

SPECIFICATION	CONNECTION	BIPOLAR
VOLTAGE (VDC)		1.98
AMPS/PHASE		1.8
RESISTANCE/PHASE (Ohms)@25°C		1.1±15%
INDUCTANCE/PHASE (mH) @1KHz		1.85±20%
HOLDING TORQUE (Nm) [lb-in]		0.28 [2.47]
DETENT TORQUE (Nm) [lb-in]		9.8x10 <sup>-3</sup> [8.673x10 <sup>-2</sup> ]
STEP ANGLE (°)		1.8
STEP ACCURACY (NON-ACCUM)		±5%
ROTOR INERTIA (Kg-m <sup>2</sup> ) [lb-in <sup>2</sup> ]		5.7x10 <sup>-6</sup> [1.95x10 <sup>-2</sup> ]
WEIGHT (Kg) [lb]		0.24 [0.529]
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)		

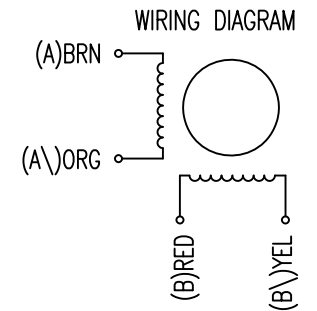
Please regard the application notes at [www.nanotec.com](http://www.nanotec.com) for further informations.

Shaft play is adjustable at the motor.

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\	

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

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



REV	DESCRIPTION	DATE	DRN
02	ADD RUNOUT	05.07.18	X T
01	THE NEW SIZE	31.08.16	B.L.



ST4118M1804-L

SCALE	FREE	APVD	G.S.	18.10.12
X	±0.5	CHKD	GYQ	18.10.12
1PL	±0.2	DRN	L B	18.10.12
2PL	±0.1	SIGNATURE		DATE
ANGLE	±30'			

STEPPING MOTOR

DWG.NO

ST4118M1804-L