



TITLE

SPECIFICATIONS

- 30A switching capability
- 4kV dielectric strength between coil and contacts
- Heavy load up to 7200VAC
- PCB coil terminals, ideal for heavy duty load
- Class F insulation available
- 1 Form B available as special request



1. TYPE: CT RELAY (PCB type / PCB & QC type)
2. COIL

1) DC type

NOMINAL VOLTAGE (VDC)	PICK-UP VOLTAGE (VDC)	DROP-OUT VOLTAGE (VDC)	MAX ALLOWABLE VOLTAGE (VDC)	COIL RESISTANCE (Ω)	COIL POWER (mW)
5	3.75	0.5	6.5	27 x (1±10%)	900
6	4.50	0.6	7.8	40 x (1±10%)	
9	6.75	0.9	11.7	97 x (1±10%)	
12	9.00	1.2	15.6	155 x (1±10%)	
15	11.25	1.5	19.5	256 x (1±10%)	
18	13.50	1.8	23.4	380 x (1±10%)	
24	18.00	2.4	31.2	660 x (1±10%)	
48	36.00	4.8	62.4	2560 x (1±10%)	
70	52.50	7.0	91	5500 x (1±10%)	
110	82.50	11	143	13450 x (1±10%)	

(at 23°C)

* When requiring pick-up voltage <80% of nominal voltage, special order allowed.

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2) AC type

NOMINAL VOLTAGE (VAC)	PICK-UP VOLTAGE (VAC)	DROP-OUT VOLTAGE (VAC)	MAX ALLOWABLE VOLTAGE (VDC)	COIL RESISTANCE (Ω) 23℃	COIL POWER (VA)
12	9.6	2.4	15.6	25 x (1±10%)	2
24	19.2	4.8	31.2	100 x (1±10%)	
120	96.0	24	156	2500 x (1±10%)	
208	166.4	41	270.4	11000 x (1±10%)	
220/240	192	48	286	13490 x (1±10%)	
277	220	54	360.1	15000 x (1±10%)	

(at 23℃)

* When requiring pick-up voltage < 80% of nominal voltage, special order allowed.

3. CONTACTS

3-1) Contact Arrangement : 1 Form A, 1 Form B, 1 Form C

 3-2) Contact Material : AgCdO, AgSnO₂

 3-3) Contact resistance : 50m Ω at 1A 24VDC

3-4) Max. switching capacity : 7200VA/560W (1 Form A)

3600VA/280W (1 Form B)

4800VA/560W (1 Form C - NO)

2400VA/280W (1 Form C - NC)

3-5) Max. switching voltage : 277VAC/28VDC

3-6) Max. switching current : 40A (1 Form A)

15A (1 Form B)

20A (1 Form C - NO)

10A (1 Form C - NC)



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- 3-7) Contact rating : 30A/240VAC, 20A/28VDC (1 Form A)
15A/240VAC, 10A/28VDC (1 Form B)
20A/240VAC, 20A/28VDV (1 Form C - NO)
10A/240VAC, 10A/28VDC (1 Form C - NC)

4. CHARACTERISTICS

- 4-1) Insulation resistance : 1000M Ω (at 500VDC)
- 4-2) Dielectric strength
- ⊙ Between coil and contacts :
 - PCB type : AC 2500/4000 Volt / one minute
 - PCB & QC type : AC 2500 Volt / one minute
 - ⊙ Between open contacts : AC 1,500 Volt / one minute
- 4-3) Operate time (at nomi. Volt.) : Max. 15msec
- 4-4) Release time (at nomi. Volt.) : Max. 10msec
- 4-5) Ambient temperature
- ⊙ Class B : DC : -55 $^{\circ}$ C to 85 $^{\circ}$ C / AC : -55 $^{\circ}$ C to 60 $^{\circ}$ C
 - ⊙ Class F : DC : -55 $^{\circ}$ C to 105 $^{\circ}$ C / AC : -55 $^{\circ}$ C to 85 $^{\circ}$ C
- 4-6) Shock resistance
- ⊙ Functional : 100m/s² (10g)
 - ⊙ Destructive : 1000m/s² (100g)
- 4-7) Vibration resistance : 10Hz to 55Hz 1.5mm DA
- 4-8) Humidity : 98% RH, 40 $^{\circ}$ C
- 4-9) Life expectancy
- ⊙ Mechanical : 1x10⁷ operations
 - ⊙ Electrical : 1x10⁵ operations



