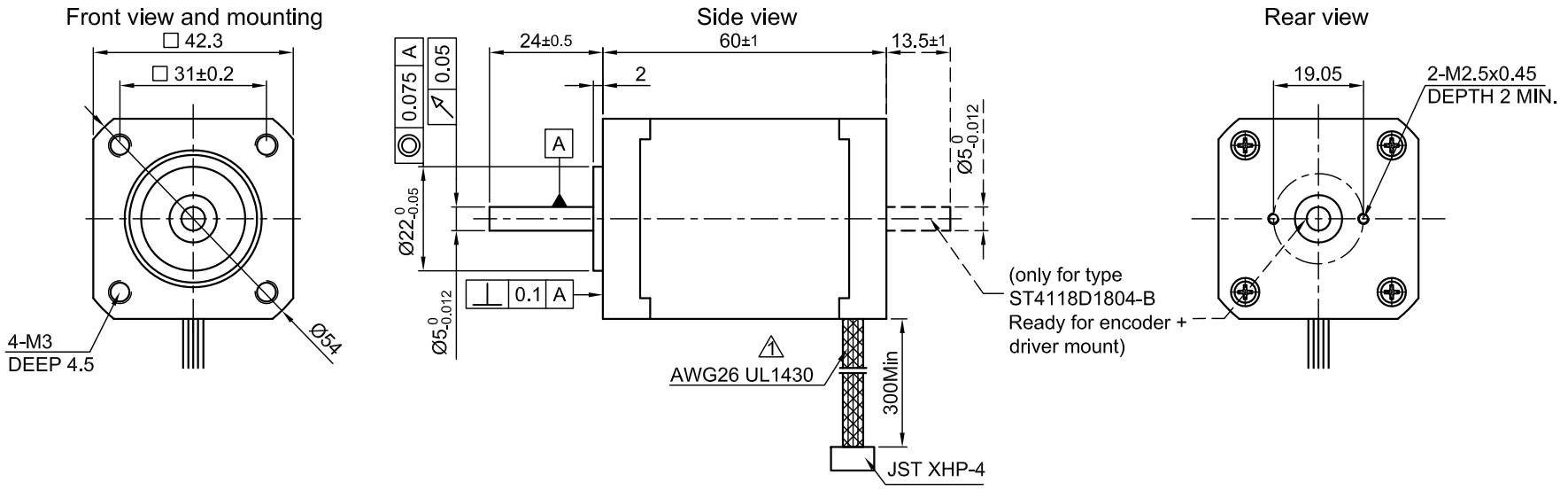
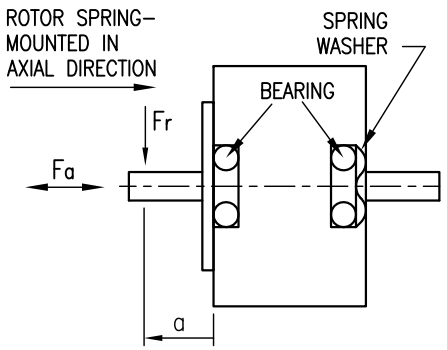


SPECIFICATION \ CONNECTION	BIPOLAR
VOLTAGE (VDC)	5.4
AMPS/PHASE	1.8
RESISTANCE/PHASE (Ohms)@25°C	3.0±15%
INDUCTANCE/PHASE (mH) @1KHz	7.0±20%
HOLDING TORQUE (Nm) [lb-in]	0.8 [7.08] ⚠1
DETENT TORQUE (Nm) [lb-in]	$2.8X10^{-2}$ [0.25]
STEP ANGLE (°)	1.8
STEP ACCURACY (NON-ACCUM)	±5%
ROTOR INERTIA ($Kg-m^2$) [$lb-in^2$]	$1.02x10^{-5}$ [$3.48x10^{-2}$]
WEIGHT (Kg) [lb]	0.5 [1.1]

PERMISSIBLE RADIAL+AXIAL FORCE



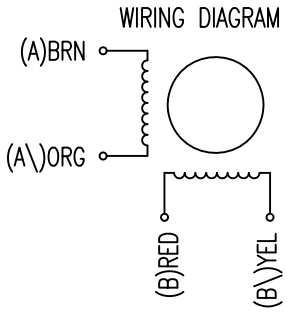
AXIAL-FORCE Fa (N)	Fa=7				
DISTANCE a (mm)	5	10	15	20	
RADIAL-FORCE Fr (N)	58	36	26	20	
	AXIAL		RADIAL		
SHAFT PLAY (mm)	0.08		0.02		
AT LOAD MAX: (N)	4.5		4.5		

TYPE OF CONNECTION (EXTERN)		MOTOR	
PIN NO	BIPOLAR	LEADS	WINDING
1	A	BRN	A
2	A\	ORG	A\
3	B	RED	B
4	B\	YEL	B\

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

STEP	A	B	A\	B\		CCW
1	+	+	−	−		
2	−	+	+	−		
3	−	−	+	+		
4	+	−	−	+	CW	

WIRING DIAGRAM



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)

REV	DESCRIPTION	DATE	APVD
1	UL NO. AND HOLDING TORQUE	17.09.08	J.W.

Nanotec® PLUG & DRIVE

ST4118D1804

SCALE FREE		APVD	S.Ha.	04.07.07
X	±0.5	CHKD		
1PL	±0.2	DRN	J.W.	04.07.07
2PL	±0.1	SIGNATURE		DATE
ANGLE	±30'			

STEPPING MOTOR

DWG.NO
ST4118D1804