

K400 Series, Rated up to 400 Amps, 28 Vdc



Product Facts

- SPST NO, Double break
- Buss bar or chassis mount design
- Gasket sealed
- Auxiliary contacts available
- Meets many requirements of MIL-PRF-6106

Coil Type

Performance Data

Electrical Characteristics

Contact Arrangement —

SPST NO, Double Break

Rated Operating Voltage —

28 Vdc

Resistive Rating — 400 Amps

Overload Rating — 3,200 Amps

Rupture Rating — 4,000 Amps

General Characteristics

Temperature Range —

-40°C to +85°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 — 1,250 Vrms

Circuit to Circuit — 1,250 Vrms

Coil to Ground and Aux. Contacts — 1,000 Vrms

Altitude, Max. — 50,000 ft.

Weight, Max. — .59 -.75 lbs

Coil Characteristics

Duty Cycle —

Economized with suppression (Type A, See diagram below), Continuous (Type B, See diagram below), Intermittent (Type C, See diagram below)

Operating Voltage, Nom. —

28 Vdc

Pickup Voltage @ 250°C, Max. —

18 Vdc - Economized and continuous duty coil

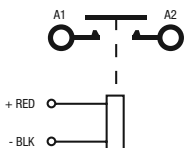
12 Vdc - Intermittent duty coil

Dropout Voltage, Max. —

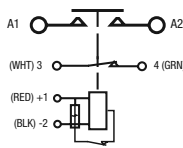
7 Vdc - Economized and continuous duty

5 Vdc - Intermittent duty coil

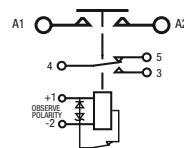
Circuit Configurations (Consult TE for other available circuit configurations)



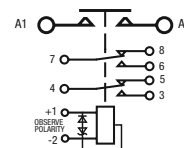
Circuit Configuration 1



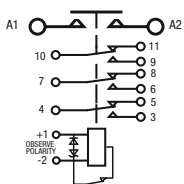
Circuit Configuration 2



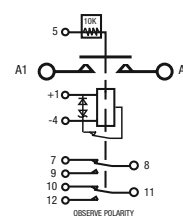
Circuit Configuration 3



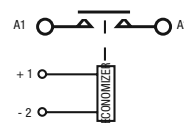
Circuit Configuration 4



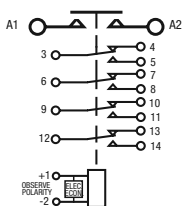
Circuit Configuration 5



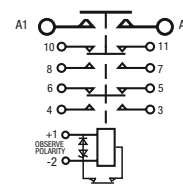
Circuit Configuration 6



Circuit Configuration 7



Circuit Configuration 8

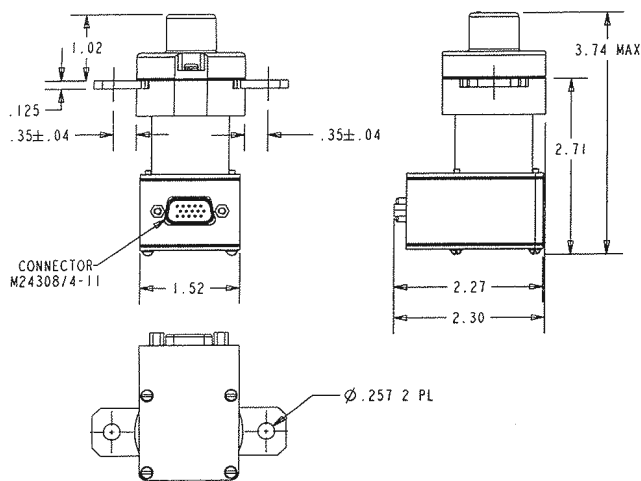
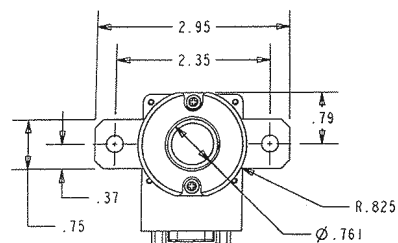


