



TITLE

SPECIFICATIONS

PAGE 1/5

- AC voltage coil type
- 16A switching capability
- 1 & 2 pole configurations
- 5kV dielectric strength (between coil and contacts)



1. TYPE: CM RELAY (P/C Board type)
2. COIL

NOMINAL VOLTAGE (VAC)	PICK-UP VOLTAGE (VAC)	DROP-OUT VOLTAGE (VAC)	COIL CURRENT (mW)	COIL RESISTANCE (Ω)	COIL POWER (VA)
24	18.00	3.60	31.6	350 x (1 \pm 10%)	0.75
115	86.30	17.30	6.6	8100 x (1 \pm 15%)	
230	172.50	34.50	3.2	32500 x (1 \pm 15%)	

(at 50Hz, at 23°C)

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 : AgCdO (+ Au plated), AgNi (+ Au Plated), AgSnO₂ (+ Au Plated)
- 3-3) Contact resistance : 100m Ω at 1A 6VDC
- 3-4) Contact ratings (Resistive load) :
 - ⊙ 1 form A, 1 form B, 1 form C: 12/16A 250VAC,
 - ⊙ 2 form A, 2 form B, 2 form C: 8A 250VAC
- 3-5) Max. switching voltage : 440VAC
- 3-6) Max. switching current :
 - ⊙ 1 form A, 1 form B, 1 form C: 12/16A
 - ⊙ 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



TITLE

SPECIFICATIONS

PAGE 2/5

4. CHARACTERISTICS

4-1) Temperature rise (at nomi. volt.) : 65K max

4-2) Insulation resistance : 1000M Ω (at 500VDC)

4-3) Dielectric strength

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

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

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

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

4-5) Shock resistance

⊙ Functional : 100m/s² (10g)

⊙ Destructive : 1000m/s² (100g)

4-6) Ambient temperature : -40 to + 70 $^{\circ}$ C

4-7) Humidity : 35 to 85% RH

4-8) Life expectancy

⊙ Mechanical : 1x10⁶ operations

⊙ Electrical : 5x10⁴ operations

4-9) Weight : Approx. 13.5g

4-10) Outline dimension (L x W x H) : 29.0 x 12.7 x 15.7mm

4-11) Insulation standard : Class F



TITLE

SPECIFICATIONS

PAGE 3/5

5. ORDERING INFORMATION

EX.) CM 11 - H A230 S

Contact arrangement	Contact Current	Coil Voltage	
1 : SPDT(1C) 11 : SPST(1A)	E : 16A H : 12A	24, 115, 230 VAC	S : Sealed type
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) CM2-A230S (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:
TEXCELL NETCOM CO., LTD.	DRAWN BY: CHECKED BY:
DEVELOPMENT DEPT.	APPROVED BY:

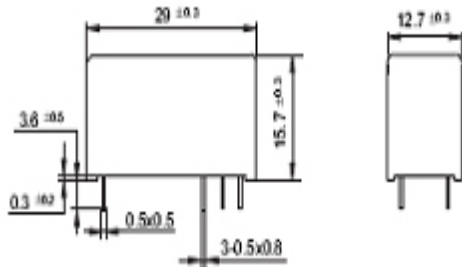


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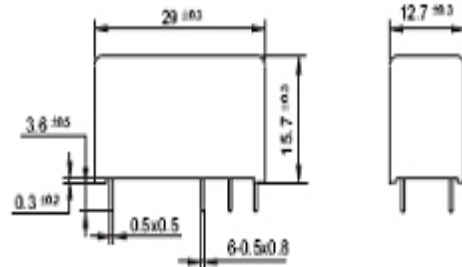
DIMENSIONS

PAGE 4/5

3.5mm Pinning

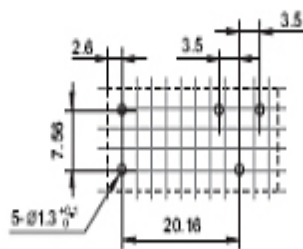


5mm Pinning

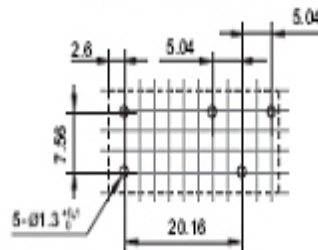


PCB Layout (Bottom view)

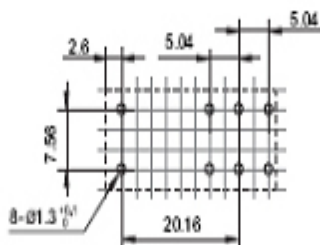
3.5mm 1Pole 12A



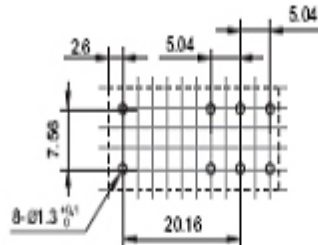
5mm 1Pole 12A



5mm 1Pole 16A



5mm 2Pole 8A



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



TITLE

DIMENSIONS

PAGE 5/5

Wiring Diagram (Bottom view)

3.5/5mm Pinning, 1 Pole, 12A



1 Form A



1 Form B



1 Form C

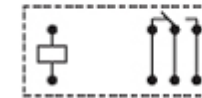
5mm Pinning, 1 Pole, 16A



1 Form A

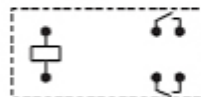


1 Form B

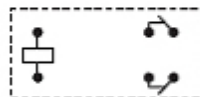


1 Form C

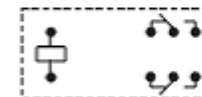
5mm Pinning, 2 Pole, 8A



2 Form A

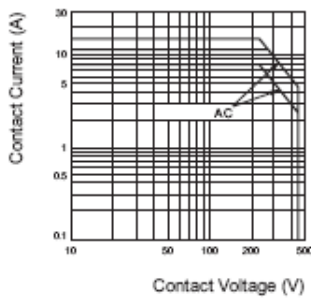


2 Form B

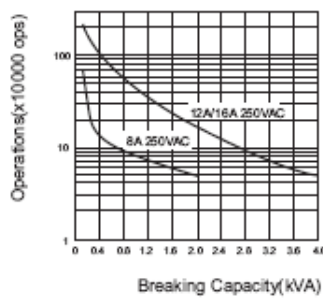


2 Form C

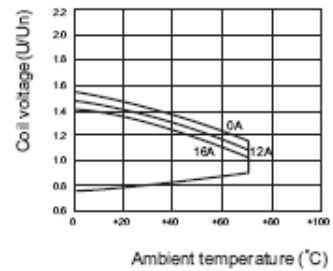
MAXIMUM SWITCHING POWER



ENDURANCE CURVE



COIL OPERATING RANGE (AC)



TO:

TEXCELL NETCOM CO., LTD.
DEVELOPMENT DEPT.

DATE:

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