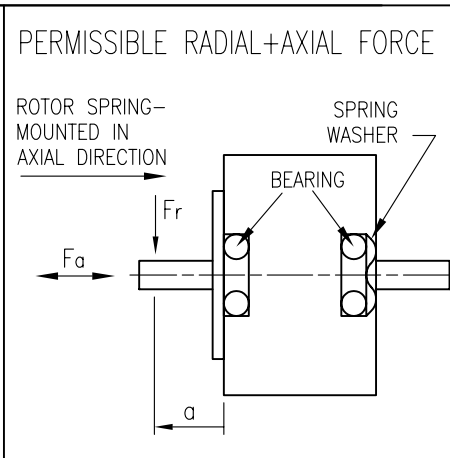
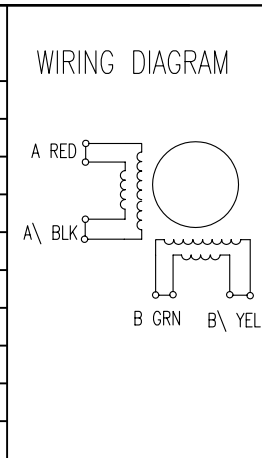


SPECIFICATION	CONNECTION	BIPOLAR PARALLEL
VOLTAGE (VDC)		2.18
AMPS/PHASE		9.5
RESISTANCE/PHASE (Ohms)@25°C		0.23±15%
INDUCTANCE/PHASE (mH) @1KHz		2.6±20%
HOLDING TORQUE (Nm) [lb-in]		5.94 [52.57]
DETENT TORQUE (Nm) [lb-in]		0.11 [0.9735]
STEP ANGLE (°) ± ACCURACY		1.8 ± 5% (NON-ACCUM)
BACK-EMF (V) (300 U/min.)		20.57
ROTOR INERTIA (Kg-m²) [lb-in²]		1.9x10 ⁻⁴ [0.649]
WEIGHT (Kg) [lb]		3.2 [7.05]



ENCODER M12	
Pin	Assignment
1	A
2	A\
3	B
4	B\
5	GND
6	I
7	I\
8	Vcc
HOUSING	GND/SHIELDING

MOTOR D-SUB-15	
Pin	Assignment
1	A
2	A
3	A\
4	A\
5	B
6	B
7	B\
8	B\
9	NC
10	NC
11	NC
12	NC
13	NC
14	NC
15	NC
HOUSING	GND/SHIELDING

	TEMPERATURE RISE: MAX.80°C (MOTOR STANDSTILL; FOR 2 PHASE ENERGIZED)		AXIAL-FORCE Fa (N)	
			Fa=65	
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)	535 355 256 200
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)	0.075 0.025
AMBIENT HUMIDITY	MAX. 85% (NO CONDENSATION)		AT LOAD MAX: (N)	10 5.0

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

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

REV	DESCRIPTION	DATE	APVD	NANOTEC:	SCALE	FREE	APVD	S.R.	DATE	DWG.NO
2	PIN VON N IN I UMBENNANT	24.09.07	J.W.	AD8918M9504-E	X	±0.5	CHKD		18.04.07	STEPPING MOTOR
1	WEIGHT	04.06.07	J.W.		1PL	±0.2	DRN	J.W.	18.04.07	
					2PL	±0.1				
					ANGLE	±30'	SIGNATURE		DATE	AD8918M9504-E