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Double Pole, Electrically Held, 10 Amps and Less

07

Two Pole 10 Amp High Performance Relay

Qualified to MIL-R-5757/23 MS 27245 & MS 27247

Product Facts

- **Hermetically sealed**
- **Up to 10 amps switching**
- **High shock & vibration ratings**
- **Optional terminals & mounting styles**
- **DC, AC & diode-suppressed coils**



Electrical Characteristics

Contact Arrangement — 2 Form C (DPDT)

Contact Material — Stationary — Silver cadmium oxide
Moveable — Silver cadmium oxide

Contact Resistance — Before Life — 10 milliohms max.
After life — 20 milliohms max.
(Measured at 10 A @ 28 Vdc)

Mechanical Life Expectancy — 1 million operations

Coil Voltage — 6 to 120 Vdc, 115 Vac

Coil Power — 4.3 watts max. @ 25°C

Duty Cycle — Continuous

Pick-up Voltage — Approximately 50% of nominal coil voltage

Pick-up Sensitivity — 565 mW

Operating Characteristics

Operate Time — Std — 10 ms max.
QPL — 15 ms max.
AC Coil — 15 ms max.

Release Time — Std — 10 ms max.
QPL — 15 ms max.
AC Coil — 20 ms max.

Contact Bounce — Std — 5 ms max. (N.O. and N.C.)
QPL — 2 ms max. (N.O.)
QPL — 5 ms max. (N.C.)

Dielectric Withstanding Voltage — Between Open Contacts — 500 Vrms 60 Hz
Between Adjacent Contacts — 1000 Vrms 60 Hz
Between Contacts and Coil — 1000 Vrms 60 Hz

Insulation Resistance — 1,000 megohms min. @ 500 Vdc

Environmental Characteristics

Temperature Range — -65°C TO +125°C

Weight — 1.3 oz (37 gms) max.

Vibration Resistance — Standard — 30 G's, 10 to 2,000 Hz
QPL — 20 G's, 10 to 2,000 Hz

Shock Resistance — 100 G's, 6 ±1 ms

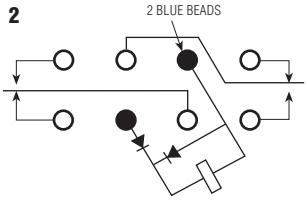
QPL Approval — MIL-R-5757/23
MS 27245
MS 27247

Contact Ratings

Contact Load	Type	Operations Min.
10 A @ 28 Vdc	Resistive	100,000
3 A @ 115 V, 60 Hz	Resistive	50,000
5 A @ 115 V, 400 Hz	Resistive	50,000
6 A @ 28 Vdc	Inductive	50,000
2 A @ 115 V, 60 Hz	Inductive	50,000
2.5 A @ 115 V, 400 Hz	Inductive	50,000
1 A @ 28 Vdc	Lamp	50,000
0.5 A @ 115 V, 60 Hz	Lamp	50,000
0.8 A @ 115 V, 400 Hz	Lamp	50,000
3 A @ 28 Vdc	Motor	50,000
1.5 A @ 115 V, 60 Hz	Motor	50,000
3 A @ 115 V, 400 Hz	Motor	50,000

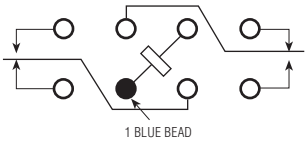
*All ratings grounded case

2



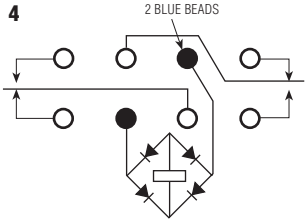
Terminal View

3



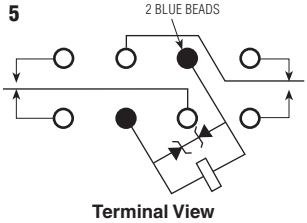
Terminal View

4



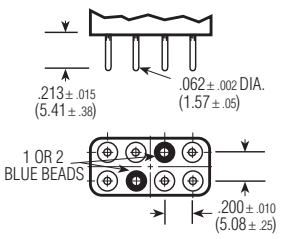
Terminal View

5

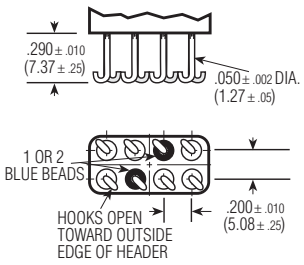


Terminal View

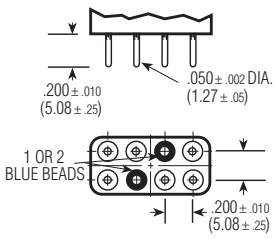
1: GOLD PLATED



2: SOLDER FINISH



4: GOLD PLATED
5: SOLDER FINISH



Terminals

Catalog 5-1773450-5
Revised 3-13

www.te.com

Dimensions are shown for reference purposes only. Specifications subject to change.

Dimensions are in millimeters unless otherwise specified.

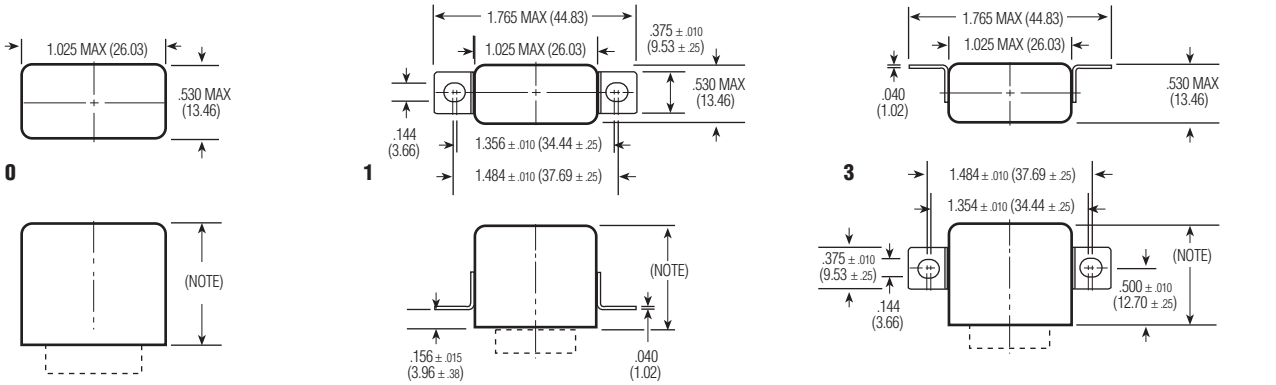
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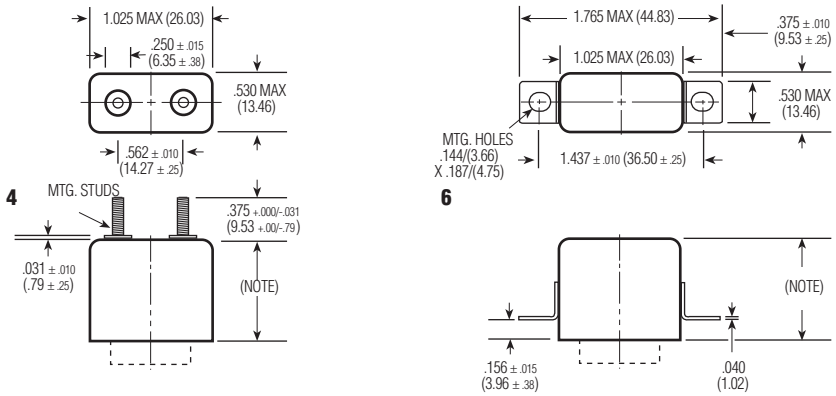
Double Pole, Electrically Held, 10 Amps and Less (Continued)

Coil Data

Nom. Coil Voltage (Vdc)	Coil Resistance in Ohms ±10% @ 25°C	Pickup Voltage Vdc (Max.) @ 25°C	Pickup Voltage Vdc (Max.) @ 125°C	Drop-out Voltage Vdc (Min.) @ 25°C	Drop-out Voltage Vdc (Min.) @ -65°C	Nom. Coil Power (mW) @ 25°C	Max. Coil Voltage	Coil Desig.	Environmental
6.0	19	3.6	4.5	0.4	0.25	1.89	9.0	AA	**Temperature** -55˚C to +85˚C
12.0	75	7.2	9.0	0.9	0.5	1.92	16.0	AB	
26.5	300	14.4	18.0	1.8	1.0	2.34	32.0	AC	**Vibration** 20G's, 10 to 2,000Hz
48.0	1,200	29.0	36.0	3.6	2.0	1.92	52.0	AD	
120.0	7,600	72.0	90.0	9.0	5.0	1.89	122.0	AE	**Shock** 50G's, 11ms
115 Vac 400 Hz	1,200	72.0	90.0	10.0	5.0	n/a	n/a	AR	
115 Vac 60-400 Hz	7,600	72.0	90.0	10.0	5.0	n/a	n/a	AS	
6.0	19	3.3	4.5	0.4	0.25	1.89	9.0	BA	**Temperature** -65˚C to +125˚C
12.0	75	6.5	9.0	0.9	0.5	1.92	16.0	BB	
26.5	300	13.0	18.0	1.8	1.0	2.34	32.0	BC	**Vibration** 20G's, 10 to 2,000Hz
48.0	1,200	26.0	36.0	3.6	2.0	1.92	52.0	BD	
120.0	7,600	66.0	90.0	9.0	5.0	1.89	122.0	BE	**Shock** 50G's, 11ms
115 Vac 400 Hz	1,200	75.0	90.0	10.0	5.0	n/a	n/a	BR	
115 Vac 60-400 Hz	7,600	75.0	90.0	10.0	5.0	n/a	n/a	BS	
6.0	19	3.7	5.0	0.4	0.25	1.89	9.0	CA	**Temperature** -65˚C to +125˚C
12.0	75	7.4	10.0	0.9	0.5	1.92	16.0	CB	
26.5	300	14.7	20.0	1.8	1.0	2.34	32.0	CC	**Vibration** 30G's, 10 to 2,000Hz
48.0	1,200	29.4	40.0	3.6	2.0	1.92	52.0	CD	
120.0	7,600	74.0	100.0	9.0	5.0	1.89	122.0	CE	**Shock** 100G's, 6ms
115 Vac 400 Hz	1,200	80.0	100.0	10.0	5.0	n/a	n/a	CR	
115 Vac 60-400 Hz	7,600	80.0	100.0	10.0	5.0	n/a	n/a	CS	



Note:
A07 = .895 max (22.73), Schematic 3 only
B07 = 1.010 max (25.66), Schematic 3 only
B07 = 1.234 max (31.35), Schematics 2, 4 & 5 only



07 Mounting Styles

Specifying a Part Number Example:

Type	Ratings	Mountings	Schematic	Terminals	Coil	Testing
B07	B	3	3	2	BC	1

***** The part number example shown on this page is for catalog items. For a list of specific QPL part numbers, please see the index in Section 15.

Catalog 5-1773450-5
Revised 3-13

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Dimensions are in millimeters unless otherwise specified.

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