



TITLE

SPECIFICATIONS

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- Various configuration (1A, 1C, 2A, 2C)
- 5A, 10A, 16A switching capability
- Black sealed cover
- 5KV dielectric between coil and contacts
- Creepage distance : 8mm Min for 2 pole
- Class B and F available



1. TYPE: TP RELAY (P/C Board type)

2. COIL

Nominal Voltage (VDC)	3	5	6	9	12	24	48	100	0.24W
Coil Resistance (Ω±10%)	38	104	150	338	600	2400	9600		
Rated Current (mA)	80	48	40	26.7	20	10	5		
Max Operate Voltage (VDC)	2.4	4	4.8	7.2	9.6	19.2	38.4		
Min Release Voltage (VDC)	0.15	0.25	0.3	0.45	0.6	1.2	2.4		
Coil Resistance (Ω±10%)	17	46	67	150	270	1050	4250	22400	0.54W
Rated Current (mA)	180	108	90	60	45	22.5	11.3	5	
Max Operate Voltage (VDC)	2.4	4	4.8	7.2	9.6	19.2	38.4	88	
Min Release Voltage (VDC)	0.15	0.25	0.3	0.45	0.6	1.2	2.4	5.5	
Coil Resistance (Ω±10%)	13	35	50	110	200	800	3200	16800	0.72W
Rated Current (mA)	240	144	120	80	60	30	15	6.5	
Max Operate Voltage (VDC)	2.4	4	4.8	7.2	9.6	19.2	38.4	88	
Min Release Voltage (VDC)	0.15	0.25	0.3	0.45	0.6	1.2	2.4	5.5	
Max Applicable Voltage	130% of nominal voltage at 70℃, 170% of nominal voltage at 23℃								

At 20℃



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3. CONTACTS

3-1) Contact arrangement : 1 Form A, 1 Form C
2 Form A, 2 Form C

3-2) Contact Material : AgSnO

3-3) Contact resistance (Initial) : Max. 100mΩ at 6VDC 1A

3-4) Contact ratings (Resistive load) :

M (2 Form A, 2 Form C) : 5A 240VAC, 5A 30VDC

H (1 Form A, 1 Form C) : 10A 240VAC, 10A 30VDC

E (1 Form A, 1 Form C) : 16A 240VAC, 16A 30VDC

3-5) Max. switching voltage : 250VAC/30VDC

3-6) Max. switching current :

M (2 Form A, 2 Form C) : 8A

H (1 Form A, 1 Form C) : 12A

E (1 Form A, 1 Form C) : 20A

3-7) Max. switching power :

M (2 Form A, 2 Form C) : 1250VA/240W

H (1 Form A, 1 Form C) : 2500VA/300W

E (1 Form A, 1 Form C) : 4800VA/480W

3-8) Minimum load : 100mA 5VDC

4. CHARACTERISTICS

4-1) Operate time (Excluding bounce) : Max. 20msec

4-2) Release time (Excluding bounce) : Max. 10msec

4-3) Insulation resistance (Initial) : Min. 100MΩ (at 500VDC)

4-4) Dielectric strength

⊙ Between open contacts : AC 1,000 Volt / one minute

⊙ Between coil and contacts : AC 5,000Volt / one minute

4-5) Vibration resistance : 10 to 55Hz double amplitude of 1.5mm



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4-6) Shock resistance

⊙ Functional : Min. 10G

⊙ Destructive : Min. 100G

4-7) Ambient temperature : -40 to + 70℃

4-8) Humidity : 40 to 85% RH

4-9) Life expectancy

⊙ Mechanical : Min. 10,000,000 operations

⊙ Electrical : Min. 100,000 operations (at 30 operations/minute)

4-10) Max. switching frequency

⊙ Mechanical : 18,000 operations / hour

⊙ Electrical : 1,800 operations / hour

4-11) Weight : Approx. 14g

4-12) Outline dimension (L x W x H) : 29.5 x 13 x 20.6

4-13) Safety standard : cUL

5. ORDERING INFORMATION

EX.) TP 22 - M 12 H

Model	Contact Configuration	Contact Rating	Coil Voltage	Coil Power
TP	1: 1 Form C	H : 10A	3, 5, 6, 9, 12, 24, 48, 100 VDC	Nil : 0.72W H : 0.54W M: 0.24W
	11: 1 Form A	E : 16A		
	2 : 2 Form C 22: 2 Form A	M : 5A		

** 100 voltage is only for 2 from A & 2 form C

** H (10A) type cannot available 0.24W on coil power.

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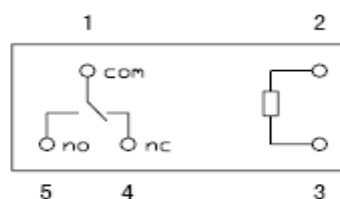
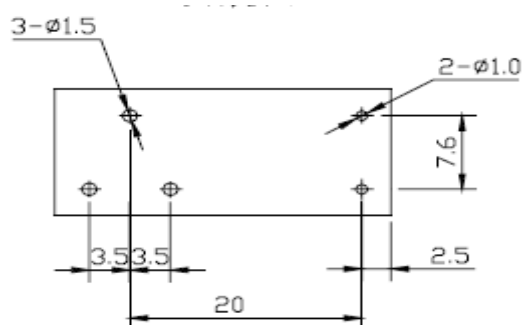
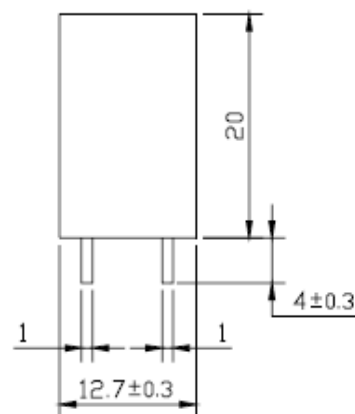
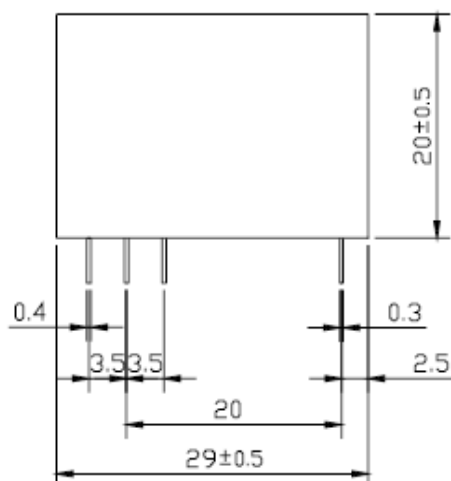


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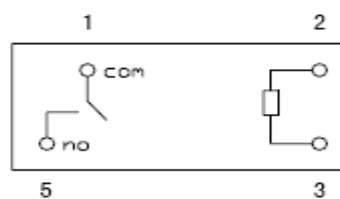
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1) H (10A)



Form C



Form A



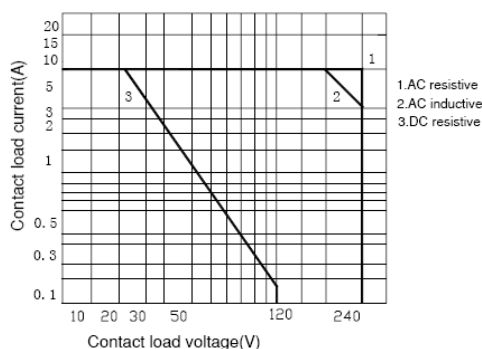
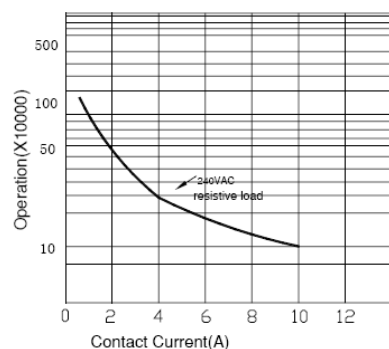
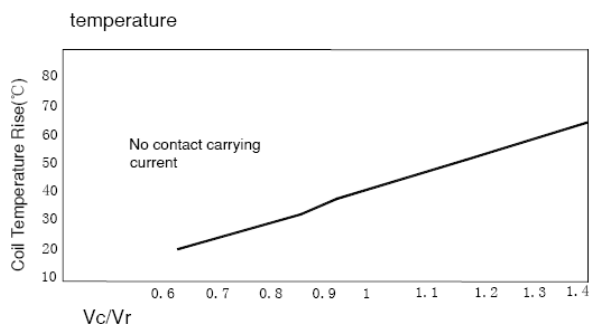
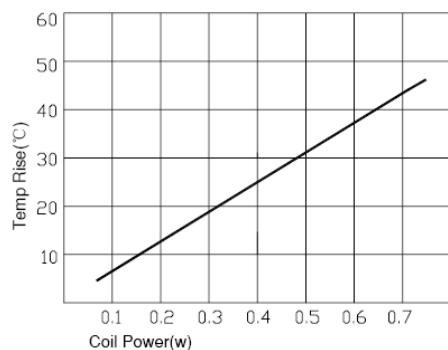
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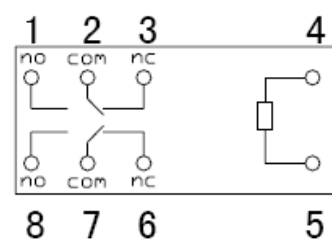
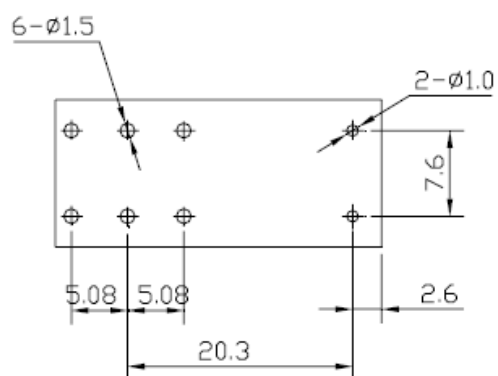
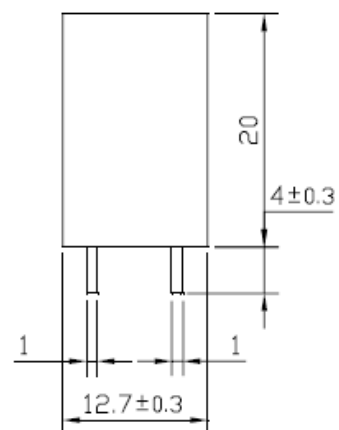
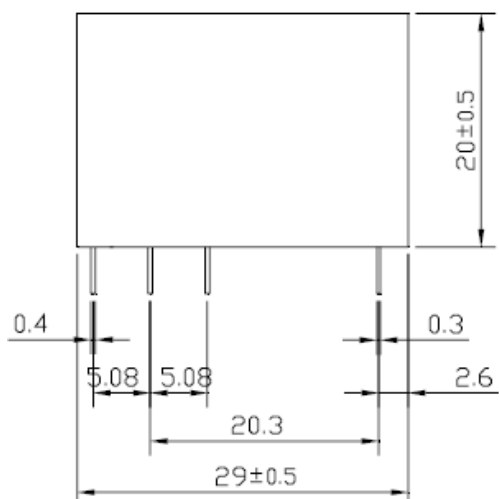


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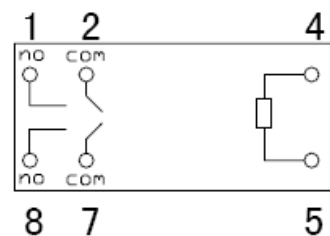
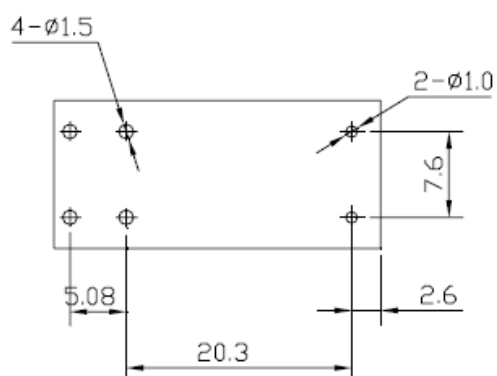
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1) E (16A)



Form C



Form A



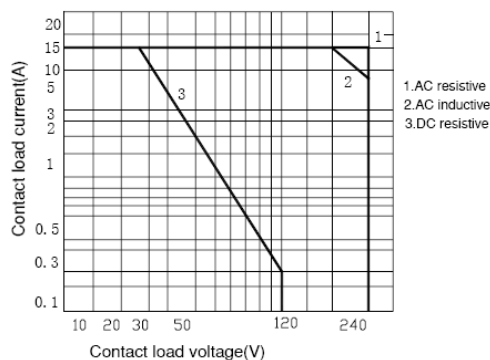
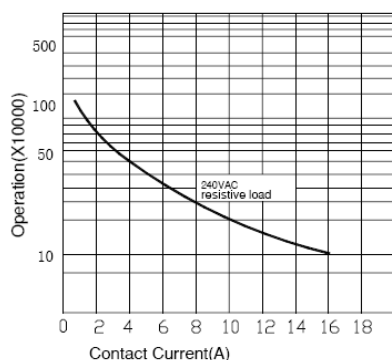
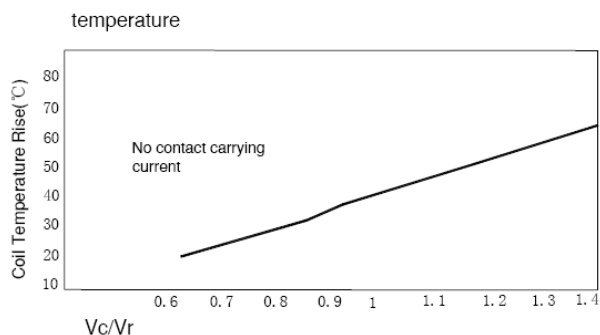
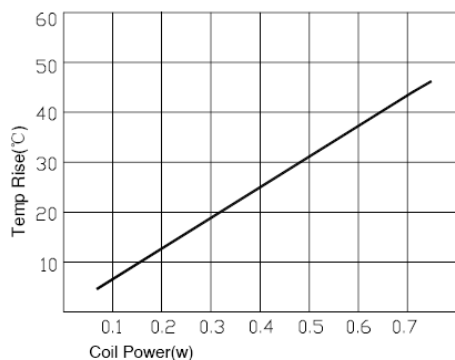
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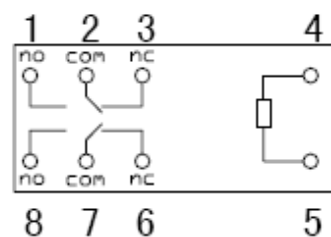
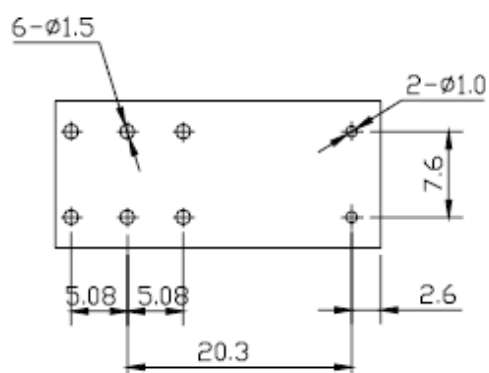
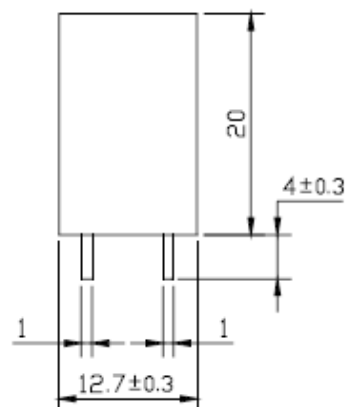
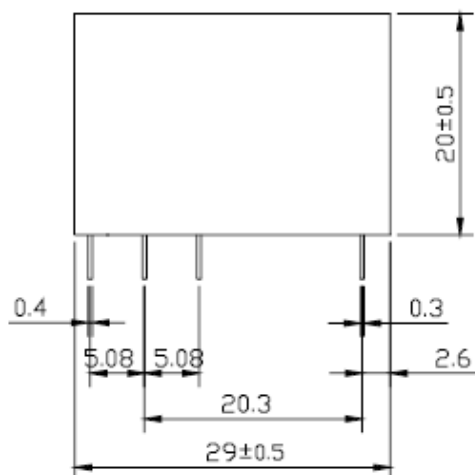