Circuit Configuration 9

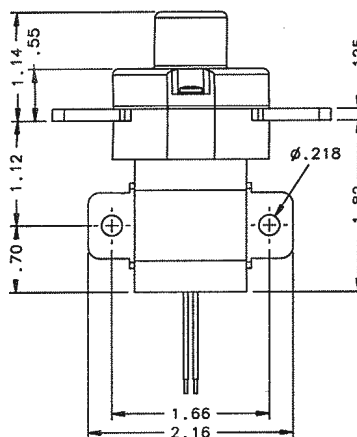
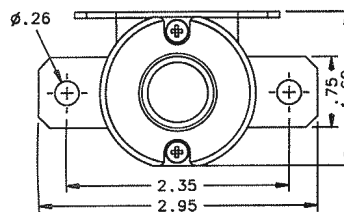
HARTMAN Part No.	Mounting Style	Coil Type	Circuit Configuration	TE Part No.
K4001A3C	Chassis Mount	Economized with Suppression	4	6-1616968-5
K4001B3C	Bus Bar Mount		4	4-1616959-0
K400A1F	Chassis Mount	Continuous	1	6-1616945-7
K400A4C1		Economized with Suppression	2	6-1616965-1
K400B1F	Bus Bar Mount	Continuous	1	2-1616921-3
K400B3C05		Economized with Suppression	6	7-1616941-3
K4001B7C			5	4-1616959-8
K4001A7C	Chassis Mount	Economized with Suppression	5	6-1616970-7
K4001B2C	Bus Bar Mount		3	6-1616970-8
K4001A2C	Chassis Mount		3	6-1616970-6
K4001A1C1			7	6-1616998-5
K4001B1C1			7	6-1616998-6
K4001B8C2	Bus Bar Mount		8	5-1616986-8
K4001B8C3			8	5-1616986-9
K4001B8C4			8	9-1616986-6
K4001B5C2			9	8-1616982-7

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

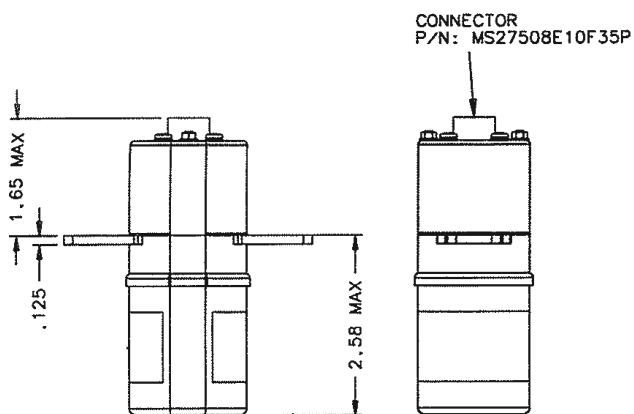
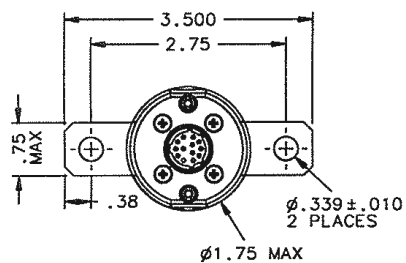
K400 Series, Rated up to 400 Amps, 28 Vdc (Continued)



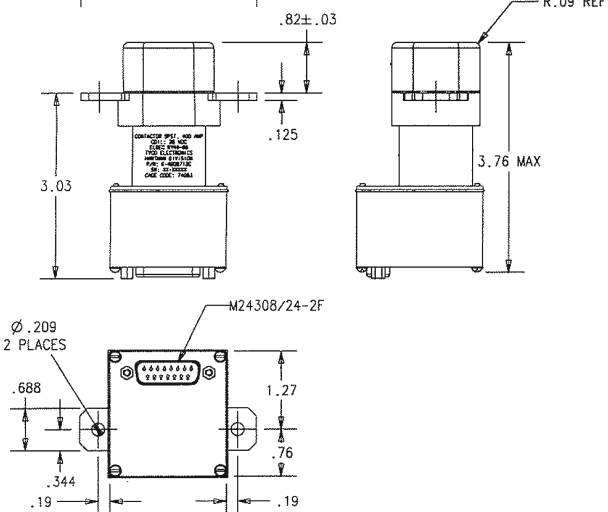
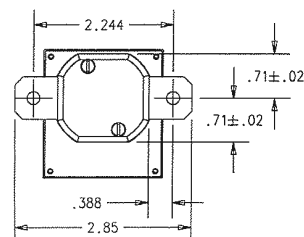
Mounting Style A



