

CIC COMPONENTS IND. CO., LTD.

SPECIFICATION

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1.APPLICATION

THIS SPECIFICATION APPLIES TO DC TYPE SOLENOID, PART NO : 101-16A0002

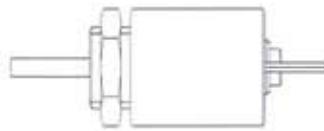
2.STANDARD TESTING CONDITIONS

2-1 ENVIRONMENTS :

AMBIENT TEMPERATURE : $20^{\circ}\text{C} \pm 2^{\circ}\text{C}$.

RELATIVE HUMIDITY : $65\% \pm 5\%$.

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 : 101-16A00

4.RATED SPECIFICATION :

4-1 RATED VOLTAGE : DC 12V

4-2 RATED CURRENT : 0.46A

4-3 RATED WATTAGE : 5.5W

4-4 DC RESISTANCE : $26.2\Omega \pm 10\%$ AT 20°C

4-5 DUTY CYCLE : CONTINUOUS(100%)

4-6 INSULATION CLASS : CLASS E

4-7 APPLY SPEC : UL, CSA

5.ELECTRONICAL AND MECHANICAL CHARACTERISTICS :

5-1 PULL FORCE :

DC 12V APPLIED AT 20°C ,INITIAL VALUE STROKE 5mm, 50gf MIN.

5-2 INSULATION RESISTANCE :

DC 500V SUPPLIED BETWEEN COIL AND YOKE ,VALUE $100\text{ M}\Omega$ 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% , 80°C MAX

WITH RESISTANCE METHOD.

	黃俊元	江盛銓	高尚謙	陳致銘
2014/08/20	2014/08/19	2014/08/18	2014/08/18	
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5-5 LIFE :

DC 12V SUPPLIED, STROKE 5mm, LOAD 25g , ACCORDING TO DUTY CYCLE 50%. (ON 0.5SEC, OFF 0.5SEC) PULES 2,000,000CYCLE CONTINUOUSLY , MUST BE STILL MEETING THE FEATURES OF 5-1, 5-2, 5-3 REQUIREMENTS.

5-6 TENSION STRENGTH OF LEAD WIRE OR CONNECTOR :

1kg APPLIED FOLLOWING LEAD WIRE OR CONNECTOR OUTLETING DIRECTION FOR 5 SEC, NO ABNORMALITY HAPPENS TO LEAD WIRE OR CONNECTOR.

5-7 ASSEMBLY STRENGTH :

ASSEMBLY STRENGTH OF BODY : 3Kg MIN.

ASSEMBLY STRENGTH OF PLUNGER AND SHAFT : 6Kg MIN.

6.IDENTIFICATION MARK :

6-1 LABEL :

DC 12V -----RATED 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 CHANGE UNDER NOT CHANGING SPECIFICATION AND OUTLINE DIMENSION OF PRODUCT.

8.RELIABILITY TEST :

8-1 HOT STORAGE TSET :

TEMPERATURE : $80^{\circ}\text{C} \pm 3^{\circ}\text{C}$, TIME : 72 ± 1 HOUR.

IT COULD MEET THE FEATURES OF 5-1, 5-2, 5-3 REQUIREMENTS.

8-2 COLD STORAGE TSET :

TEMPERATURE : $-25^{\circ}\text{C} \pm 3^{\circ}\text{C}$, TIME : 72 ± 1 HOUR.

IT COULD MEET THE FEATURES OF 5-1, 5-2, 5-3 REQUIREMENTS.

8-3 MOISTURE TEST :

TEMPERATURE : $40^{\circ}\text{C} \pm 3^{\circ}\text{C}$

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 : $-20^{\circ}\text{C} \sim +40^{\circ}\text{C}$

8-5 STORAGE TEMPERATURE : $-10^{\circ}\text{C} \sim +80^{\circ}\text{C}$

9.RoHS REQUIREMENT :

THIS SOLENOID IS RoHS COMPLIANT.

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