

FEATURES

- Low height 15.7mm
- 16A switching capabilities
- 1 pole and 2 pole configurations
- 5KV/10mm dielectric strength from coil to contacts
- UL & CUL Approval File No.: E179936,
VDE Approval File No.: 40010237

CONTACT DATA

Contact form	1A, 1B, 1C & 2A, 2B, 2C
Contact resistance	50m Ω (measure at 1A 6VDC)
Resistive load(Cos Φ =1)	
H1,D1,Z1(0.25W)	10A/250VAC
H1,D1,Z1,H2,D2,Z2 -	12A/250VAC 1/2HP 250VAC, 1/3HP 125VAC
H3,D3,Z3 -	16A/250VAC 1HP 250VAC, 1/2HP 125VAC
H3	TV-5, 80A Inrush current
2H,2D,2Z -	8A/250VAC 1/2HP 250VAC, 1/4HP 125VAC
Inductive load (Cos Φ =0.4)	6A/250VAC - H1,D1,Z1,H2,D2,Z2 9A/250VAC - H3,D3,Z3 3A/250VAC - 2H,2D,2Z
Switching capacity	H1,D1,Z1 (0.25W) – 2500VA H1,D1,Z1,H2,D2,Z2 –3000VA H3,D3,Z3 – 4000VA 2H,2D,2Z – 2000VA
Max. switching current	12A - H1,D1,Z1,H2,D2,Z2 16A – H3,D3,Z3 8A - 2H,2D,2Z
Max. switching voltage	250VAC / 440VAC
Contact material	AgSno/AgNi10

CHARACTERISTICS

Insulation resistance	1000M Ω at 500VDC
Dielectric strength	5000VAC, 1 min. between coil to contacts 1000VAC, 1 min. between open contacts 2500VAC, 1 min. between contact sets
Operate time	7 ms (nominal voltage)
Release time	3 ms (nominal voltage)
Vibration resistance	30-150Hz, 10g/5g
Shock resistance	100m/s ²
Humidity	Max. 35% to 85%
Ambient temperature	- 40 $^{\circ}$ C to +85 $^{\circ}$ C 1H3 & 1Z3 : - 40 $^{\circ}$ C to +105 $^{\circ}$ C
Insulation system	Class B, 130 $^{\circ}$ C Class F, 155 $^{\circ}$ C
Life expectancy	
- Electrical	1 \times 10 ⁵ operations (360 ops./hour)
- Mechanical	1 \times 10 ⁷ operations (no load)

COIL SPECIFICATIONS

Nominal voltage (VDC)	Pick-up voltage (VDC)	Drop-out voltage (VDC)	Nominal current (mA±10%)	Coil resistance (Ω±10%)	Power consumption(mW)
5	3.5	0.5	80	62	400
6	4.2	0.6	66.7	90	400
9	6.3	0.9	44.4	202	400
12	8.4	1.2	33.3	360	400
18	12.6	1.8	22.2	800	400
24	16.8	2.4	16.7	1440	400
48	33.6	4.8	8.3	5760 ± 15%	400
60	42	6	6.7	7500 ± 15%	400
110	77	11	4.3	25200 ± 15%	400

COIL SPECIFICATIONS – Sensitive type for 10A contact (1C, 1A)

Nominal voltage (VDC)	Pick-up voltage (VDC)	Drop-out voltage (VDC)	Coil current (at 20°C) (mA)	Coil resistance (Ω±10%)	Power consumption(W)
5	3.75	0.5	50	100	0.25
6	4.5	0.6	41.7	144	0.25
12	9	1.2	20.8	576	0.25
18	13.5	1.8	13.9	1296	0.25
24	18	2.4	10.4	2304	0.25
48	36	4.8	5.4	9216±15%	0.25
60	45	6	4.7	12857±15%	0.25

ORDERING INFORMATION

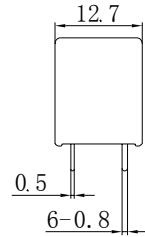
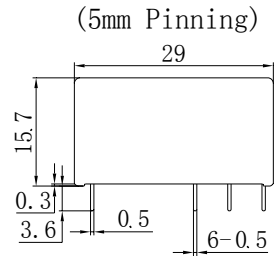
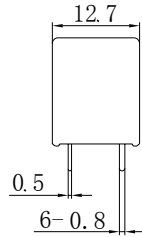
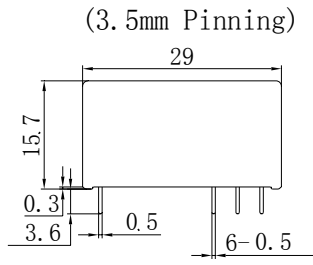
ME-11

ME-11-H - 012 - 1H S 1 T F R

Model No.	Coil Voltage	Contact Form	Protection	Rating (at 250VAC/30VDC)	Contact Material	Insulation	Polarity
ME-11 (standard)	5VDC–110VDC	1H: 1A	Nil: Unsealed	1: 3.5mm 1 pole 12A	Nil: AgNi10	Nil: Class B	Nil:Standard
ME-11-H (sensitive)		1D: 1B 1Z: 1C 2H: 2A 2D: 2B 2Z: 2C	S: Sealed	2: 5mm 1 pole 12A 3: 5mm 1 pole 16A (standard type) 5mm 1 pole 10A (sensitive type) 4: 5mm 2 pole 8A	T : AgSno	F: Class F	Polarity R:Reverse Polarity

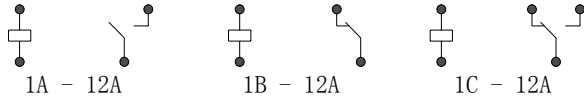
REMARK: Sensitive type is suitable for 1 pole and 10A only.

DIMENSIONS (unit: mm)

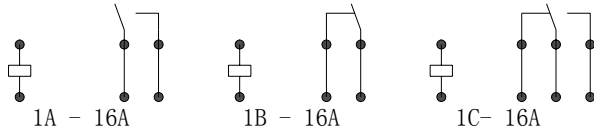


SCHEMATIC

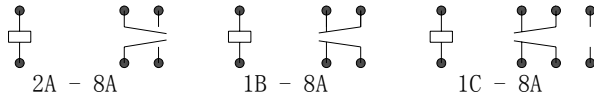
3.5/5mm 1 pole 12A



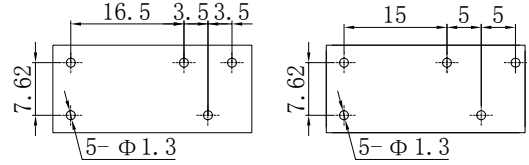
5mm 1 pole 16A(Standad) and 10A(Sensitive)



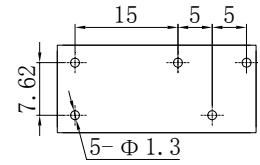
5mm 2 pole 8A



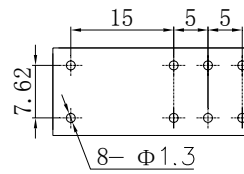
PCB LAYOUT



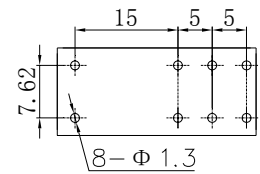
3.5mm 1 Pole 12A



5mm 1 Pole 12A



5mm 1 pole 16A and 10A



5mm 2 Pole 8A