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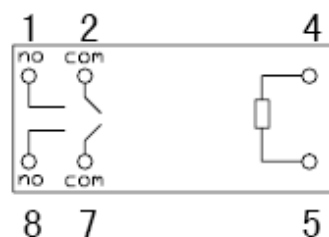
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1) M (5A)



Form C



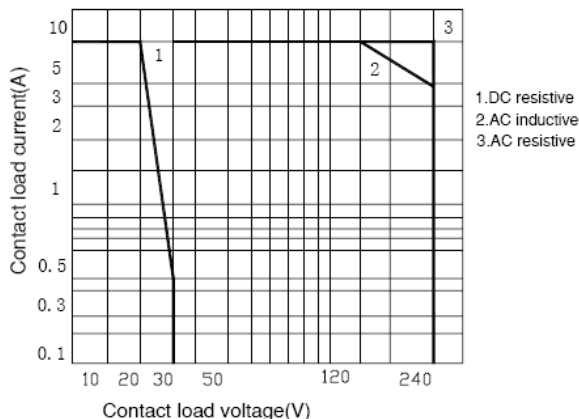
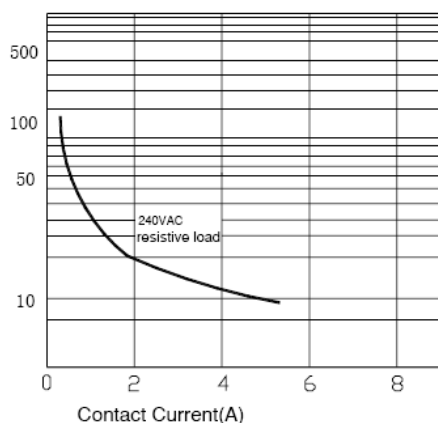
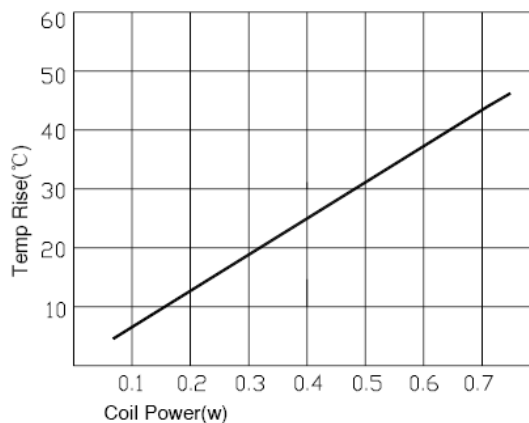
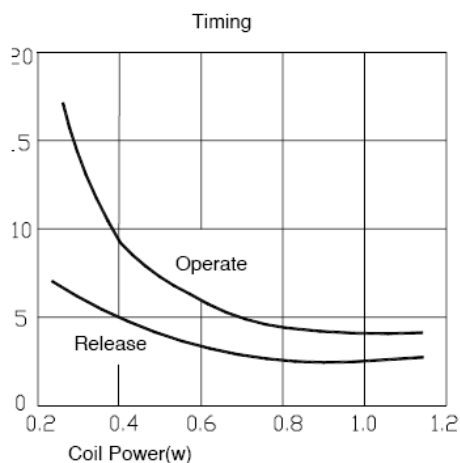
Form A



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