

CIC COMPONENTS IND. CO., LTD.

SPECIFICATION

1.APPLICATION

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

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 :

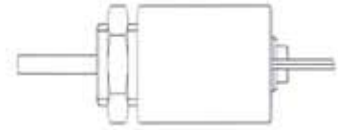
PLUNGER TO BE HORIZONTAL AND LOAD HORIZONTAL. (AS PER FIG. ABOVE)

(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 : 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 : 26.2Ω±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 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% ,80°C MAX
WITH RESISTANCE METHOD.

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		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 REQUIRMENTS.

5-6 TENSION STRENGTH OF LEAD WIRE OR CONNECTOR :

1kg 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 BODY : 3Kg MIN.
ASSEMBLY STRENGTH OF PLUNDER 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 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.

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