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SPECIFICATIONS

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4-10) Weight : Approx. 36g

4-11) Outline dimension (L x W x H) :

⊙ PCB : 32.2 x 27.0 x 20.1 mm

⊙ PCB & QC : 32.4 x 27.5 x 27.8 mm

4-12) Safety standard : cUL

5. ORDERING INFORMATION

EX.) CT 11 TMP - D12 S F

Contact Arrangement	** Contact Current	Coil Voltage	Construction	Insulation standard
1 : SPDT(1C) 11 : SPST-NO (1A)	Nil: With Pin NO.6 (2500VAC) B : Without Pin NO.6 (4000VAC) N : Without Pin NO.6 (2500VAC) TMP : PCB & QC	D : 5 to 110 VDC A: 12 to 277VAC	S : Sealed type Nil: Dust protected Unenclosed	Nil : Class B F : Class F

** Contact Current

B: Dielectric strength between coil and contact : 4000VAC

N: Dielectric strength between coil and contact : 2500VAC

** Note: 1 form B is special code as bellows. Ex) CT11-D12S (1B)

** 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:
TEXCELL NETCOM CO., LTD.	DRAWN BY: CHECKED BY:
DEVELOPMENT DEPT.	APPROVED BY:



TITLE

DIMENSIONS

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A. PCB type

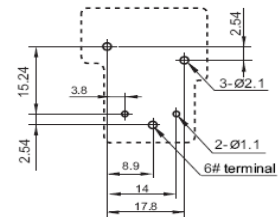
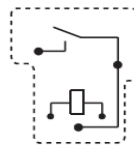
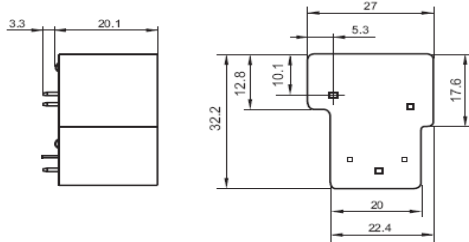
1 Form A

Outline Dimensions

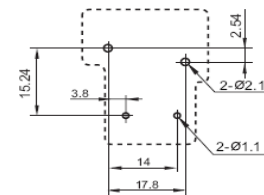
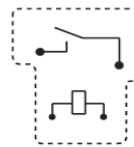
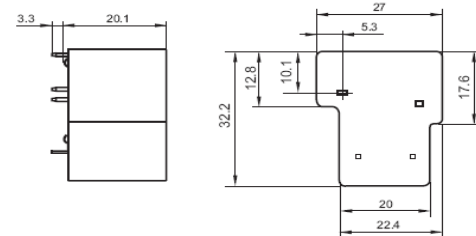
Wiring Diagram (Bottom view)

PCB Layout (Bottom view)

With 6# terminal

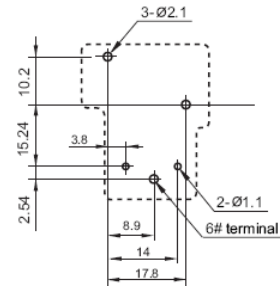
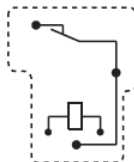
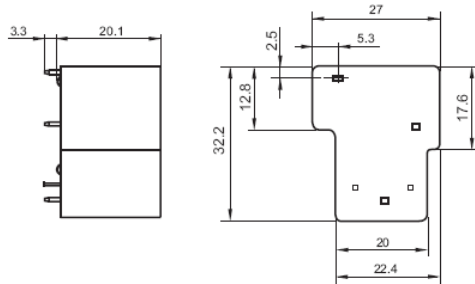


