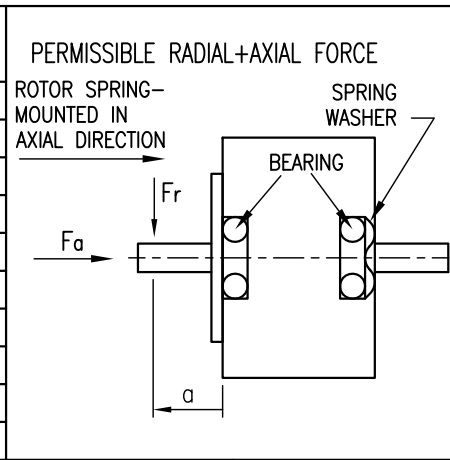


SPECIFICATION	CONNECTION	BIPOLAR
VOLTAGE (VDC)		2.8
AMPS/PHASE		1.4
RESISTANCE/PHASE (Ohms)@25°C		2.0±15%
INDUCTANCE/PHASE (mH) @1KHz		3±20%
HOLDING TORQUE (Nm) [lb-in]		0.2 [1.77]
DETENT TORQUE (Nm) [lb-in]		6.0x10 ⁻³ [5.31x10 ⁻²]
STEP ANGLE (°)		1.8
STEP ACCURACY (NON-ACCUM)		±5%
ROTOR INERTIA (Kg-m ²) [lb-in ²]		3.8x10 ⁻⁶ [1.31x10 ⁻²]
WEIGHT (Kg) [lb]		0.2 [0.44]

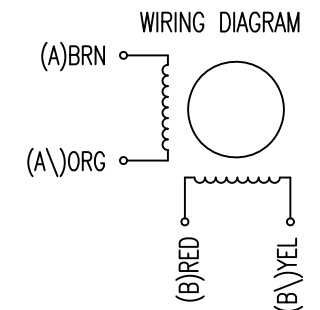


PIN NO	TYPE OF CONNECTION (EXTERN)		MOTOR	
	BIPOLAR	LEADS	WINDING	
1	A —	BRN	A	[Circuit diagram showing two coils in series]
2	A\ —	ORG	A\	
3	B —	RED	B	[Circuit diagram showing two coils in series]
4	B\ —	YEL	B\	

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	

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

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



5	change motor length	04.10.16	A.S.
4	change inductance	23.02.16	A.S.
3	rework draw/change depth M3	09.02.16	A.S.
REV	DESCRIPTION	DATE	DRN

Nanotec
PLUG & DRIVE

Surface specification DIN ISO 1302	General tolerances DIN ISO 2768- cH	Work piece edge DIN ISO 13715
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APVD	<i>S.Ha.</i>	26.02.07
CHKD		
DRN	<i>J.W.</i>	16.10.06
SIGNATURE	DATE	

STEPPING MOTOR

DWG.NO

ST4118S1404-A