



TITLE

SPECIFICATIONS

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- 16A switching capability
- 1 & 2 pole configuration
- Creepage distance : 10mm
- 5kV dielectric strength (between coil and contacts)



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

2. COIL

COIL VOLTAGE (VDC)	PICK-UP VOLTAGE (VDC)	DROP-OUT VOLTAGE (VDC)	MAX-ALLOWABLE VOLTAGE (VDC)	COIL RESISTANCE (Ω)	COIL POWER (mW)
5	3.50	0.5	7.5	62 x (1±10%)	400
6	4.20	0.6	9.0	90 x (1±10%)	
9	6.30	0.9	13.5	202 x (1±10%)	
12	8.40	1.2	18	360 x (1±10%)	
18	12.60	1.8	27	810 x (1±10%)	
24	16.80	2.4	36	1440 x (1±10%)	
48	33.60	4.8	72	5760 x (1±15%)	
60	42.00	6.0	90	7500 x (1±15%)	
110	77.00	11.0	165	25200 x (1±15%)	

(at 23℃)

3. CONTACTS

3-1) Contact arrangement : 1 form A, 1 form B, 1 form C

2 form A, 2 form B, 2 form C

3-2) Contact Material : AgNi (+ Au plated), AgCdO (+ Au plated),
AgSnO₂

3-3) Contact resistance : 100mΩ at 1A 6VDC

3-4) Contact ratings (Resistive load) :

⊙ 1 form A, 1 form B, 1 form C: 12A/16A 250VAC

⊙ 2 form A, 2 form B, 2 form C: 8A 250VAC

3-5) Max. switching voltage : 440VAC/125VDC



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3-6) Max. switching current :

⊙ 1 form A, 1 form B, 1 form C: 12A/16A

⊙ 2 form A, 2 form B, 2 form C: 8A

3-7) Max. switching power :

⊙ 1 form A, 1 form B, 1 form C: 3000VA/4000VA

⊙ 2 form A, 2 form B, 2 form C: 2000VA

4. CHARACTERISTICS

4-1) Operate time (at nomi. volt.) : Max. 15msec

4-2) Release time (at nomi. volt.) : Max. 8msec

4-3) Temperature rise (at nomi. volt.) : 55K max

4-4) Insulation resistance : 1000M Ω (at 500VDC)

4-5) Dielectric strength

⊙ Between contact sets : AC 2,500 Volt / one minute

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

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

4-6) Surge Voltage (between coil & contacts): 10kV(1.2X50 μ s)

4-7) Vibration resistance : 10 to 150Hz 10g/5g

4-8) Shock resistance

⊙ Functional : 100m/s²

⊙ Destructive : 1000m/s²

4-9) Ambient temperature : -40 to + 85℃

4-10) Humidity : 35 to 85% RH

4-11) Life expectancy

⊙ Mechanical : 1x10⁷ operations

⊙ Electrical : 1x10⁵ operations

4-12) Weight : Approx. 13.5g

4-13) Outline dimension (L x W x H) : 29.0 x 12.7 x 15.7mm

4-14) Safety standard : cUL, VDE



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5. ORDERING INFORMATION

EX.) TH 2 - H 12 S

Contact arrangement	Contact Current	Coil Voltage	S : Sealed type
1 : SPDT(1C) 11 : SPST(1A)	E : 16A H : 12A	5, 6, 9, 12, 18, 24, 48, 60, 110 VDC	
2 : DPDT(2C) 22 : DPST(2A)	NIL : 8A		

Notes:

- 1) When order 5mm pinning for 1pole 12A, please request it.
Texcell produce 3.5mm for 1pole 12A if you don't mention it.
- 2) 1 form B and 2 form B is special code as bellows.
Ex) TH2-110S (2B)

** Disclaimer **

This data sheet is for the customer's reference. All the specifications are subject to change without notice. We could not evaluate all the performance and all parameters for every possible application. Thus the user should be in right position to choose the suitable product for own application. If there is any query, please contact to Texcell Netcom Co., Ltd. for the technical service. However, it is the user's responsibility to determine which product should be used only.