Without 6# terminal

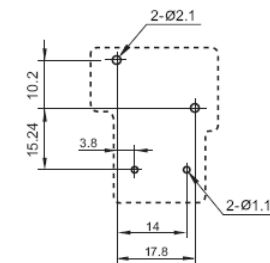
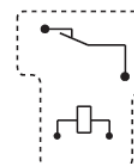
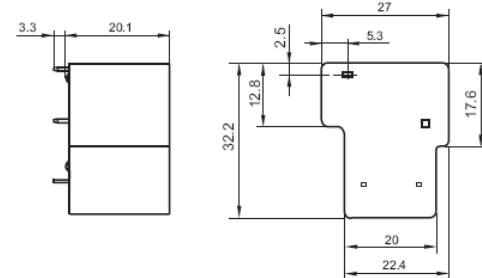


1 Form B

With 6# terminal



Without 6# terminal





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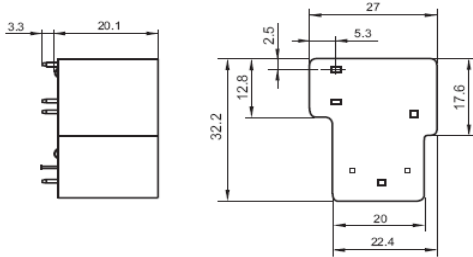
DIMENSIONS

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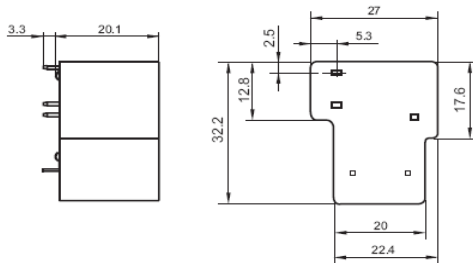
1 Form C

Outline Dimensions

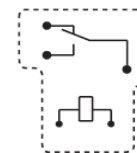
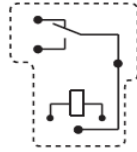
With 6# terminal



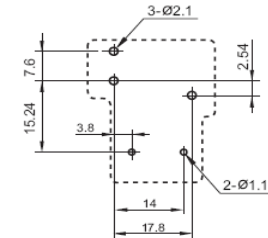
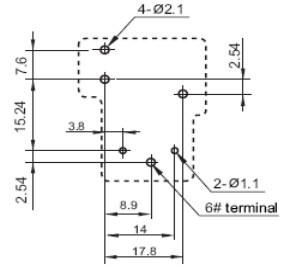
Without 6# terminal



Wiring Diagram
(Bottom view)



PCB Layout
(Bottom view)





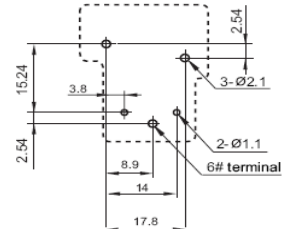
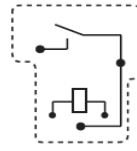
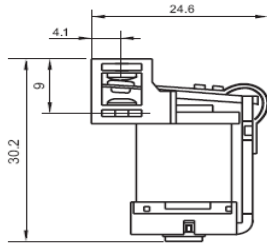
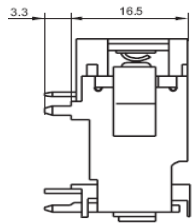
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DIMENSIONS

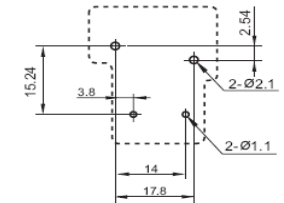
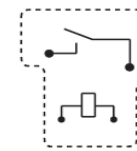
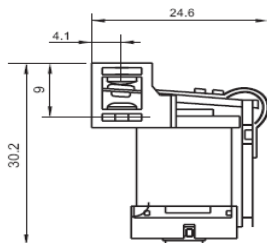
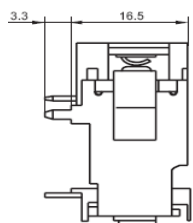
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1 Form A

