

FEATURES

- Subminiature size 21.4mm x 16.5mm x 15mm (L x W x H)
- Power consumption of standard type 0.45W
and High sensitivity type 0.36W
- High dielectric strength to be 4000V
- UL and CUL approval, File No.: E179936

CONTACT DATA

Contact form	1A, 1B,1C
Contact resistance (Initial)	$\leq 50\text{m}\Omega$
Rated load	10A,12A 125VAC/28VDC
Resistance load (Cos Φ = 1)	6A/300VAC/28VDC 10A 250VAC/28VDC
Motor load	1/3HP 120VAC, 1/3HP 240VAC
Max. switching power	336W 2400VA
Rated carrying current	10A
Max. switching voltage	380VAC/110VDC
Max. switching current	10A
Contact material	AgSnO ₂

CHARACTERISTICS

Insulation resistance	500M Ω at 500VDC
Dielectric strength	
Between coil to contacts	2500V, 50Hz (1 min.) H: 4000V, 50Hz (1 min.)
Between open contacts	1000V, 50Hz (1 min.)
Operate time	Max. 20 ms
Release time	Max. 10 ms
Vibration resistance	10-55Hz at double amplitude 1.5mm
Shock resistance	100m/s ² 11ms
Humidity	85% RH (at 40°C)
Ambient temperature	- 40°C to +85°C
Life expectancy	
- Electrical	1 x 10 ⁵ operations Min.
- Mechanical	1 x 10 ⁷ operations Min.

COIL SPECIFICATIONS – 1. Standard

Nominal voltage (VDC)	Pick-up voltage VDC (Max.)	Drop-out voltage VDC (Min.)	Nominal current (mA \pm 10%)	Coil resistance (Ω \pm 10%)	Power consumption (W)
3	2.25	0.3	150	20	0.45
5	3.75	0.5	90	56	0.45
6	4.5	0.6	75	80	0.45
9	6.75	0.9	50	180	0.45
12	9	1.2	37.5	320	0.45
18	13.5	1.8	25	720	0.45
24	18	2.4	18.8	1280	0.45
48	36	4.8	12.7	3800	0.61

2. Sensitive

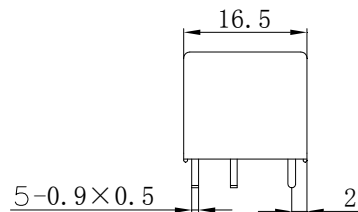
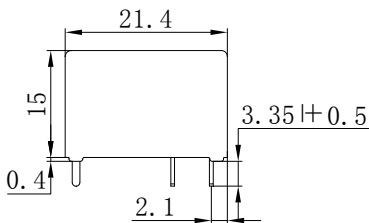
Nominal voltage (VDC)	Pick-up voltage VDC (Max.)	Drop-out voltage VDC (Min.)	Nominal current (mA±10%)	Coil resistance (Ω±10%)	Power consumption (W)
3	2.25	0.3	111.1	27	0.36
5	3.75	0.5	62.5	80	0.36
6	4.5	0.6	54.5	110	0.36
9	6.75	0.9	36	250	0.36
12	9	1.2	30	400	0.36
18	13.5	1.8	20	900	0.36
24	18	2.4	15	1600	0.36

ORDERING INFORMATION

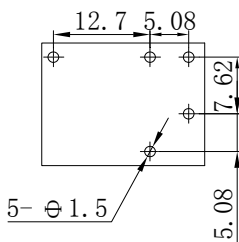
ME-14 - 12 C S F B H

Model No.	Coil Voltage	Contact Form	Protection	Insulation	Coil Sensitivity	Dielectric Strength
ME-14	3,5,6,9,12,18, 24,48VDC	A – SPST (NO) B – SPST(NC) C – SPDT	Nil: Flux free type S: Sealed type	Nil: For Class B insulation F: For Class F insulation	Nil: Standard (0.450W) B: High sensitivity (0.36W)	Nil: 2500V (1 minute) H: 3780V (1 minute)

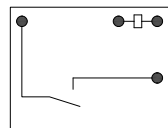
Dimensions (unit:mm)



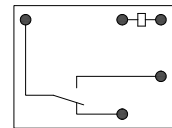
PCB LAYOUT



SCHEMATIC



1A



1C