AC Contactors ARTMAN Power Switching

D-31, DH-31, and DHL-31 Series, Rated up to 120 Amps, 115/200 VAC, 400 Hz

Product Facts

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



Performance Data

Electrical Characteristics

Contact Arrangement – 3PDT, Center Off

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

Resistive Rating — 120 Amps

Inductive Rating — 120 Amps Motor Rating — 80 Amps

Rupture Rating — 1,000 Amps

1,000 Vrms

Weight - 2.60 lbs

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 Strenath — All Circuits to Ground — 1,500 Vrms Circuit to Circuit — 1.500 Vrms Coil to Ground and Aux. Contacts -

Altitude –

D-31 — 50,000 ft DH-31. DHL-31 --- 70.000 ft Coil Type A — N/A Coil Type B — 100 Ohms Coil Type C — 132 Ohms

Coil Characteristics

Continuous with suppression

Coil Type A and C — 18 Vdc

Coil Type B — 15 Vdc

Coil Type B — 2 to 7 Vdc

Continuous (Type A, See diagram below)

(Type B or Type C, See diagram below)

Operating Voltage, Nom. — 28 Vdc

Pickup Voltage @ 25°C, Max. —

Dropout Voltage @ 25°C, Max. -

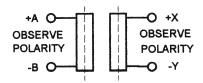
Coil Resistance ±20% @ 25°C —

Coil Type A and C — 1.5 to 7 Vdc

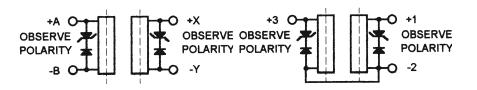
Duty Cycle —

Coil Current @ 25°C, Max. — .350 Amp

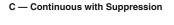
Coil Type

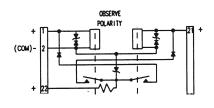


A — Continuous



B — Continuous with Suppression



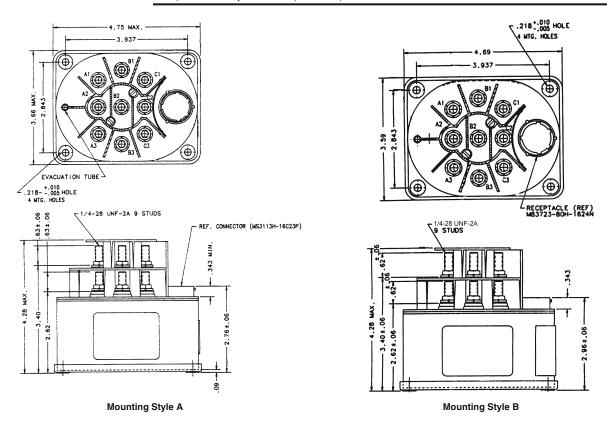


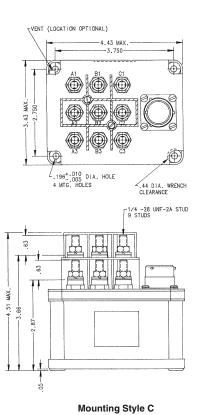
D — Latching





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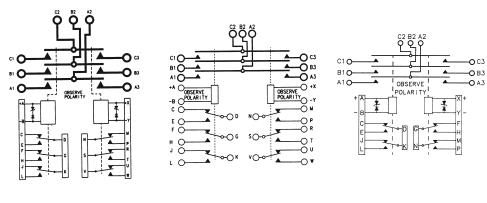
For factory-direct application assistance, phone 419-521-9500 or fax 419-526-2749.

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AC HA

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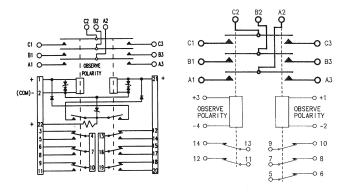
Circuit Configurations (Consult factory for other available circuit configurations)





Circuit Configuration 2

Circuit Configuration 3



Circuit Configuration 4

Circuit Configuration 4

HARTMAN Part Number	Construction Type	Mounting Style	Coil Type	Circuit Config.	TE Part Number
D-31DB	Gasket/Vented	Α	В	1	1616049-2
D-31TH	Gasket/Vented	С	Α	5	1616524-5
DH-31A	Hermetically Sealed	Α	Α	2	1616050-4
DH-31DA	Hermetically Sealed	Α	В	3	1616050-5
DH-31DAA	Hermetically Sealed	Α	Α	3	1616050-6
DHL-31B	Hermetically Sealed	В	D	4	1616050-8

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