With 6# terminal



Without 6# terminal



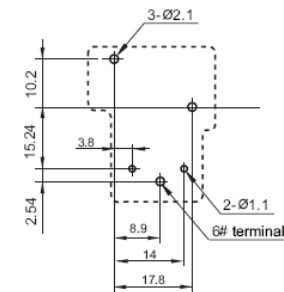
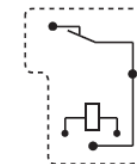
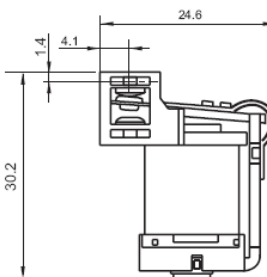
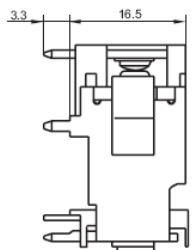
1 Form B

Outline Dimensions

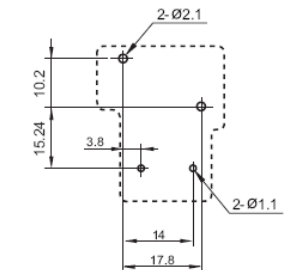
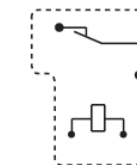
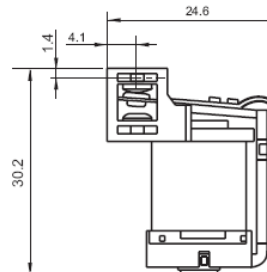
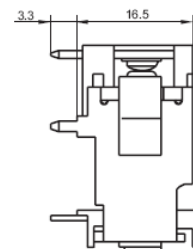
Wiring Diagram
(Bottom view)

PCB Layout
(Bottom view)

With 6# terminal



Without 6# terminal





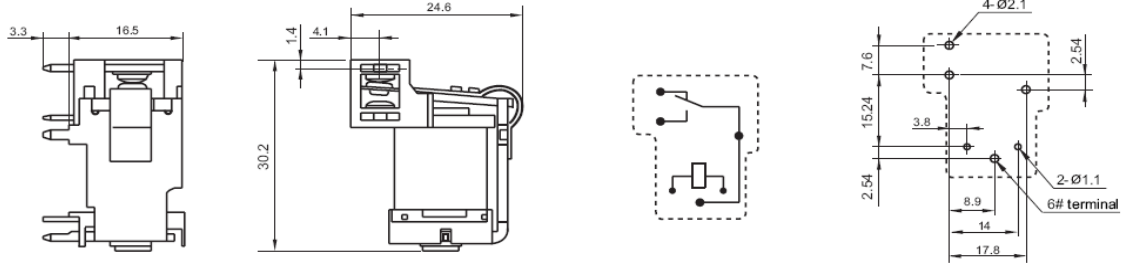
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DIMENSIONS

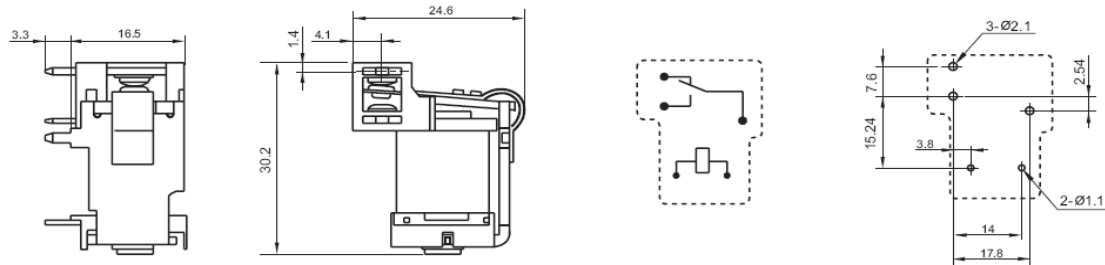
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1 Form C

With 6# terminal



Without 6# terminal



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 $\pm 0.1\text{mm}$.



