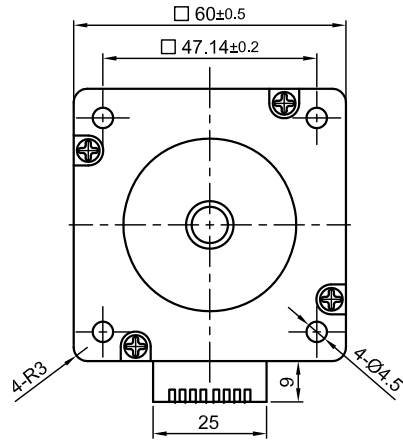
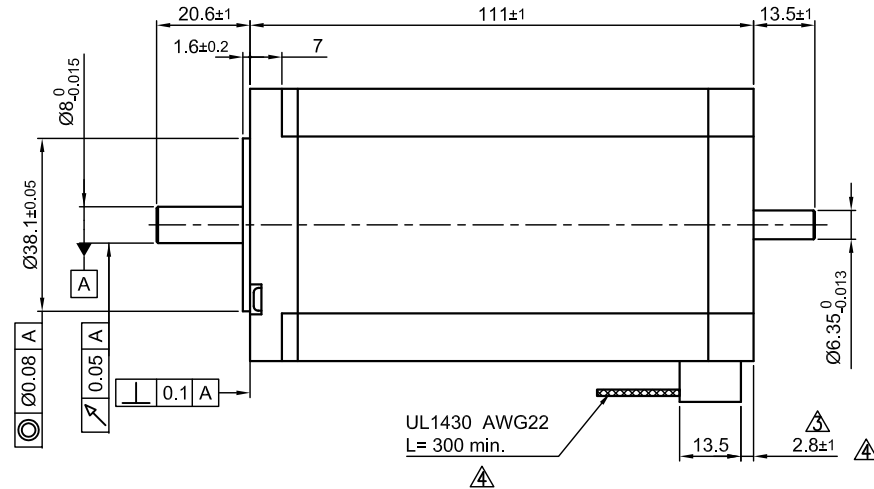


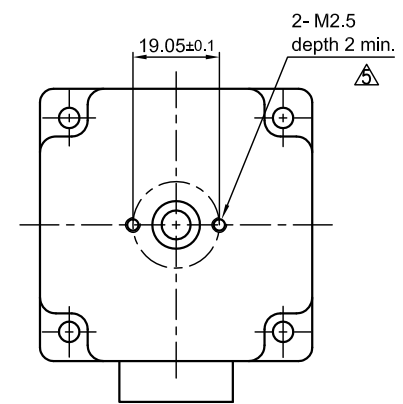
Front view and mounting



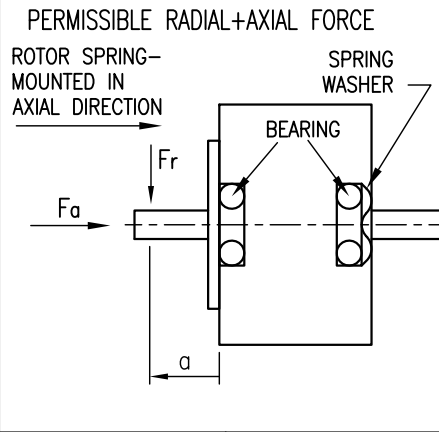
Side view



Rear view



SPECIFICATION	CONNECTION	UNIPOLAR OR BIPOLAR-1 WINDING	BIPOLAR	
			SERIES	PARALLEL
VOLTAGE (VDC)		3.38		
AMPS/PHASE		4.5	3.18	6.36
RESISTANCE/PHASE (Ohms)@25°C		0.75±15% Δ	1.5±15% Δ	0.375±15% Δ
INDUCTANCE/PHASE (mH) @1KHz		1.4±20%	5.6±20% Δ	1.4±20% Δ
HOLDING TORQUE (Nm) [lb-in]		2.83 [25.05]	4.0 [35.36]	4.0 [35.36]
DETENT TORQUE (Nm) [lb-in]		0.085 [0.752]		
STEP ANGLE (°)		1.8		
STEP ACCURACY (NON-ACCUM)		±5%		
ROTOR INERTIA (Kg-m ²) [lb-in ²]		1.1x10 ⁻⁴ [0.376]		
WEIGHT (Kg) [lb]		1.9 [2.2]		
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)				

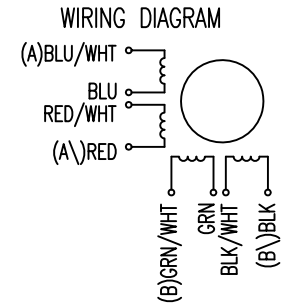


	AXIAL-FORCE Fa (N)			
	Fa=14			
DISTANCE a (mm)	5	10	15	20
RADIAL-FORCE Fr (N)	163	112	85	63
		AXIAL	RADIAL	
SHAFT PLAY (mm)		0.075	0.025	
AT LOAD MAX: (N)		10	5.0	

TYPE OF CONNECTION (EXTERN)				MOTOR	
UNIPOLAR	BIPOLAR			LEADS	WINDING
	1WINDING	SERIAL	PARALLEL		
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



5	change tolerance	08.11.16	A.S.	Nanotec PLUG & DRIVE			APVD	S.H.	04.05.10	STEPPING MOTOR
4	change tol. cable/rework draw	09.03.16	A.S.				CHKD			
3	CHANGE DIMENSION	17.01.13	A.S.	Surface specification DIN ISO 1302	General tolerances DIN ISO 2768- cH	Work piece edge DIN ISO 13715	DRN	J.W.	04.05.10	DWG.NO
REV	DESCRIPTION	DATE	DRN				SIGNATURE		DATE	