

FEATURES

- 1A and 1B configurations
- Low power consumption
- UL & CUL approval file No. E179936

CONTACT DATA

Contact form	1A 1B
Contact resistance (Initial)	Max. 150mΩ
Rated Load	0.1A / 100VAC 0.5A / 24VDC
Rated carry current	1A
Max. switching voltage	200VDC
Max. switching current	0.5A
Max. switching capacity	10W / 20W
Contact material	Ruthenium

CHARACTERISTICS

Insulation resistance	Min. 100MΩ (at 500VDC)
Dielectric strength	1500VDC, 1 second Magnetic shield: 1000VDC, 1 second
- between coil and contact	
- between contacts	200VDC, 1 second
Surge strength	3000V
Operate time	Max. 1.0 mSec.
Release time	Max. 0.5 mSec.
Vibration resistance	1.5mm D.A. 10-55HZ
Shock resistance	Endurance: 100G, Error: 3G
Ambient temperature	-30°C to +60°C
Life expectancy	6 x 10 ⁵ operations (at rated load) 1 x 10 ⁷ operations
- Electrical	
- Mechanical	

COIL SPECIFICATIONS – 1A

Nominal voltage (VDC)	Pick-up voltage (VDC) (Max.)	Drop-out voltage (VDC) (Min.)	Nominal current (mA ± 10%)	Coil resistance (Ω ± 10%)	Power consumption (mW)	Max. allowable Voltage (VDC)
3	2.1	0.3	47.6	63	Approx 100-280	160%
5	3.5	0.5	20	250		
5	3.5	0.5	10	500		
9	6.3	0.9	18	500		
8	5.6	0.8	11.4	700		
9	6.75	0.9	12.85	700		
12	8.4	1.2	11.4	1050		
24	16.8	2.4	11.5	2080		

- 1B

Nominal voltage (VDC)	Pick-up voltage (VDC) (Max.)	Drop-out voltage (VDC) (Min.)	Nominal current (mA ± 10%)	Coil resistance (Ω ± 10%)	Power consumption(mW)	Max. allowable voltage (VDC)
3	2.25	0.3	47.6	63	Approx. 100 - 800	80 to 120%
6	4.5	0.6	24	250		
9	6.75	0.9	12.9	700		
12	9	1.2	11.4	1050		
24	18	2.4	11.5	1080		

ORDERING INFORMATION

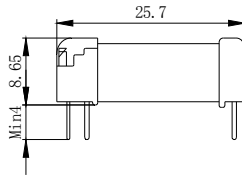
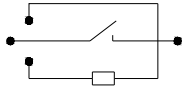
MER - A - 2 05 P M

Model No.	Contact Form	Coil Resistance	Coil Voltage	Sensitivity	Magnetic Shield
MER	A: 1A B: 1B	1: 63Ω; 2: 250Ω; 5: 500Ω; 7: 700Ω; 10: 1050Ω; 20: 2080Ω	3、 5、 6、 9、 12and 24 VDC	Nil: Standard (10W) P: High capacity(20W)	M: With magnetic shield

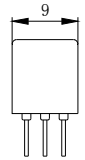
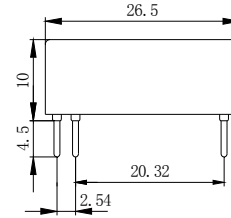
Dimensions (unit mm)

Schematic

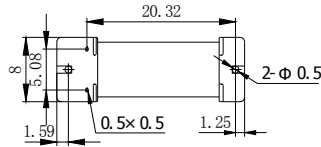
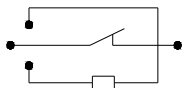
1A



Magnetic shield



1B



Bottom View

