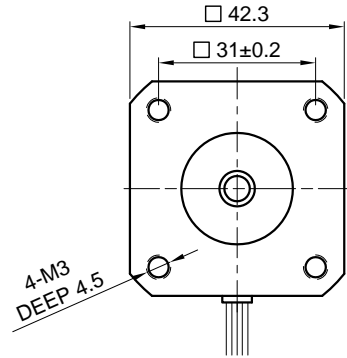
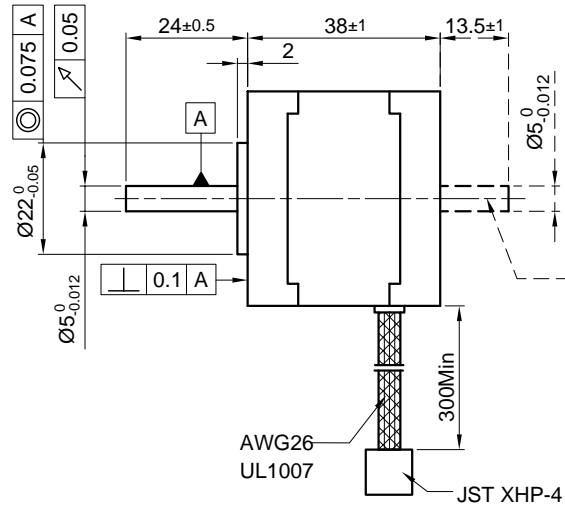


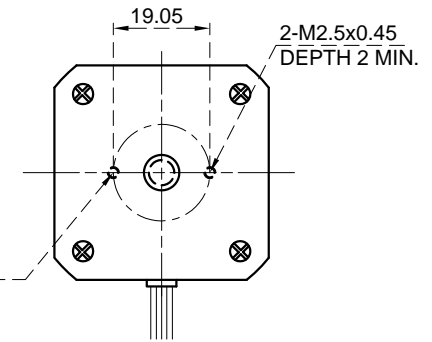
Front view and mounting



Side view



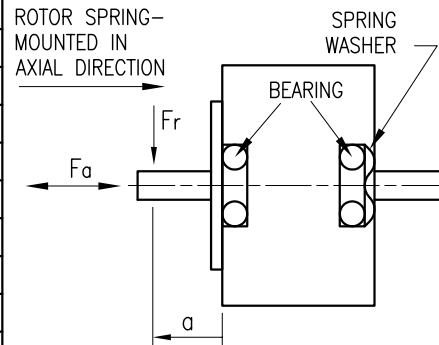
Rear view



(only for type ST4118M1804-B Ready for encoder + driver mount)

SPECIFICATION	CONNECTION	BIPOLAR
VOLTAGE (VDC)		2.0
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 [2.478]
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)		

PERMISSIBLE RADIAL+AXIAL FORCE

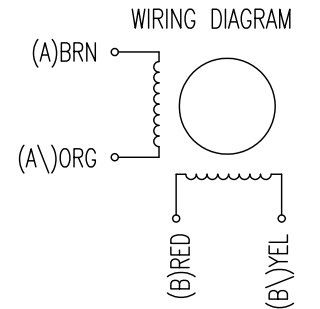


AXIAL-FORCE Fa (N)	Fa=7			
DISTANCE a (mm)	5	10	15	20
RADIAL-FORCE Fr (N)	58	36	26	20
		AXIAL	RADIAL	
SHAFT PLAY (mm)		0.08	0.02	
AT LOAD MAX: (N)		4.5	4.5	

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
1	+	+	-	-	[Circuit diagram showing current flow]	↑
2	-	+	+	-		
3	-	-	+	+	[Circuit diagram showing current flow]	↓
4	+	-	-	+		



NANOTEC:				SCALE FREE	APVD	J.H.a.	26.02.07	STEPPING MOTOR
ST4118M1804				X ±0.5	CHKD			
				1PL ±0.2	DRN	J.W.	30.11.06	DWG.NO
REV	DESCRIPTION	DATE	APVD	2PL ±0.1	SIGNATURE		DATE	ST4118M1804
				ANGLE ±30'				