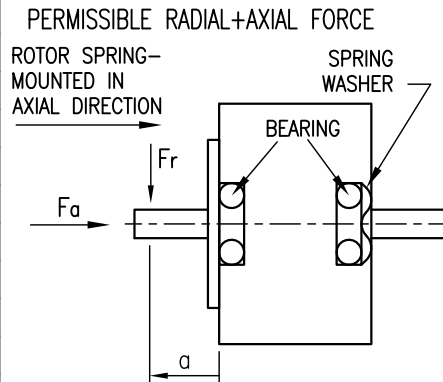


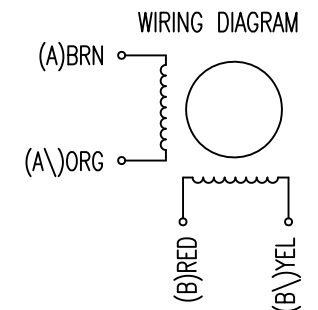
SPECIFICATION	CONNECTION	BIPOLAR
VOLTAGE (VDC)		9.6
AMPS/PHASE		0.4
RESISTANCE/PHASE (Ohms)@25°C		24±15%
INDUCTANCE/PHASE (mH) @1KHz		36±20%
HOLDING TORQUE (Nm) [lb-in]		0.17 [1.5]
DETENT TORQUE (Nm) [lb-in]		5.1x10 ⁻⁴ [4.51x10 ⁻³]
STEP ANGLE (°)		1.8
STEP ACCURACY (NON-ACCUM)		±5%
ROTOR INERTIA (Kg-m ²) [lb-in ²]		2.0x10 ⁻⁶ [6.83x10 ⁻⁴]
WEIGHT (Kg) [lb]		0.15 [0.33]



PIN NO	TYPE OF CONNECTION (EXTERN)		MOTOR	
	BIPOLAR	LEADS	WINDING	
1	A —	BRN	A	[Circuit diagram showing A and A\ windings]
2	A\ —	ORG	A\	
3	B —	RED	B	[Circuit diagram showing B and B\ windings]
4	B\ —	YEL	B\	

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

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



TEMPERATURE RISE: MAX.80°C (MOTOR STANDSTILL; FOR 2 PHASE ENERGIZED)	AXIAL-FORCE Fa (N)	Fa=7			
AMBIENT TEMPERATURE -10°~ 50°C [14°F ~ 122°F]	DISTANCE a (mm)	5	10	15	20
INSULATION RESISTANCE 100 MOhm (UNDER NORMAL TEMPERATURE AND HUMIDITY)	RADIAL-FORCE Fr (N)	58	36	26	20
INSULATION CLASS B 130° [266°F]		AXIAL		RADIAL	
DIELECTRIC STRENGTH 500VAC FOR 1 MIN. (BETWEEN THE MOTOR COILS AND THE MOTOR CASE)	SHAFT PLAY (mm)	0.08		0.02	
AMBIENT HUMIDITY MAX. 85% (NO CONDENSATION)	AT LOAD MAX: (N)	4.5		4.5	

4	rework draw/change depth M3	10.02.16	A.S.	 Nanotec [®] PLUG & DRIVE	APVD	S.R.	21.09.06	STEPPING MOTOR DWG.NO ST4118X0404-A	
3	VALUE OF BACK-EMF	20.06.11	LB		CHKD				
2	VALUE OF HOLDING TORQUE, NEW UL NO.	15.04.09	J.W.	Surface specification DIN ISO 1302	General tolerances DIN ISO 2768- cH	Work piece edge DIN ISO 13715	DRN	J.W.	21.09.06
REV	DESCRIPTION	DATE	DRN				SIGNATURE	DATE	