

SPECIFICATION	UNIPOLAR OR BIPOLAR-1 WINDING	BIPOLAR	
		SERIES	PARALLEL
AMPS/PHASE	2.0	1.41	2.82
RESISTANCE/PHASE (Ohms)@25°C	1.5±10%	3.0±10%	0.75±10%
INDUCTANCE/PHASE (mH) @1KHz	2.6±20%	10.4±20%	2.6±20%
SPINDLE PITCH (mm) [in]	2 [0.078]		
THRUST (N) (lbf)	800 [180]	▲ ▲	
RESOLUTION (mm/FULLSTEP)	0.01		
STATIC THRUST (NO CURRENT)	>800	▲ ▲	
MAX. SPEED (mm/sec.) at 48V	70	▲ ▲	
MAX. SPEED WITH MAX. THRUST (mm/sec.)	20	▲	
WEIGHT (Kg) [lb]	0.8 [1.76]		
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)			

Please regard the application note at www.nanotec.com for further informations.

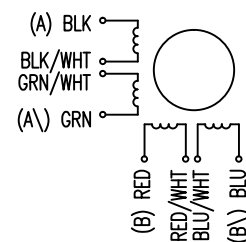
Shaft play is adjustable at the motor.

UNIPOLAR	TYPE OF CONNECTION (EXTERN)			MOTOR		
	1WINDING	BIPOLAR SERIAL	PARALLEL	CONNECTOR PIN NO.	LEADS	WINDING
A —	A —	A —	A —	1	BLK	A
COM —	A —	COM —	COM —	3	BLK/WHT	
A\ —	B —	A\ —	A\ —	2	GRN/WHT	A\
B —	B —	B —	B —	4	GRN	B
COM —	B —	COM —	COM —	5	RED	
B\ —	B —	B\ —	B\ —	7	RED/WHT	B\
				6	BLU/WHT	
				8	BLU	

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

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

WIRING DIAGRAM



4	3-M2 DEPTH	14.08.15	GYQ
3	B-SHAFT TOLERANCE+MOUNTING HOLE	28.04.15	GYQ
2	UPDT. DATA	13.11.14	GYQ
REV	DESCRIPTION	DATE	APVD

Nanotec
PLUG & DRIVE

L5918S2008-T10x2-A25

SCALE	FREE
X	±0.5
1PL	±0.2
2PL	±0.1
ANGLE	±30'

APVD	G.S.	13.11.14
CHKD	ZYL	24.05.10
DRN	GYQ	24.05.10
SIGNATURE	DATE	

LINEAR AKTUATOR

DWG.NO

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