

CIC COMPONENTS IND. CO., LTD.

SPECIFICATION

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1.APPLICATION

THIS SPECIFICATION APPLIES TO DC TYPE SOLENOID, PART NO : 141-04C0002

2.STANDARD TESTING CONDITIONS

2-1 ENVIRONMENTS :

AMBIENT TEMPERATURE : 20°C±2°C.

RELATIVE HUMIDITY : 65%±5%.

ATMOSPHERIC PRESSURE : 1013 mbar.

2-2 MECHANICAL LOAD : PUSH-PULL GAUGE.

2-3 POWER : STEADY POWER.(RIPPLE VOLTAGE 2mVrms MAX).

2-4 TEST POSTURE :

(1)PULL FORCE :

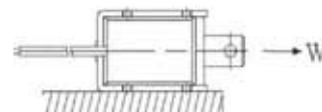
PLUNGER TO BE HORIZONTAL AND LOAD HORIZONTAL. (AS PER FIG. ABOVE)

(2)RESIDUAL MAGNETISM :

PLUNGER TO BE VERTICAL AND FREE FALL. (AFTER ENERGIZE 5 TIMES)

(3)HOLDING FORCE :

PLUNGER TO BE HORIZONTAL AND LOAD HORIZONTAL. (AS PER FIG. ABOVE)



3.APPEARANCE AND OUTLINE DIMENSIONS :

3-1 APPEARANCE : FREE FROM DAMAGE, CRACK, RUST, CHIP OR STAIN ON SURFACE.

3-2 OUTLINE DIMENSION : SEE THE ATTACHMENT DRAWING NO : 141-04C00

4.RATED SPECIFICATION :

4-1 RATED VOLTAGE : DC 12V

4-2 RATED CURRENT : 0.1A

4-3 RATED WATTAGE : 1.2W

4-4 DC RESISTANCE : 120Ω±10% AT 20°C

4-5 DUTY CYCLE : CONTINUOUS(100%)

4-6 INSULATION CLASS : CLASS A

4-7 APPLY SPEC : UL, CSA

5.ELECTRONICAL AND MECHANICAL CHARACTERISTICS :

5-1 PULL FORCE :

DC 12V APPLIED AT 20°C,INITIAL VALUE STROKE 2mm, 22.5g MIN.

5-2 INSULATION RESISTANCE :

DC500V SUPPLIED BETWEEN COIL AND YOKE ,VALUE 100 MΩ MIN.

5-3 DIELECTRIC STRENGTH :

AC 500V(50/60Hz) SUPPLIED BETWEEN COIL AND YOKE FOR 1 MINUTE,
OR AC 600V(50/60Hz) FOR 1 SEC.

5-4 TEMPERATURE RISE :

DC 12V SUPPLIED ACCORDING TO DUTY CYCLE 100% ,
65°C MAX. WITH RESISTANCE METHOD.



		黃俊元	江盛銓	高尙謙	陳致銘
		2013/07/12	2013/07/12	2013/07/10	2013/07/11
MODIFY DESCRIPTION					
SPC NO.	APR-14104C0002E	APPROVAL	CONFIRM	CHECK	DRAW

VER. A

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SPECIFICATION

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5-5 LIFE :

DC 12V SUPPLIED,STROKE 2mm, LOAD 10g , ACCORDING TO DUTY CYCLE 50%. (ON 0.2 SEC, OFF 0.2 SEC) PULES 500,000 CYCLE CONTINUOUSLY ,MUST BE STILL MEETING THE FEATURES OF 5-1, 5-2, 5-3 REQUIRMENTS.

5-6 TENSION STRENGTH OF LEAD WIRE OR CONNECTOR :

0.5kg APPLIED FOLLOWING LEAD WIRE OR CONNECOR OUTLETING DIRECTION FOR 5 SEC, NO ABNORMALITY HAPPENS TO LEAD WIRE OR CONNECTOR.

5-7 ASSEMBLY STRENGTH :

ASSEMBLY STRENGTH OF PLUNDER AND SHAFT : 3Kg MIN.

6.IDENTIFICATION MARK :

6-1 LABEL :

DC 12V ----- VOLTAGE
ED:100% -----DUTY CYCLE
www.tai-shing.com.tw ----- WEB ADDRESS

7.SPECIFICATION OR ENGINEERING CHANGE :

7-1 SPECIFICATION OR ENGINEERING CHANGE HAVE TO BE APPROVED BOTH BY TSE AND CUSTOMER.

7-2 IF CUSTOMER HAS NO SPECIAL REQUEST, TSE REMAINS THE RIGHT OF DESIGN CHANG UNDER NOT CHANGING SPECIFICATION AND OUTLINE DIMENSION OF PRODUCT.

8.RELIABILITY TEST :

8-1 HOT STORAGE TSET :

TEMPERATURE : 80°C±3°C, TIME : 72±1 HOUR.
IT COULD MEET THE FEATURES OF 5-1, 5-2, 5-3 REQUIREMENTS.

8-2 COLD STORAGE TSET :

TEMPERATURE : -25°C±3°C, TIME : 72±1 HOUR.
IT COULD MEET THE FEATURES OF 5-1, 5-2, 5-3 REQUIREMENTS.

