

## D7, DH7, DHR7, DR7 Series, Rated up to 50 Amps, 115/200 VAC, 400 Hz

### Product Facts

- 3PDT and 3PST NO
- Gasket sealed or Hermetically sealed
- Auxiliary contacts available
- Meets many requirements of MIL-PRF-6106



### Performance Data

#### Electrical Characteristics

**Contact Arrangement** — 3PDT and 3PST NO

**Rated Operating Voltage** — 115/200 VAC, 400 Hz, 3 phase

**Resistive Rating** — 50 Amps

**Inductive Rating** — 50 Amps

**Motor Rating** — 30 Amps

**Lamp Rating** — 15 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** — D7, DR7 — 50,000 ft  
DH7, DHR7 — 80,000 ft

**Weight, Max.** — .94 to 1.20 lbs

### Coil Characteristics

#### Duty Cycle

VAC 400 Hz — AC Continuous (Type A & E, See diagram below)

Vdc — Continuous (Type B, See diagram below)

Vdc — Continuous with suppression (Type C & D, See diagram below)

#### Operating Voltage, Nom.

VAC 400 Hz — 115 VAC

Vdc — 28 Vdc

#### Pickup Voltage @ 25°C, Max.

VAC 400 Hz — 75 VAC

Vdc — 18 Vdc

#### Dropout Voltage @ 25°C, Max.

VAC 400 Hz — 12 to 38 VAC

Vdc — 1 to 7 Vdc

#### Coil Resistance ±20% @ 25°C

VAC 400 Hz — 505 Ohms

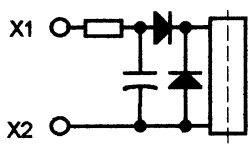
Vdc — 126 Ohms

#### Coil Current @ 25°C, Max.

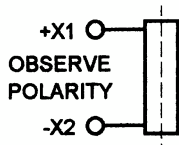
VAC 400 Hz — .065 Amp

Vdc — .28 Amp

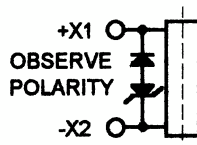
### Coil Type



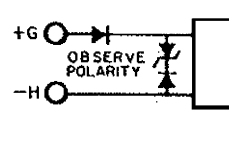
A — AC Continuous



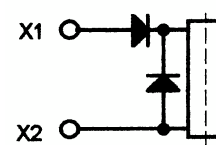
B — Continuous



C — Continuous with Suppression



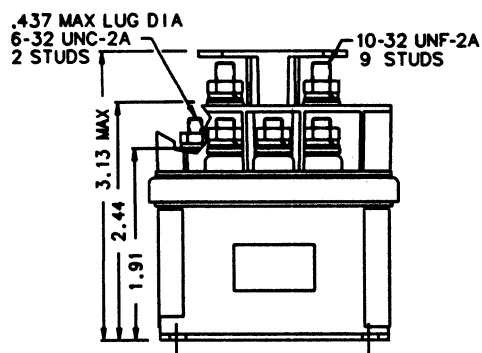
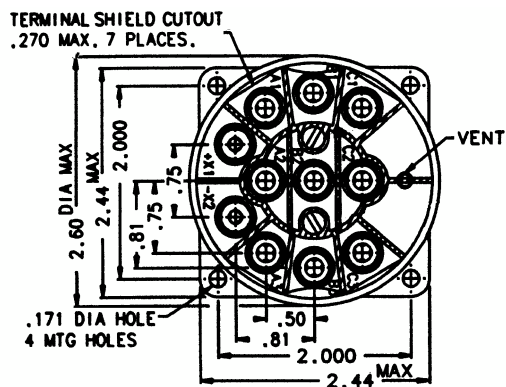
D — Continuous with Suppression



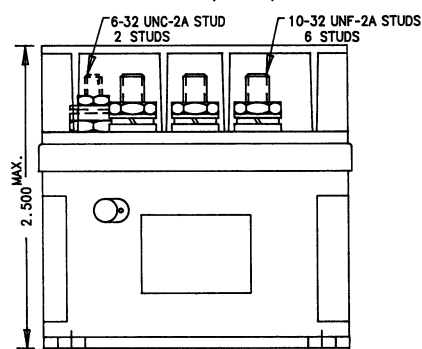
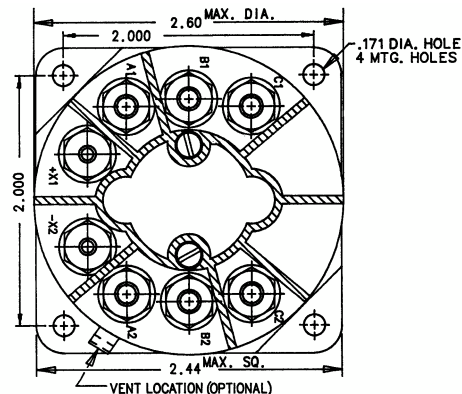
E — AC Continuous

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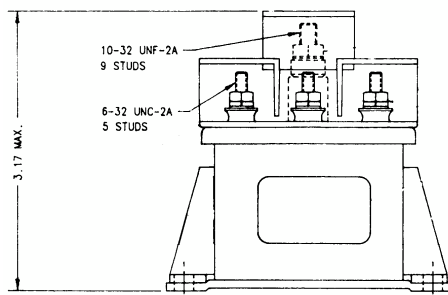
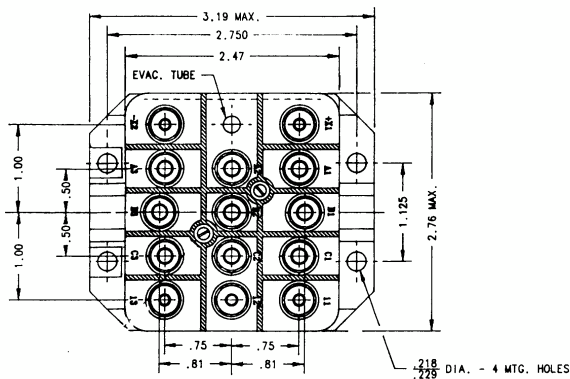
## D7, DH7, DHR7, DR7 Series, Rated up to 50 Amps, 115/200 VAC, 400 Hz (Continued)



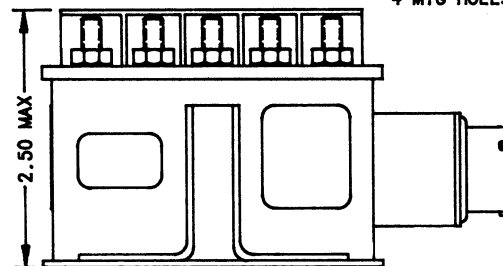
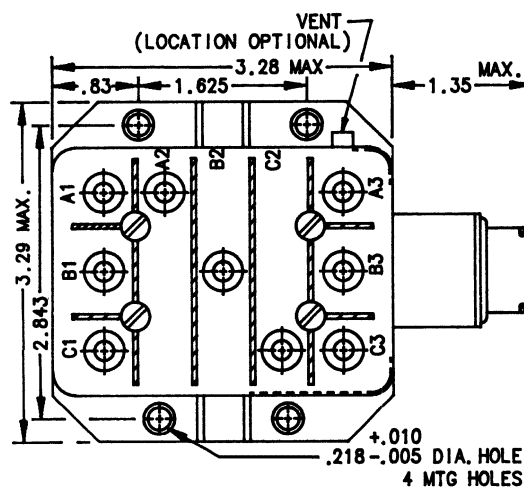
Mounting Style A