Mounting Style B



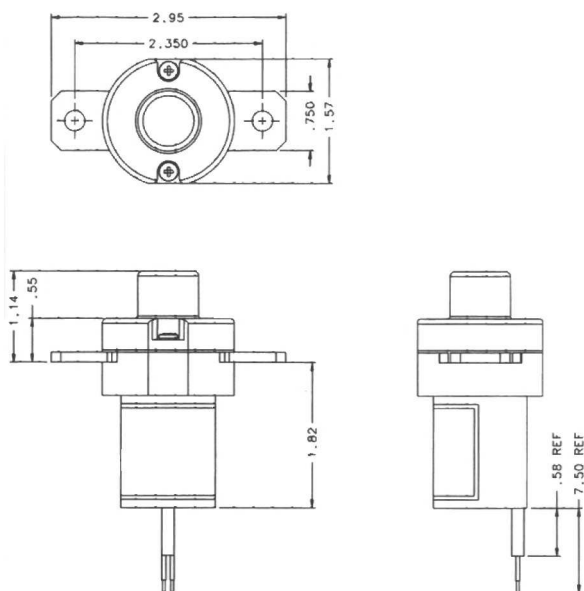
Mounting Style C



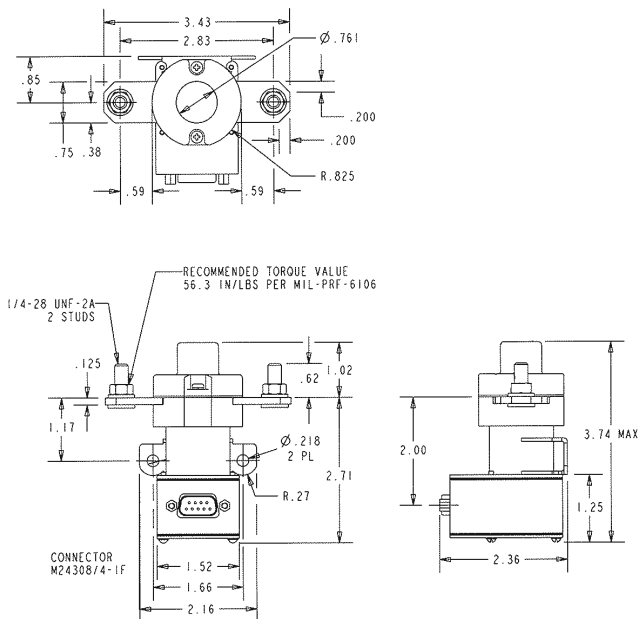
Mounting Style D

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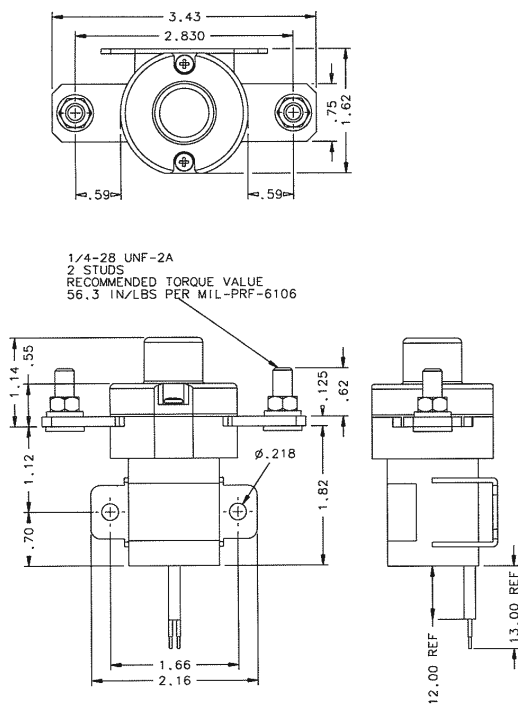
K400 Series, Rated up to 400 Amps, 28 Vdc (Continued)



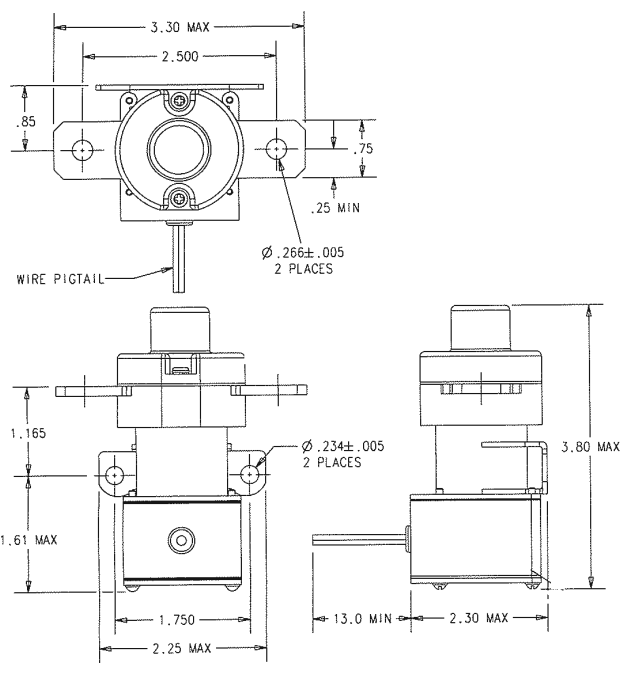
Mounting Style E



Mounting Style F



Mounting Style G

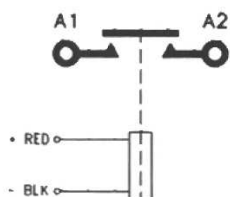


Mounting Style K

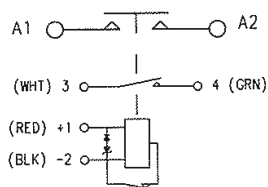
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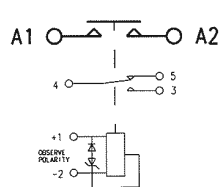
Circuit Configurations (Consult factory for other available circuit configurations)



