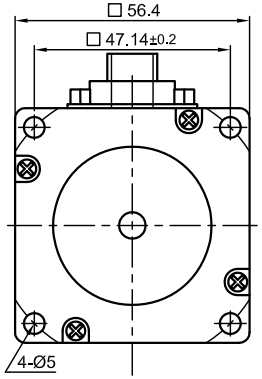
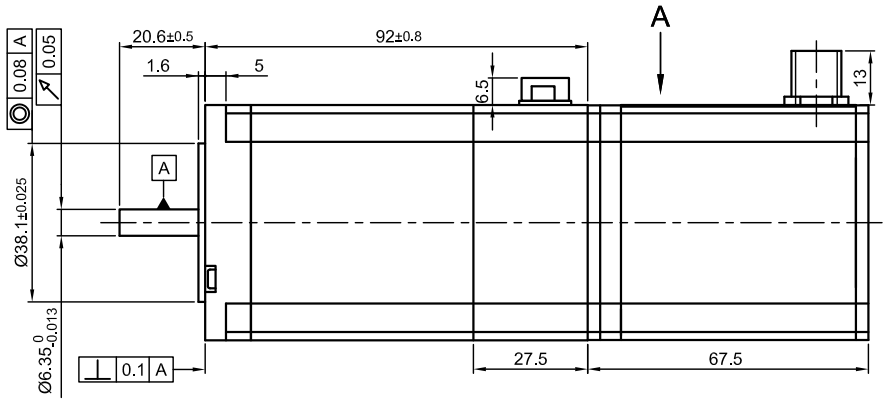
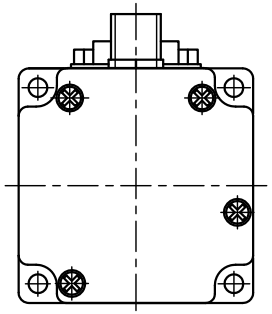
Front view and mounting



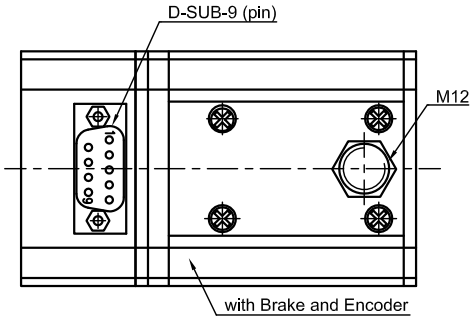
Side view



Rear view

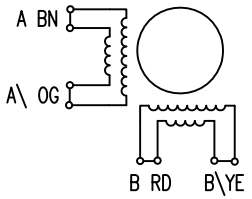


Top view A

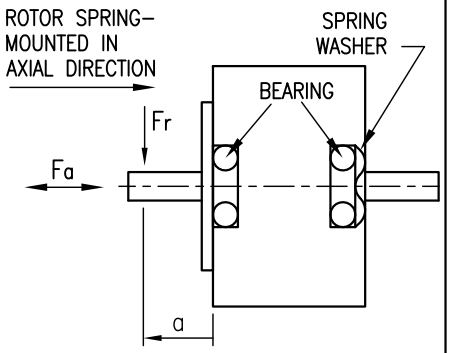


SPECIFICATION \ CONNECTION	BIPOLAR PARALLEL
VOLTAGE (VDC)	1.6
AMPS/PHASE	6.4
RESISTANCE/PHASE (Ohms)@25°C	0.25±10%
INDUCTANCE/PHASE (mH) @1KHz	0.95±20%
HOLDING TORQUE (Nm) [lb-in]	1.84 [16.28]
DETENT TORQUE (Nm) [lb-in]	0.068 [0.602]
STEP ANGLE (°) ± ACCURACY	1.8±5% (NON-ACCUM)
BACK-EMF (V) (300 U/min)	7.65
ROTOR INERTIA (Kg-m²) [lb-in²]	5.0x10⁻⁵ [0.171] ⚠1
WEIGHT (Kg) [lb]	1.38 [3.04] ⚠1

WIRING DIAGRAM ⚠2



PERMISSIBLE RADIAL+AXIAL FORCE



AXIAL-FORCE Fa (N)	Fa=15			
DISTANCE a (mm)	5	10	15	20
RADIAL-FORCE Fr (N)	130	90	70	52

	AXIAL	RADIAL
SHAFT PLAY (mm)	0.08	0.02
AT LOAD MAX: (N)	4.5	4.5

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)

ENCODER M12		CABLE ⚠4
PIN	ASSIGNMENT	COLOR
1	A	WH
2	A\	BN
3	B	GN
4	B\	YE
5	GND 0V	GY
6	I ⚠3	PK
7	I\ ⚠3	BU
8	Vcc +5V	RD
HOUSING	GND/SHIELDING	

MOTOR D-SUB-9	
PIN	ASSIGNMENT
1	A
2	A\
3	B
4	B\
5	NC
6	NC
7	BRAKE
8	BRAKE/GND
9	NC
HOUSING	GND/SHIELDING

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

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

REV	DESCRIPTION	DATE	APVD
3	PIN N RENAME AS I	24.09.07	J.W.
2	WIRING DIAGRAM	12.06.07	J.W.
4	COLOR OF CABLE	09.07.09	J.W.

Nanotec® PLUG & DRIVE

AD5918L6404-EB

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

APVD	S.Ha.	23.01.07
CHKD		
DRN	J.W.	22.01.07
SIGNATURE		DATE

STEPPING MOTOR

DWG.NO AD5918L6404-EB