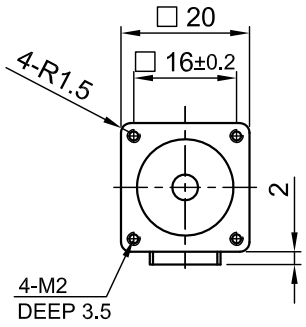
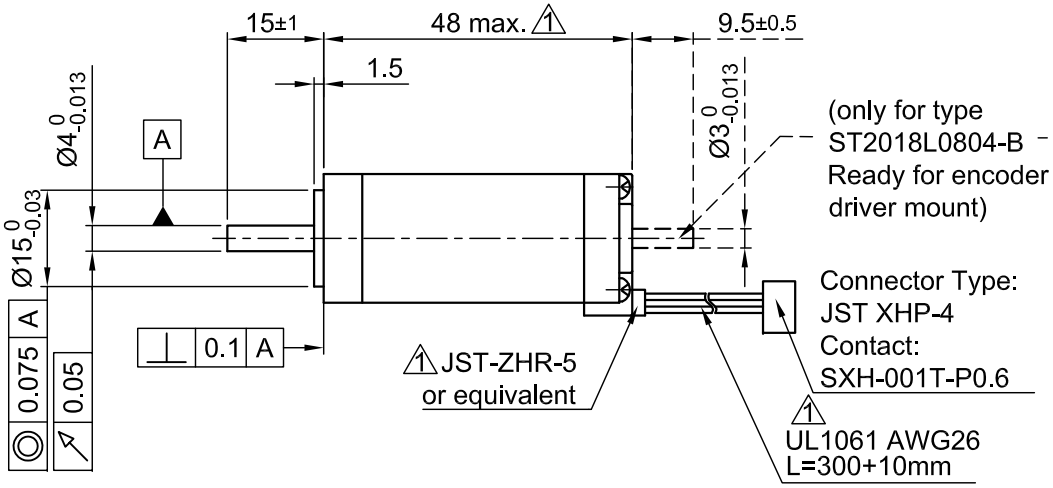
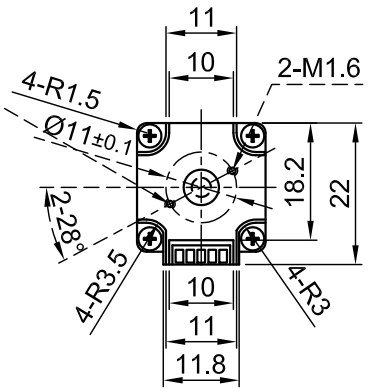
Front view and mounting



Side view

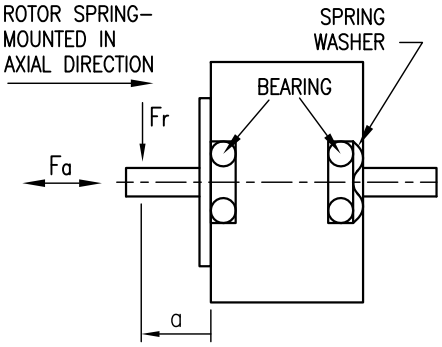


Rear view



SPECIFICATION \ CONNECTION	BIPOLAR
VOLTAGE (VDC)	4.8
AMPS/PHASE	0.8
RESISTANCE/PHASE (Ohms)@25°C	6.0±15%
INDUCTANCE/PHASE (mH) @1KHz	2.2±20%
HOLDING TORQUE (Nm) [lb-in]	0.036 [0.319]
DETENT TORQUE (Nm) [lb-in]	1.08×10^{-3} [9.57×10^{-3}]
STEP ANGLE (°)	1.8
STEP ACCURACY (NON-ACCUM)	±5%
ROTOR INERTIA (Kg-m^2) [lb-in^2]	2.3×10^{-7} [7.861×10^{-4}]
WEIGHT (Kg) [lb]	0.09 [0.198]

PERMISSIBLE RADIAL+AXIAL FORCE



AXIAL-FORCE Fa (N)	Fa=4			
DISTANCE a (mm)	5	10	15	20
RADIAL-FORCE Fr (N)	30	18	14	8

	AXIAL	RADIAL
SHAFT PLAY (mm)	0.075	0.025
AT LOAD MAX: (N)	10	5.0

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)

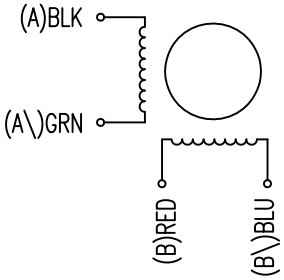
AMBIENT HUMIDITY MAX. 85% (NO CONDENSATION)

TYPE OF CONNECTION (EXTERN)	MOTOR		
BIPOLAR	CONNECTOR PIN NO.	LEADS	WINDING
A —	1	BLK	A
A\ —	2	GRN	A\
B —	3	RED	B
B\ —	4	BLU	B\

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

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

WIRING DIAGRAM



REV	DESCRIPTION	DATE	APVD
1	CONNECTOR TYPE+UL NO.+LENGTH	08.01.09	J.W.

Nanotec® PLUG & DRIVE

ST2018L0804

SCALE FREE		APVD	S.K.	02.06.06
X	±0.5	CHKD		
1PL	±0.2	DRN	J.W.	02.06.06
2PL	±0.1	SIGNATURE		DATE
ANGLE	±30'			

STEPPING MOTOR

DWG.NO

ST2018L0804