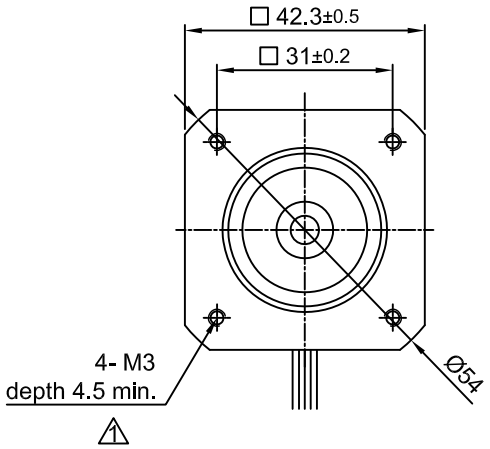
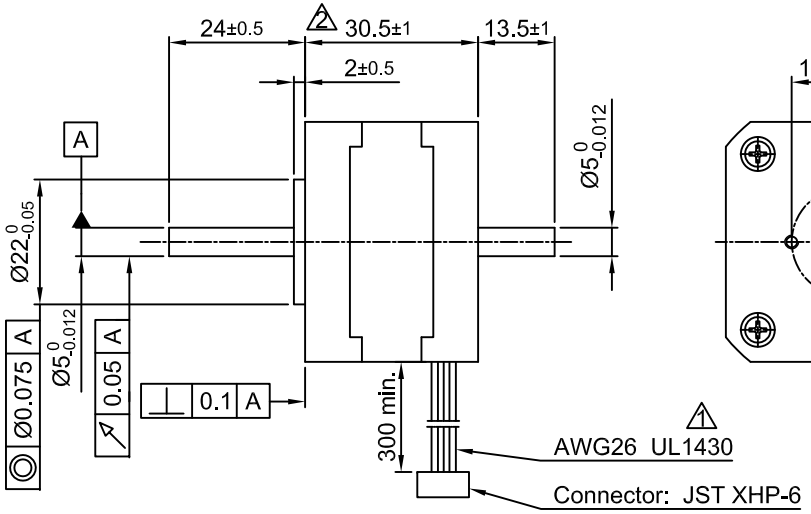
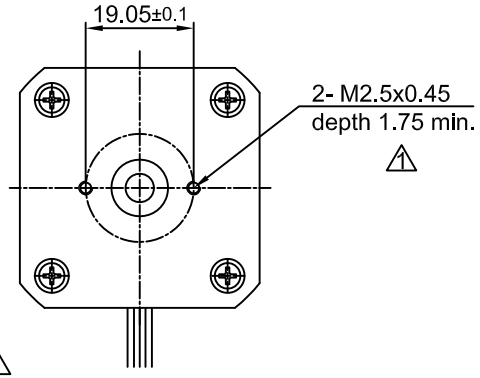
Front view and mounting



Side view

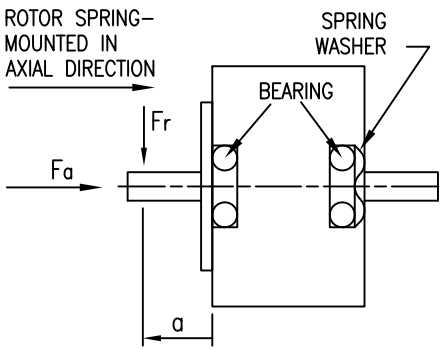


Rear view



SPECIFICATION \ CONNECTION	UNIPOLAR OR BIPOLAR-1 WINDING	BIPOLAR SERIAL
VOLTAGE (VDC)	16.5	24.0
AMPS/PHASE	0.22	0.16
RESISTANCE/PHASE (Ohms)@25°C	75±15%	150±15%
INDUCTANCE/PHASE (mH) @1KHz	53±20%	212±20%
HOLDING TORQUE (Nm) [lb-in]	0.15 [1.328]	0.212 [1.876]
DETENT TORQUE (Nm) [lb-in]	$5.9x10^{-3}$ [$5.222x10^{-2}$]	
STEP ANGLE (°)	1.8	
STEP ACCURACY (NON-ACCUM)	±5%	
ROTOR INERTIA (Kg-m^2) [lb-in^2]	$3.8x10^{-6}$ [$1.3x10^{-2}$]	
WEIGHT (Kg) [lb]	0.2 [0.44]	
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

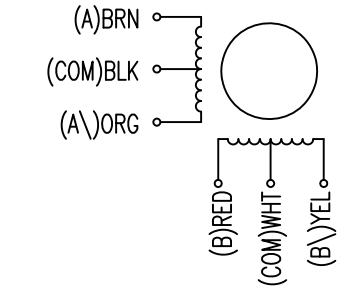
TYPE OF CONNECTION (EXTERN)			MOTOR		
UNIPOLAR	BIPOLAR 1WINDING	BIPOLAR SERIAL	CONNECTOR PIN NO.	LEADS	WINDING
A	A	A	1	BRN	A
COM	COM		5	BLK	COM
A\		A\	3	ORG	A\
B	B	B	2	RED	B
COM	COM		6	WHT	COM
B\		B\	4	YEL	B\

for >speed
for <speed

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

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

WIRING DIAGRAM



REV	DESCRIPTION	DATE	DRN
2	change motor length	04.10.16	A.S.
1	rework draw/change depth M2.5/M3/UL	09.02.16	A.S.

Nanotec® PLUG & DRIVE

Surface specification DIN ISO 1302	General tolerances DIN ISO 2768- cH	Work piece edge DIN ISO 13715	

APVD	S.Ha.	26.02.07	
CHKD			
DRN	J.W.	29.11.06	
SIGNATURE		DATE	

STEPPING MOTOR

DWG.NO ST4118S0206-B