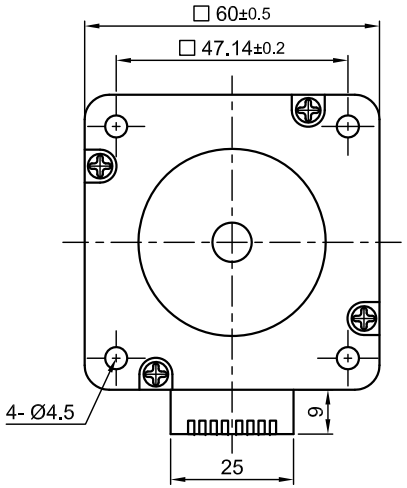
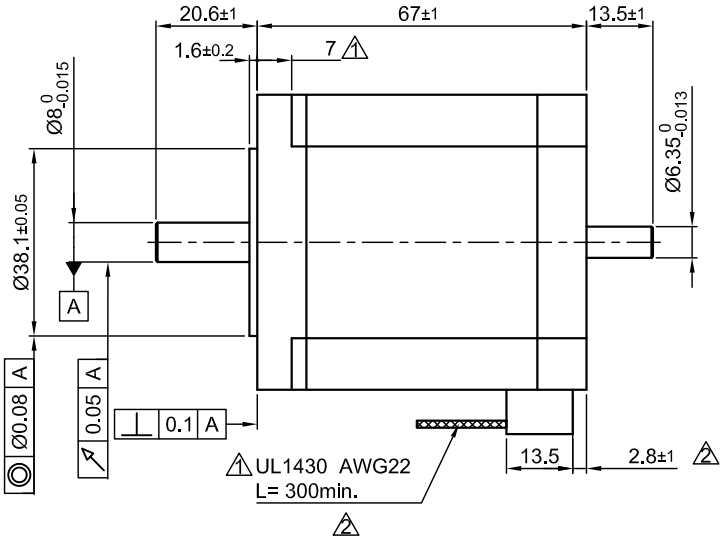
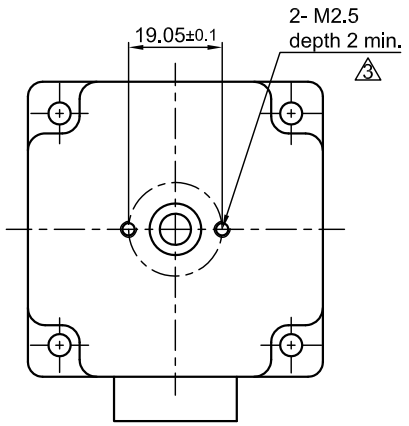
Front view and mounting



Side view

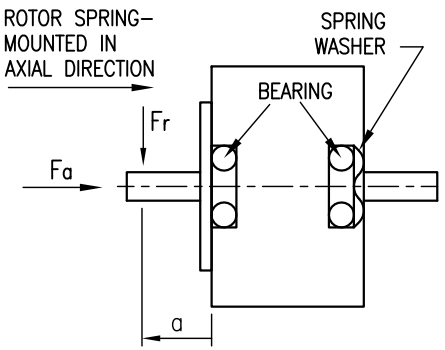


Rear view



SPECIFICATION \ CONNECTION	UNIPOLAR OR BIPOLAR–1 WINDING	BIPOLAR SERIAL	BIPOLAR PARALLEL
VOLTAGE (VDC)	4.8		
AMPS/PHASE	2.0	1.41	2.82
RESISTANCE/PHASE (Ohms)@25°C	2.4±15%	4.8±15%	1.2±15%
INDUCTANCE/PHASE (mH) @1KHz	4.6±20%	18.4±20%	4.6±20%
HOLDING TORQUE (Nm) [lb–in]	1.5 [13.28]	2.12 [18.76]	2.12 [18.76]
DETENT TORQUE (Nm) [lb–in]	0.045 [0.398]		
STEP ANGLE (°)	1.8		
STEP ACCURACY (NON–ACCUM)	±5%		
ROTOR INERTIA (Kg–m^2) [lb–in^2]	5.7x10^{-5} [0.195]		
WEIGHT (Kg) [lb]	1.2 [2.65]		

PERMISSIBLE RADIAL+AXIAL FORCE



AXIAL–FORCE Fa (N)	Fa=14			
DISTANCE a (mm)	5	10	15	20
RADIAL–FORCE Fr (N)	163	112	85	63

	AXIAL	RADIAL
SHAFT PLAY (mm)	0.075	0.025
AT LOAD MAX: (N)	10	5.0

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

AMBIENT TEMPERATURE –10°~ 50°C [14°F ~ 122°F]

INSULATION RESISTANCE 100 MOhm (UNDER NORMAL TEMPERATURE AND HUMIDITY)

INSULATION CLASS B 130° [266°F]

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

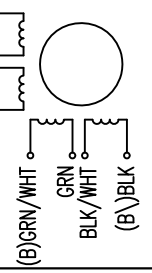
AMBIENT HUMIDITY MAX. 85% (NO CONDENSATION)

TYPE OF CONNECTION (EXTERN)				MOTOR	
UNIPOLAR	BIPOLAR 1WINDING	BIPOLAR SERIAL	BIPOLAR PARALLEL	LEADS	WINDING
A	A	A	A	BLU/WHT	A
COM				BLU	
A\		A\	A\	RED/WHT	A\
B	B	B	B	RED	
COM				GRN/WHT	B
B\		B\	B\	GRN	
				BLK/WHT	B\
				BLK	

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

STEP	A	B	A\	B\	
1	+	+	–	–	CCW ↑
2	–	+	+	–	
3	–	–	+	+	
4	+	–	–	+	CW ↓

WIRING DIAGRAM



REV	DESCRIPTION	DATE	DRN
3	change tolerance	08.11.16	A.S.
2	change tol. cable/rework draw	09.03.16	A.S.
1	LENGTH+UL NO.	04.08.09	J.W.

Nanotec® PLUG & DRIVE

Surface specification DIN ISO 1302	General tolerances DIN ISO 2768- cH	Work piece edge DIN ISO 13715

APVD	S.Ha.	16.01.07
CHKD		
DRN	J.W.	13.07.06
SIGNATURE		DATE

STEPPING MOTOR

DWG.NO ST6018K2008–B