

K500 Series, Rated up to 500 Amps, 28 Vdc



Performance Data

Electrical Characteristics

Main Contacts —

Contact Arrangement —

SPST NO, Double Break

Rated Operating Voltage —

28 Vdc

Resistive Rating — 500 Amps

Rupture Rating — 5,000 Amps

Auxiliary Contacts —

Aux. Contact Arrangement —

3 SPDT

Rated Operating Voltage — 28 Vdc

Resistive Rating — 5 Amps

Lamp Rating — 1 Amps

Low Level — 1 mA @ 28 Vdc

General Characteristics

Temperature Range —

-55°C to +85°C

Operating Cycles (Life) at Rated

Resistive Load — 50,000 cycles

Operating Cycles (Life)

Mechanical — 100,000 cycles

Altitude — 50,000 ft.

Weight, Max. — .88 lbs

Operate Time @ 18 Vdc & 85°C,

Max. — 45 msec

Dropout Time @ 32 Vdc, Max. —

25 msec

Coil Characteristics

Duty Cycle — Continuous, economizing

Operating Voltage, Nom. —

28 Vdc

Pickup Voltage, Max. — 18 Vdc

Dropout Voltage — 1 to 7 Vdc

Inrush — 5 Amps

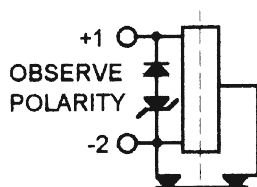
Hold @ 32 Vdc & -55°C —

0.272 mA max.

Product Facts

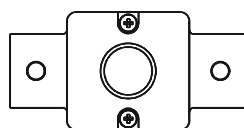
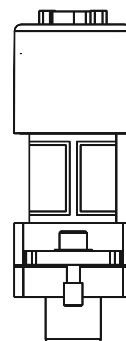
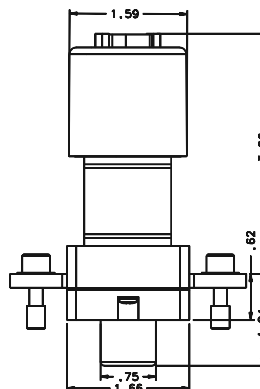
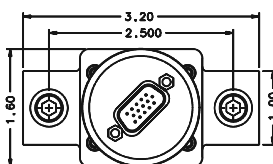
- SPST NO, Double break
- Buss bar or chassis mount designs
- Gasket sealed
- Multiple auxiliary contact choices
- Meets many requirements of MIL-PRF-6106

Coil Type

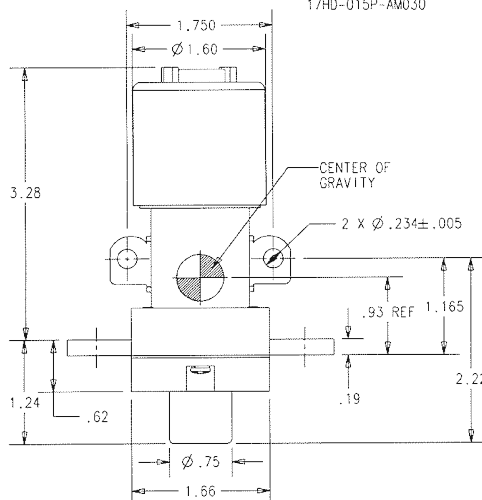
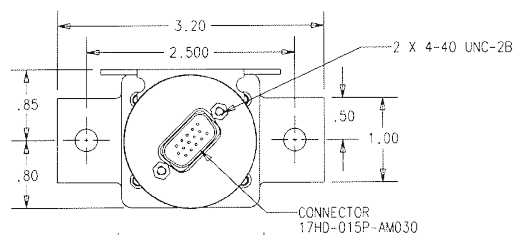


A — Economized with Suppression

K500 Series, Rated up to 500 Amps, 28 Vdc (Continued)



Mounting Style A

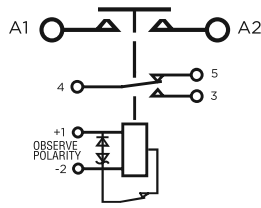


Mounting Style B

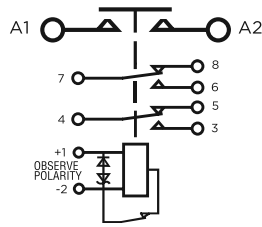
For factory-direct application assistance, phone 419-521-9500 or fax 419-526-2749.