8-3 MOISTURE TEST :

TEMPERATURE : 40°C±3°C
HUMIDTY : RH 90%~95%
TIME : 48±1 HOURS
IT COULD MEET THE FEATURES OF 5-1, 5-2, 5-3 REQUIREMENTS.

8-4 OPERATING TEMPERATURE : -20°C+40°C

8-5 STORAGE TEMPERATURE : -10°C+80°C

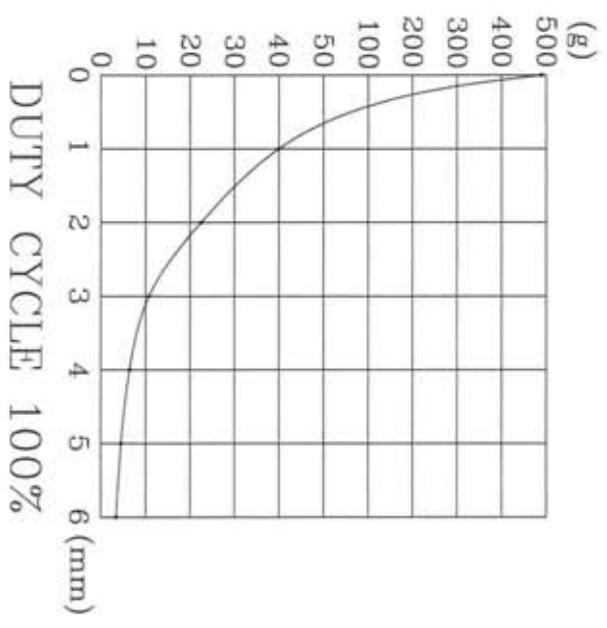
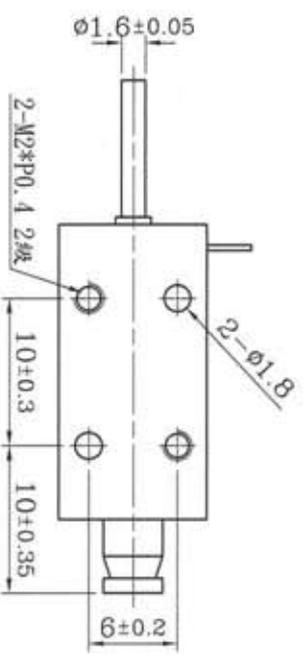
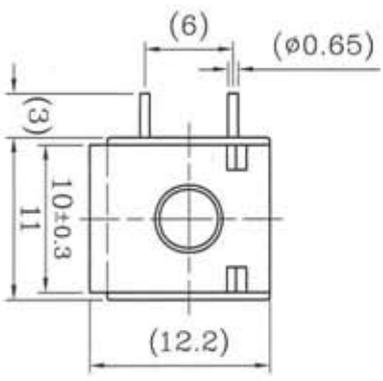
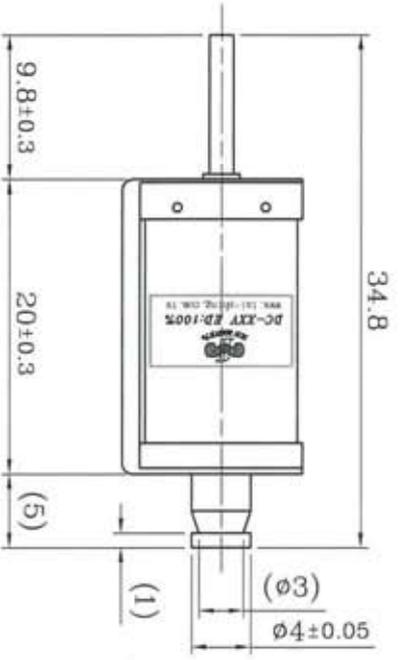
9.RoHS REQUIREMENT :

THIS SOLENOID IS RoHS COMPLIANT.

		黃俊元	江盛銓	高尙謙	陳致銘
		2013/07/12	2013/07/12	2013/07/10	2013/07/11
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VER. A

備註：
 1. 本圖為通電狀態 (Shown energized).
 2. 本料件符合 ROHS (ROHS Compliant).



APPROVED	CONFIRMED	CHECKED	DESIGNED	DRAWN	VER.	ENGINEERING CHANGE DESCRIPTION	NAME	DATE
研發 IEC 28 2007 蔡春長	研發 IEC 10 2007 高尚謙	研發 IEC 05 2007 陳榮傑	研發 IEC 04 2007 魏嘉鴻	研發 IEC 04 2007 魏嘉鴻	A	EC007082701T 轉接座一及變壓器組圖組	魏嘉鴻	

Unit: mm	Dimension Tolerance	Material
Scale 2:1	0 - 3	±0.2
Radius R0.1	> 3 - 6	±0.3
Chamfer: 0.1*45	> 6 - 30	±0.5
3rd Angle Projection	> 30 - 120	±0.8
General	> 120 - 315	±1.2
Machined	> 315 - 1000	±1.2
Roughness	> 1000 - 2000	±1.3
Angles Tolerance		±30'

DRAWING NAME: 外形圖
 DWG 141-04C00
 USED ON: SMC-0420SXXSTD
 DRAWING NO.
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 VER. B