



## TITLE

## SPECIFICATIONS

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- 10kV impulse withstand voltage between coil and contacts
- Highly efficient magnetic circuit for  
High sensitivity : 200mW
- 7A switching capability
- Extremely small footprint utilizing PCB area



1. TYPE: CU RELAY (PCB type)
2. COIL

NOMINAL VOLTAGE (VDC)	PICK-UP VOLTAGE (VDC)	DROP-OUT VOLTAGE (VDC)	MAX ALLOWABLE VOLTAGE (VDC)	COIL RESISTANCE (Ω)	COIL POWER (mW)
3	2.25	0.18	3.90	45 x (1±10%)	200
5	3.75	0.25	6.50	125 x (1±10%)	
6	4.50	0.30	7.80	180 x (1±10%)	
9	6.75	0.45	11.7	405 x (1±10%)	
12	9.00	0.60	15.6	720 x (1±10%)	
18	13.5	0.90	23.4	1620 x (1±10%)	
24	18.0	1.20	31.2	2880 x (1±10%)	

(at 23°C)

### 3. CONTACTS

- 3-1) Contact arrangement : 1 Form A
- 3-2) Contact resistance : 100mΩ at 1A 24VDC
- 3-3) Contact Material : AgNi, AgSnO<sub>2</sub>
- 3-4) Contact rating : 5A 277VAC / 30VDC
- 3-5) Max. switching voltage : 277VAC / 30VDC
- 3-6) Max. switching current : 7A
- 3-7) Max. switching power : 1939VA / 210W



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#### 4. CHARACTERISTICS

4-1) Insulation resistance : 1000M $\Omega$  (at 500VDC)

4-2) Dielectric strength

⊙ Between coil and contacts : AC 4000 Volt / one minute

⊙ Between open contacts : AC 750 Volt / one minute

4-3) Surge voltage (Between coil & contacts) : 10kV (1.2 x 50 $\mu$ s)

4-4) Operate time (at nomi. Volt.) : Max. 10msec

4-5) Release time (at nomi. Volt.) : Max. 10msec

4-6) Shock resistance

⊙ Functional : 98m/s<sup>2</sup>

⊙ Destructive : 980m/s<sup>2</sup>

4-7) Vibration resistance : 10Hz to 55Hz 1.5mm DA

4-8) Humidity : 98%, + 40 $^{\circ}$ C

4-9) Ambient temperature : -40 $^{\circ}$ C to 85 $^{\circ}$ C

4-10) Life expectancy

⊙ Mechanical : 5x10<sup>6</sup> operations

⊙ Electrical : 1x10<sup>5</sup> ops (at 3A 277VAC/30VDC)

1x10<sup>5</sup> ops (at 5A 277VAC/30VDC)

1x10<sup>4</sup> ops (at 7A 277VAC/30VDC)

4-11) Weight : Approx. 3g

4-12) Outline dimension (L x W x H) : 20.5 x 7.2 x 15.3mm

4-13) Safety standard : cUL



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5. ORDERING INFORMATION

EX.) CU 11 - 12 S H

Contact Arrangement	Coil Voltage (VDC)	Construction	Termination
11 : SPST(1A)	3, 5, 6, 9, 12, 18, 24	S : Wash tight Nil : Flux proofed	Nil : Type 1 H : Type 2

Notes: For the application of lamp (except LED), capacitive load, motor load or which can bring high inrush current when relay contacts connect instantly, AgSnO<sub>2</sub> contact material is recommended on priority.

TO:	DATE:
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DEVELOPMENT DEPT.	APPROVED BY:

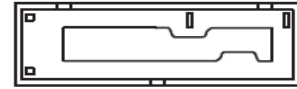
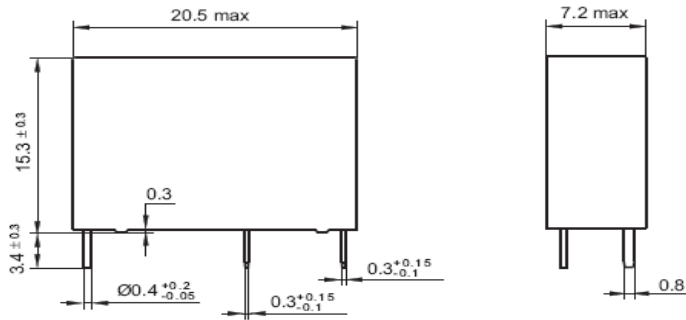


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DIMENSIONS

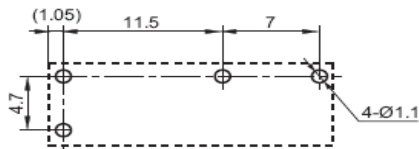
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## 1. Type 1 ("Nil" type)



(Bottom view)

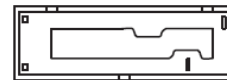
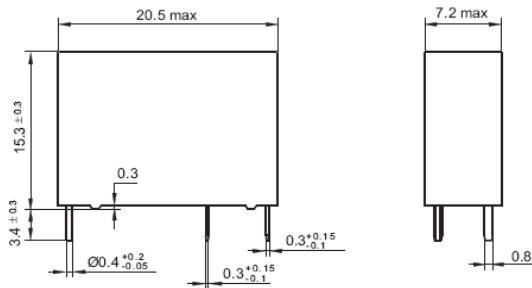
PCB Layout  
(Bottom view)



Wiring Diagram  
(Bottom view)

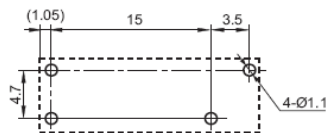


## 2. Type 2 ("H" type)



(Bottom view)

PCB Layout  
(Bottom view)



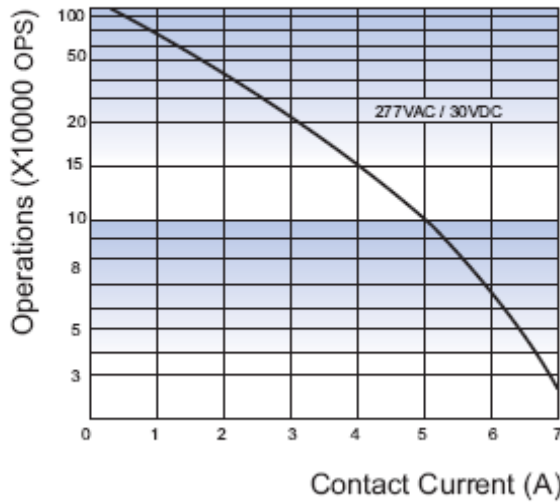
Wiring Diagram  
(Bottom view)



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  $\pm 0.1\text{mm}$ .



### ENDURANCE CURVE



**\*\* 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.

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