TO:	DATE:
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DEVELOPMENT DEPT.	APPROVED BY:

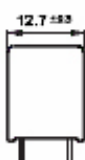
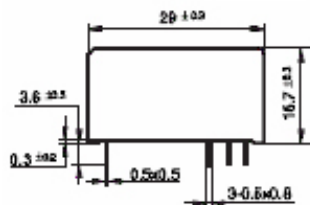


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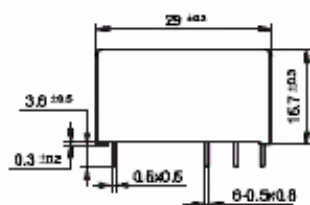
DIMENSIONS

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3.5mm Pinning, 1 Pole, 12A

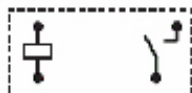


5mm Pinning (1Pole 12A, 1 Pole 16A, 2 Pole 8A)

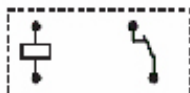


Wiring Diagram (Bottom view)

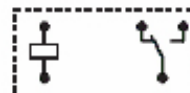
3.5/5mm Pinning, 1 Pole, 12A



1 Form A



1 Form B



1 Form C

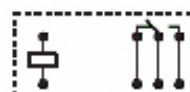
5mm Pinning, 1 Pole, 16A



1 Form A

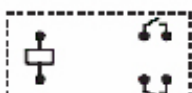


1 Form B

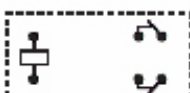


1 Form C

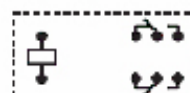
5mm Pinning, 2 Pole, 8A



2 Form A



2 Form B



2 Form C



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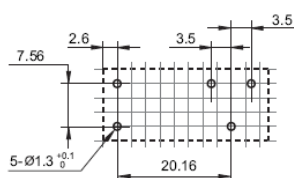
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DIMENSIONS

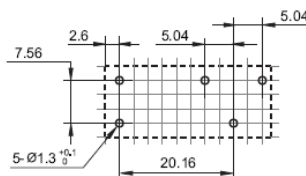
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PCB Layout (Bottom view)

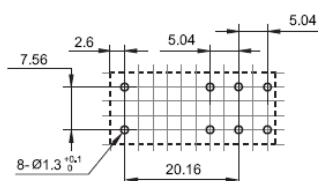
3.5mm 1Pole 12A



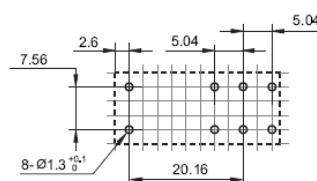
5mm 1Pole 12A



5mm 1Pole 16A

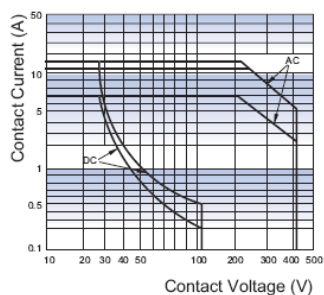


5mm 2Pole 8A

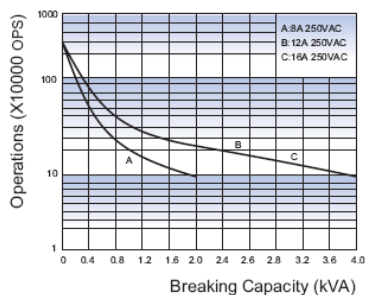


Remark: 1) In case of no tolerance shown in outline dimension: outline dimension $\leq 1\text{mm}$, tolerance should be $\pm 0.2\text{mm}$; outline dimension $> 1\text{mm}$ and $\leq 5\text{mm}$, tolerance should be $\pm 0.3\text{mm}$; outline dimension $> 5\text{mm}$, tolerance should be $\pm 0.4\text{mm}$.
2) The tolerance without indicating for PCB layout is always $\pm 0.1\text{mm}$.
3) The width of the gridding is 2.52mm.

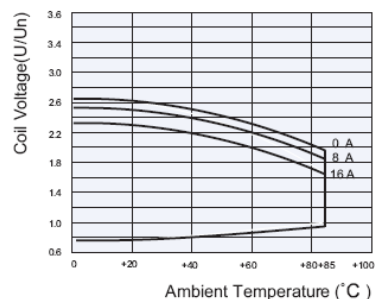
MAXIMUM SWITCHING POWER



ENDURANCE CURVE



COIL OPERATING RANGE (DC)



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