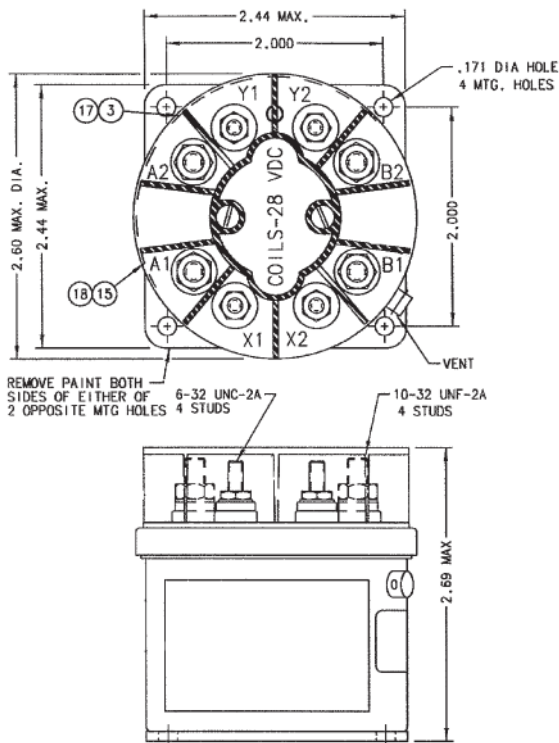
D18, DH18 and DHR18 Series Contactors, Rated up to 50 Amps, 115/200 VAC, 400 Hz (Continued)



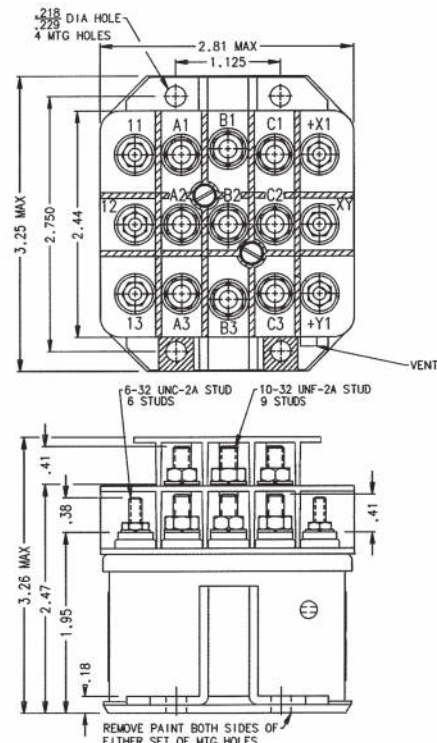
Mounting Style A



Mounting Style B



Mounting Style C

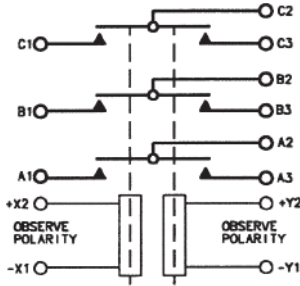


Mounting Style D

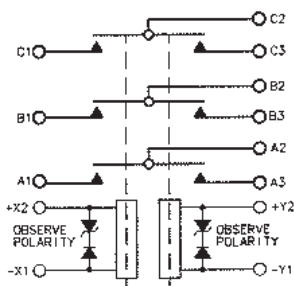
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D18, DH18 and DHR18 Series Contactors, Rated up to 50 Amps, 115/200 VAC, 400 Hz (Continued)

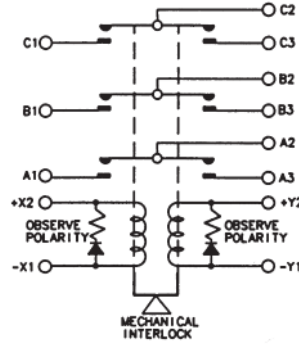
Circuit Configurations (Consult factory for other available circuit configurations)



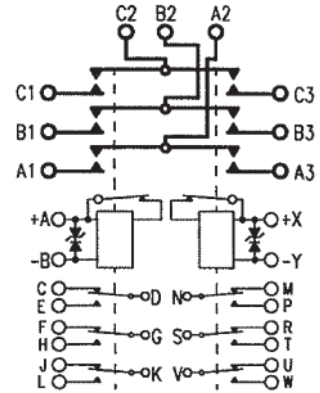
Circuit Configuration 1



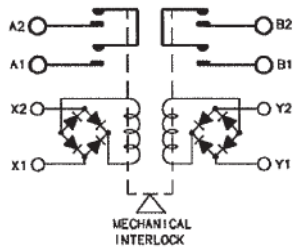
Circuit Configuration 2



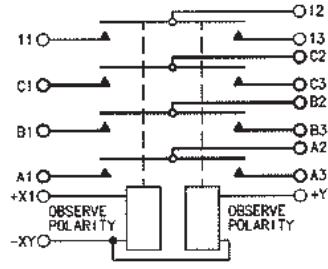
Circuit Configuration 3



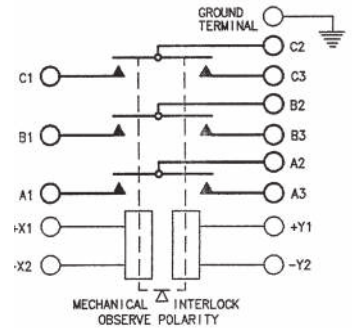
Circuit Configuration 4



Circuit Configuration 5



Circuit Configuration 6



Circuit Configuration 7

HARTMAN Part Number	Construction Type	Mounting Style	Coil Type	Circuit Config.	TE Part Number
D-18	Gasket/Vented	A	A	1	1616048-1
D-180A	Gasket/Vented	D	C	6	1616048-2
D-18AA	Gasket/Vented	A	B	2	1616048-3
D-18F	Gasket/Vented	A	B	3	1616048-4
D-18ZZC	Gasket/Vented	B	D	4	1-1616957-3
DH-18	Hermetically Sealed	A	A	1	1616050-1
DH-18Y	Hermetically Sealed	A	A	7	1616524-3
DR-18E-5	Gasket/Vented	C	E	5	1616099-1

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