Mounting Style B



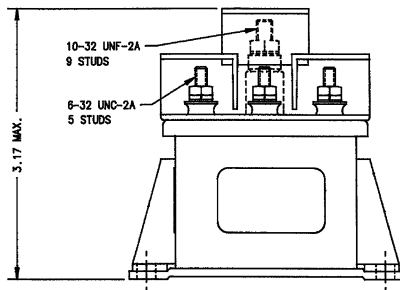
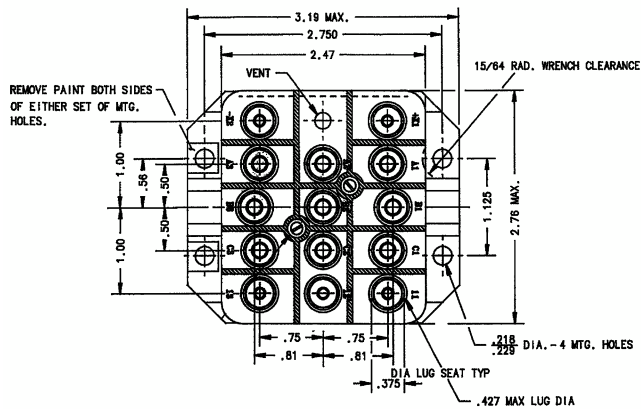
Mounting Style C



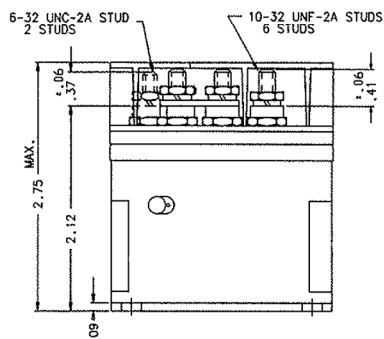
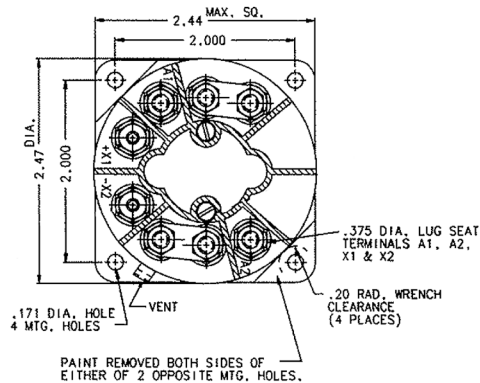
Mounting Style D

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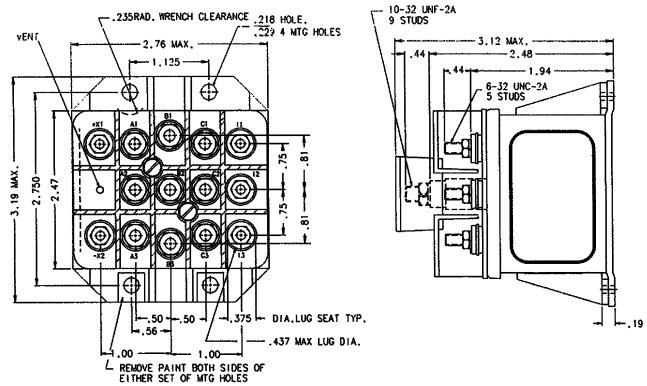
## D7, DH7, DHR7, DR7 Series, Rated up to 50 Amps, 115/200 VAC, 400 Hz (Continued)



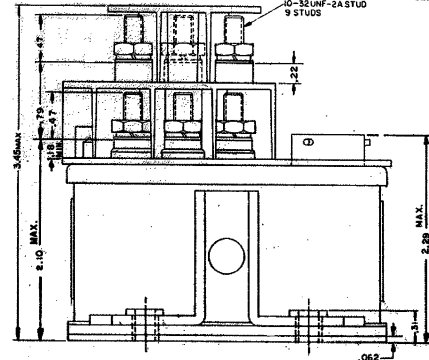
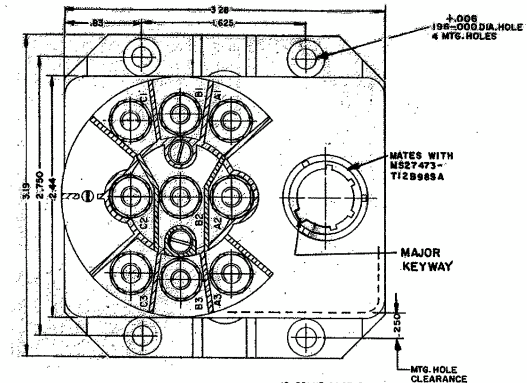
Mounting Style E



Mounting Style G



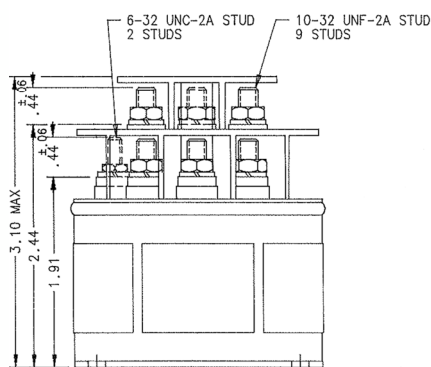
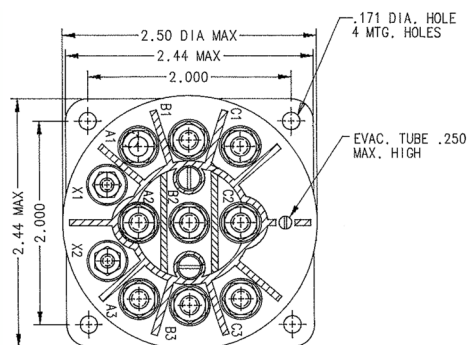
Mounting Style F



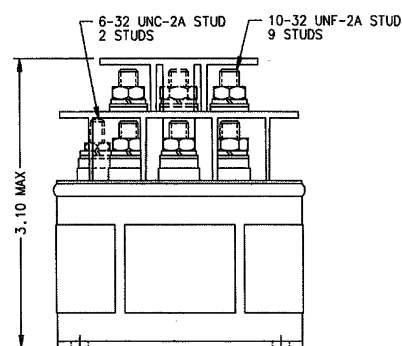
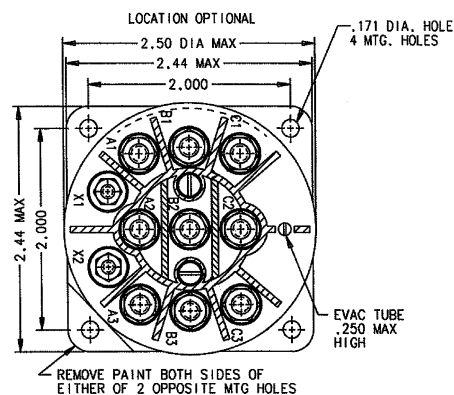
Mounting Style H

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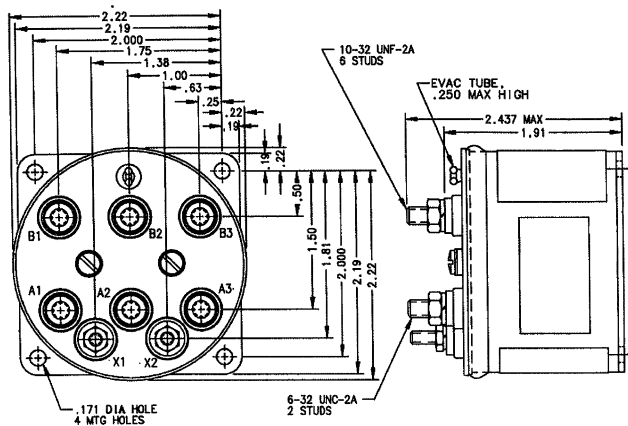
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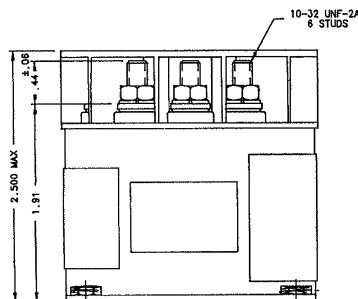
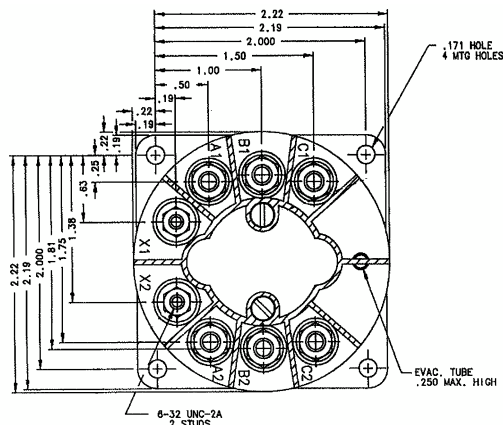
Mounting Style I



Mounting Style J



Mounting Style K

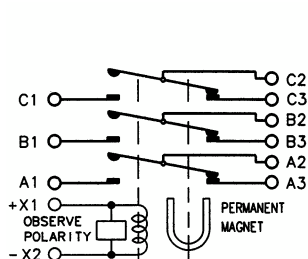


Mounting Style L

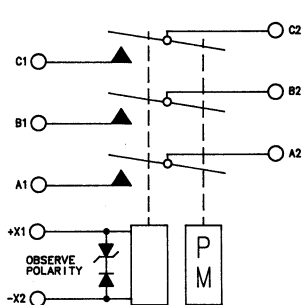
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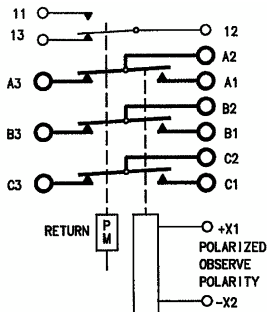
Circuit Configurations (Consult factory for other available circuit configurations)



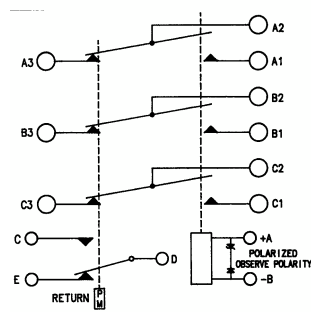
Circuit Configuration 1



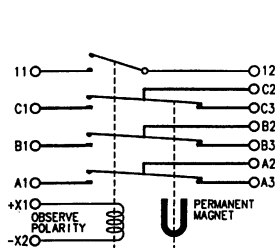
Circuit Configuration 2



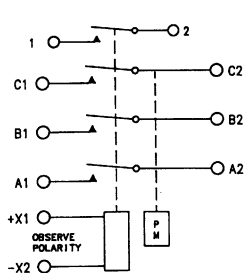
Circuit Configuration 3



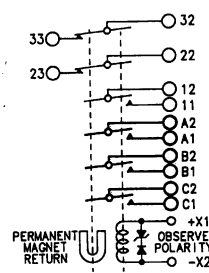
Circuit Configuration 4



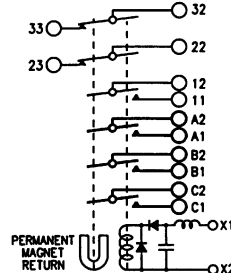
Circuit Configuration 5



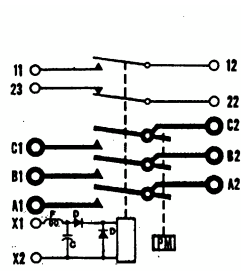
Circuit Configuration 6



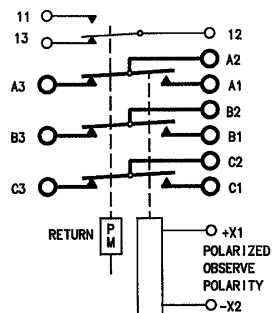
Circuit Configuration 7



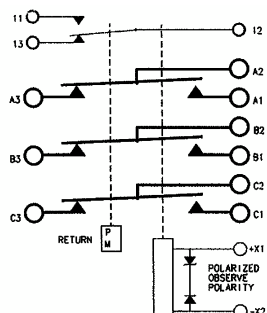
Circuit Configuration 8



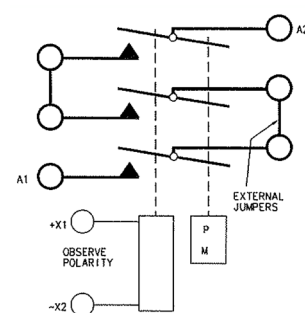
Circuit Configuration 9



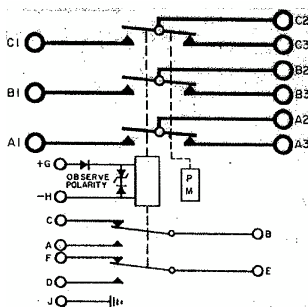
Circuit Configuration 10



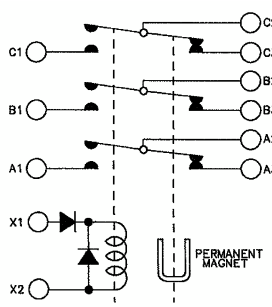
Circuit Configuration 11



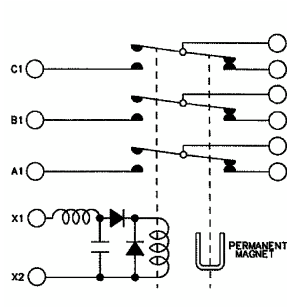
Circuit Configuration 12



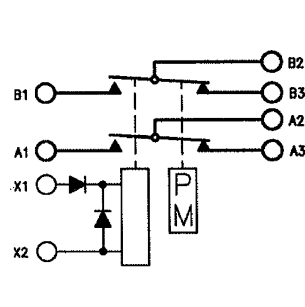
Circuit Configuration 13



Circuit Configuration 14



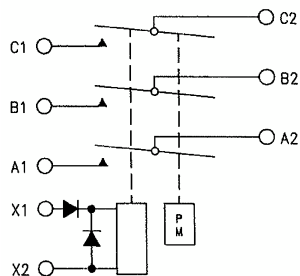
Circuit Configuration 15



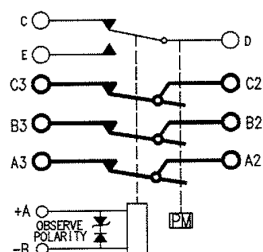
Circuit Configuration 16

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## D7, DH7, DHR7, DR7 Series, Rated up to 50 Amps, 115/200 VAC, 400 Hz (Continued)



Circuit Configuration 17



Circuit Configuration 18

HARTMAN Part Number	Construction Type	Mounting Style	Coil Type	Circuit Config.	TE Part Number
D-7BS	Gasket/Vented	A	C	1	1616036-1
D-7M	Gasket/Vented	B	C	2	1616016-2
D-7GR-2	Gasket/Vented	C	B	3	1616036-3
D-7GRZ	Gasket/Vented	D	C	4	1616036-5
DH-7BB	Hermetically Sealed	A	B	5	1616037-7
DH-7N	Hermetically Sealed	B	B	6	1616017-9
DH-7ZG-1	Hermetically Sealed	C	C	7	1-1616017-1
DHR-7ZG	Hermetically Sealed	C	A	8	1-1616017-2
DR-7VC	Hermetically Sealed	B	A	9	1616018-1
D-7GR	Gasket/Vented	E	B	10	1616036-2
D-7GR-3	Gasket/Vented	F	B	11	1616036-4
D-7MA	Gasket/Vented	G	B	12	1616016-3
D-7MM	Gasket/Vented	H	C	18	1616016-4
DH-7GR	Hermetically Sealed	E	C	11	1616037-9
DH-7ZAB	Hermetically Sealed	H	D	13	1-1616037-1
DHR-7B	Hermetically Sealed	I	E	14	1-1616037-6
DHR-7BE	Hermetically Sealed	J	A	15	1-1616037-7
DHR-7K	Hermetically Sealed	K	E	16	1616522-2
DHR-7M	Hermetically Sealed	L	E	17	1616518-2

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