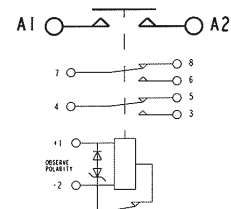
Circuit Configuration 1



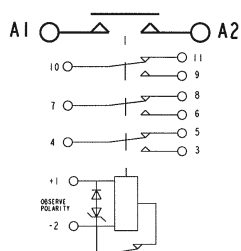
Circuit Configuration 2



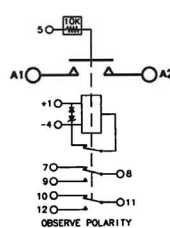
Circuit Configuration 3



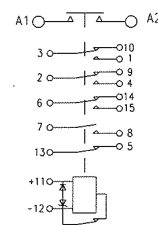
Circuit Configuration 4



Circuit Configuration 5



Circuit Configuration 6



Circuit Configuration 7

Cross Reference

Main Current Rating	AC/DC	Rating	Main Contact Config.	Operating Mode	Aux. Contact Config.	Coil Voltage	Seal Type	Duty Cycle	Coil Trans. Voltage (VDC)	HARTMAN Part No.	TE Part No.
200	DC	28	SPST NO	Side Stable	2PDT	28	Gasket	Cont. Econ.	42	K200A1C	5-1616970-9
		28	SPST NO	Side Stable	2PDT	28	Gasket	Cont. Econ.	42	K200B3C02	4-1616968-7
		28	SPST NO	Side Stable	2PDT	28	Gasket	Cont. Econ.	42	K200B1C	6-1616970-0
		28	SPST NO	Side Stable	2PDT	28	Gasket	Cont. Econ.	42	K200A3C	8-1616977-1
400	DC	28	SPST NO	Side Stable	2PDT	28	Gasket	Cont. Econ.	42	K4001A3C	6-1616968-5
		28	SPST NO	Side Stable	2PDT	28	Gasket	Cont. Econ.	42	K4001B3C	4-1616959-0
		28	SPST NO	Side Stable	1PST NO	28	Gasket	Cont. Econ.	42	K400A4C1	6-1616965-1
		28	SPST NO	Side Stable	None	28	Gasket	Intermittent	—	K400B1D	8-1616968-4
		28	SPST NO	Side Stable	None	28	Gasket	Continuous	—	K400B1F	2-1616921-3
		28	SPST NO	Side Stable	2PDT	28	Gasket	Cont. Econ.	42	K400B3C05	7-1616941-3
		28	SPST	Side Stable	3PDT	28	Gasket	Cont. Econ.	42	K4001B7C	4-1616959-8
		28	SPST	Side Stable	3PDT	28	Gasket	Cont. Econ.	42	K4001A7C	6-1616970-7
		28	SPST	Side Stable	1PDT	28	Gasket	Cont. Econ.	42	K4001B2C	6-1616970-8
		28	SPST	Side Stable	1PDT	28	Gasket	Cont. Econ.	42	K4001A2C	6-1616970-6
		28	SPST	Side Stable	None	28	Gasket	Continuous	—	K400A1F1	4-1616964-5
		28	SPST NO	Side Stable	3PDT, 1PST NO, 1PST NC	28	Gasket	Cont. Econ.	42	K400B712C	5-1616946-6
		28	SPST NO	Side Stable	—	28	Gasket	Cont. Econ.	42	K4001A1C1	6-1616988-2
		28	SPST NO	Side Stable	1PDT	28	Gasket	Cont. Econ.	42	K500B2C	7-1616927-0
500	DC	28	SPST NO	Side Stable	2PDT	28	Gasket	Cont. Econ.	42	K500B3C	7-1616970-0
		28	SPST NO	Side Stable	2PDT	28	Gasket	Cont. Econ.	42	K500A3C	6-1616970-9
		28	SPST NO	Side Stable	1PDT	28	Gasket	Cont. Econ.	42	K500A2C	4-1616951-4
		28	SPST NO	Side Stable	3PDT	28	Gasket	Cont. Econ.	42	K500A7C01	2-1616970-8
		28	SPST NO	Side Stable	3PDT	28	Gasket	Cont. Econ.	42	K500B7C01	9-1616965-0
		28	SPST NO	Side Stable	—	28	Gasket	Cont. Econ.	42	K500A1C	1-1616992-7
		28	SPST NO	Side Stable	—	28	Gasket	Continuous	—	K1000A1F03	4-1616966-1
		28	SPST NO	Side Stable	—	28	Gasket	Continuous	—	K1000A1F03	4-1616966-1