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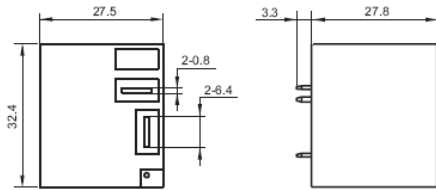
DIMENSIONS

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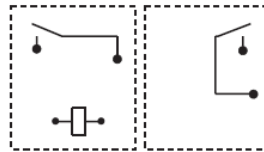
B. PCB & QC type

1 Form A

Outline Dimensions

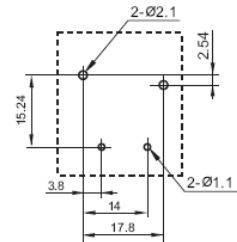


Wiring Diagram

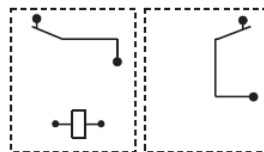
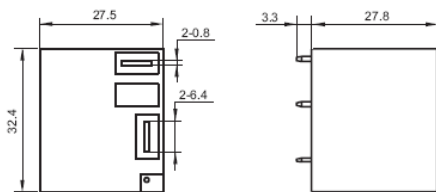


(Bottom view) (Top view)

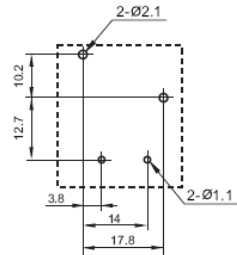
PCB Layout
(Bottom view)



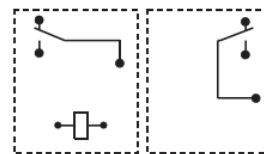
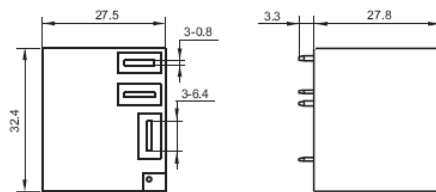
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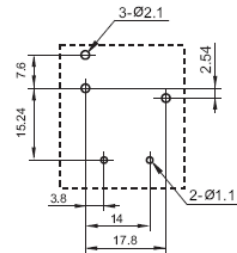
(Bottom view) (Top view)



1 Form C



(Bottom view) (Top 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 $\pm 0.1\text{mm}$.

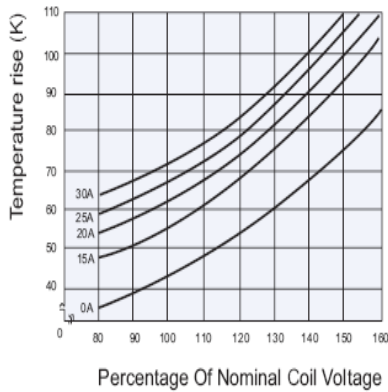


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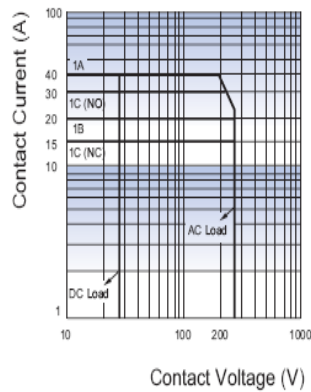
CHARACTERISTIC CURVE

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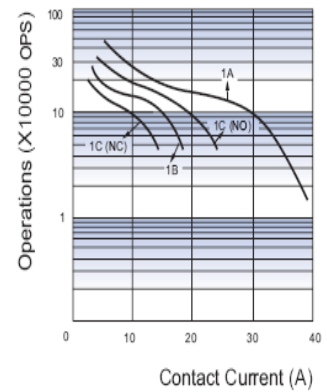
COIL TEMPERATURE RISE



MAXIMUM SWITCHING POWER



ENDURANCE CURVE



TO:	DATE:
TEXCELL NETCOM CO., LTD.	DRAWN BY: CHECKED BY:
DEVELOPMENT DEPT.	APPROVED BY: