Front view and mounting

Side view

Rear view

SPECIFICATION

CONNECTION

UNIPOLAR OR BIPOLAR

BIPOLAR-1 WINDING SERIAL PARALLEL

VOLTAGE (VDC) 4.4

AMPS/PHASE 1.1 0.78 1.56

RESISTANCE/PHASE (Ohms) @ 25°C 4.0±15% 8.0±15% 2.0±15%

INDUCTANCE/PHASE (mH) @ 1kHz 5.0±20% 20±20% 5.0±20%

HOLDING TORQUE (Nm) [lb-in] 0.43 [3.806] 0.608 [5.381] 0.608 [5.381]

DETENT TORQUE (Nm) [lb-in] 0.0129 [0.114]

STEP ANGLE (°) 0.9

STEP ACCURACY (NON-ACCUM) ±15%

ROTOR INERTIA (Kg-m²) [lb-in²] 1.2×10⁻⁵ [0.041]

WEIGHT (Kg) 0.45 [0.992]

TEMPERATURE RISE: MAX. 80°C (MOTOR STANDSTILL; FOR 2 PHASE ENERGIZED)

AMBIENT TEMPERATURE -10°C to 50°C [14°F to 122°F]

INSULATION RESISTANCE 100 MΩhm (UNDER NORMAL TEMPERATURE AND HUMIDITY)

INSULATION CLASS B 130°C [266°F]

DIELECTRIC STRENGTH 500VAC FOR 1 MIN. (BETWEEN THE MOTOR COILS AND THE MOTOR CASE)

AMBIENT HUMIDITY MAX. 85% (NO CONDENSATION)

PERMISSIBLE RADIAL+AXIAL FORCE

ROTOR SPRING- MOUNTED IN AXIAL DIRECTION

SPRING WASHER

BEARING

FR

AXIAL-FORCE Fa (N) Fa=10

DISTANCE a (mm) 5 10 15 20

RADIAL-FORCE Fr (N) 130 90 70 52

SHAFT PLAY (mm) 0.075 0.025

AT LOAD MAX: (N) 10 5.0

TYPE OF CONNECTION (EXTERN)

MOTOR

LEADS WINDING

UNIPOLAR TWINDING SERIAL PARALLEL

A A A A

B B B B

COM - - - -

A\ A\ A\ A\ 

B\ B\ B\ B\ 

COM - - - -

BEARING

FULL STEP 2 PHASE-Ex., WHEN FACING MOUNTING END (X)

STEP A B A B A B CCW

1 + + + -

2 + + + -

3 - - + +

4 - - - + CW

ST5709X1108

STEPPING MOTOR

NANOTEC: S.Ha.

SCALE FREE APVD 15.01.07

CHKD J.W.

DWG.NO ST5709X1108

REV DESCRIPTION DATE APVD

DRN.