K500 Series, Rated up to 500 Amps, 28 Vdc (Continued)

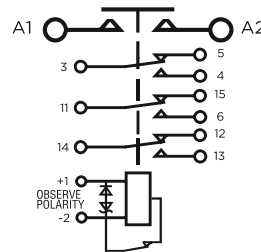
Circuit Configurations (Consult TE for other available circuit configurations)



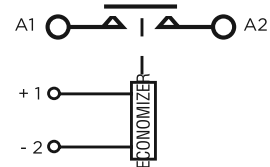
Circuit Configuration 1



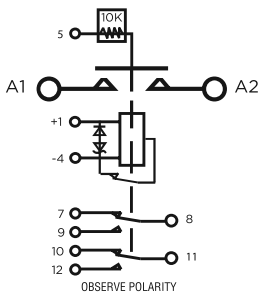
Circuit Configuration 2



Circuit Configuration 3



Circuit Configuration 4



Circuit Configuration 5

HARTMAN Part No.	Mounting Style	Coil Type	Circuit Configuration	TE Part No.
K500B2C	Bus Bar Mount	Economized with Suppression	1	7-1616927-0
K500A2C	Chassis Mount		1	4-1616951-4
K500B3C	Bus Bar Mount		2	7-1616970-0
K500A3C	Chassis Mount		2	6-1616970-9
K500B7C01	Bus Bar Mount		3	9-1616965-0
K500A7C01	Chassis Mount		3	2-1616970-8
K500A1C	Chassis Mount		4	1-1616992-7
K500B1C	Bus Bar Mount		4	2-1616992-8
K500B3C02	Bus Bar Mount		5	7-2252003-3

K Series, Rated up to 500 Amps, 28 Vdc — Time Delay

Product Facts

- SPST NO, Double break
- Delay on operator or release
- Chassis Mount (bus bar mount available)
- Gasket sealed
- Meets many requirements of MIL-PRF-6106

Performance Data

Electrical Characteristics

Contact Arrangement — SPST NO, Double Break

Rated Operating Voltage — 28 VDC

Resistive Rating — 500A

Rupture Rating — 5000A

Delay on operate or release — See note 1

General Characteristics

Temperature Range — -55°C to +85°C

Minimum Electrical Cycles — 50,000

Minimum Mechanical Cycles — 100,000 @ 125A

Dielectric Strength — 1000 Vrms

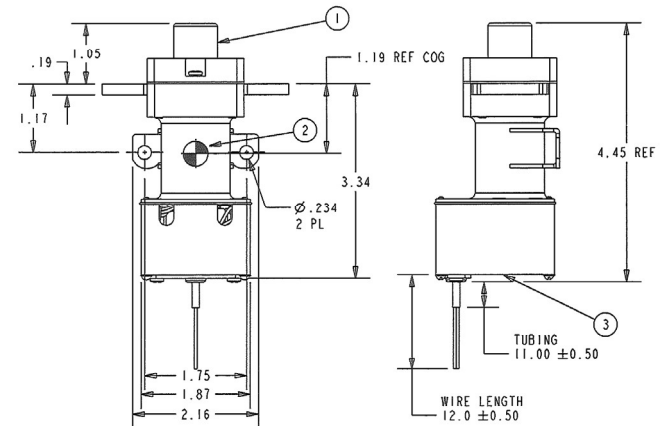
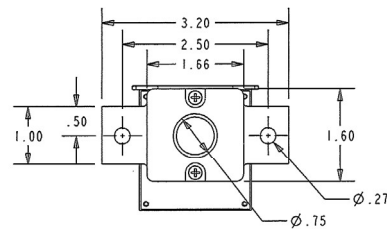
Altitude — 50,000 ft

Weight, Max. — 1.0 lbs

Duty Cycle — Intermittent or Continuous (See note 2)

Operating Voltage Range — 21 - 32 Vdc

Drop Out Voltage — 1 to 7 Vdc



NOTES

1. Delay can be tailored to meet customer need. Consult Factory.
2. Intermittent duty coil is recommended for starting applications where significant control voltage sags are possible. Consult factory to specify correct coil duty for your application.

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

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HARTMAN Power Switching DC Contactors

Mouser Electronics

Authorized Distributor

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[7-2252003-3](#)