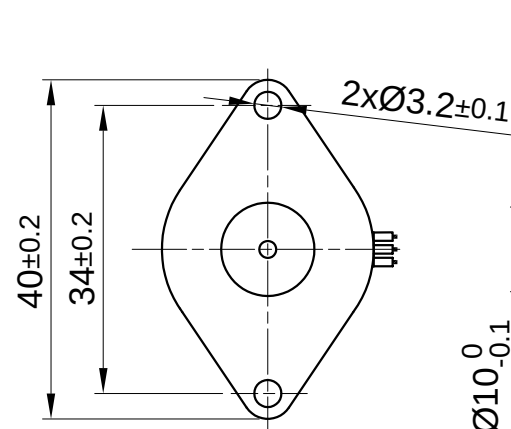
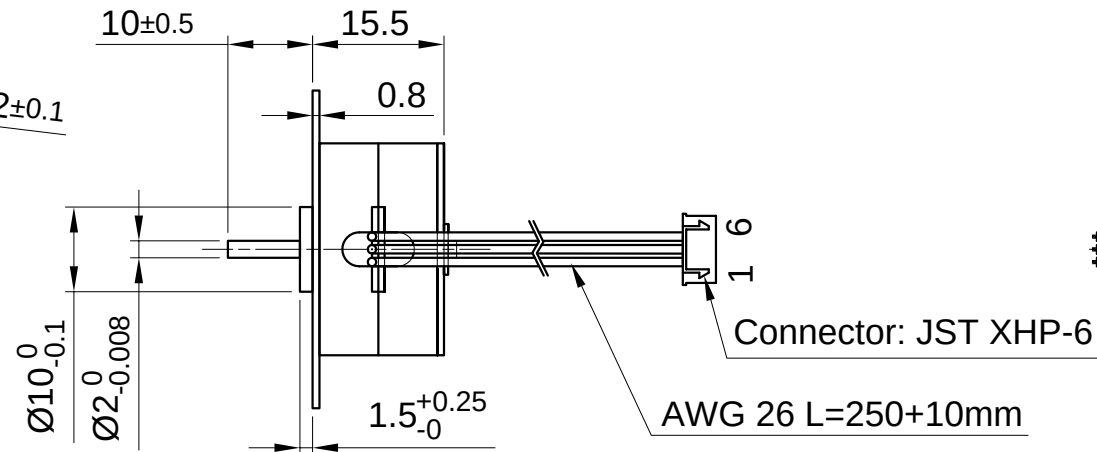


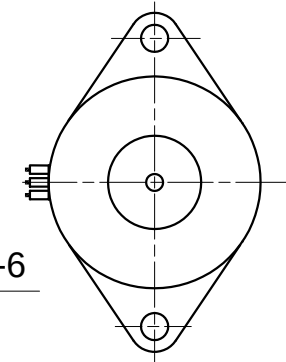
Front view and mounting

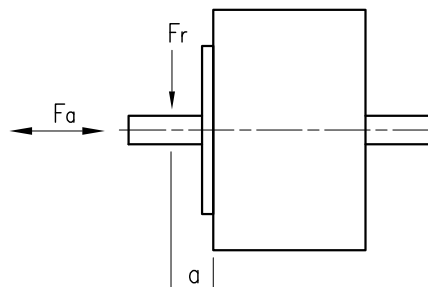


Side view



Rear view



SPECIFICATION		CONNECTION	UNIPOLAR OR BIPOLAR-1 WINDING	BIPOLAR SERIAL	PERMISSIBLE RADIAL+AXIAL FORCE				
VOLTAGE (VDC)			12	17					
AMPS/PHASE			0.24	0.17					
RESISTANCE/PHASE (Ohms)@25°C			50±10%	100±10%					
INDUCTANCE/PHASE (mH) @1KHz			16±20%	64±20%					
HOLDING TORQUE (Nm) [lb-in]			0.016 [0.142]	0.023 [0.2]					
DETENT TORQUE (Nm) [lb-in]			4.0x10 ⁻³ [0.035]						
STEP ANGLE (°)			7.5						
STEP ACCURACY (NON-ACCUM)			±8%						
ROTOR INERTIA (Kg-m ²) [lb-in ²]			1x10 ⁻⁷ [3.416x10 ⁻⁴]						
WEIGHT (Kg) [lb]			0.036 [0.079]						
TEMPERATURE RISE: MAX.80°C (MOTOR STANDSTILL; FOR 2 PHASE ENERGIZED)					AXIAL-FORCE Fa (N)	Fa=1.5			
AMBIENT TEMPERATURE -20~ 50°C [-4°F ~ 122°F]					DISTANCE a (mm)	1/2 SCHAFTLENGTH			
INSULATION RESISTANCE 100 MOhm (UNDER NORMAL TEMPERATURE AND HUMIDITY)					RADIAL-FORCE Fr (N)	Fr=3.0			
INSULATION CLASS B 130° [266°F]						AXIAL	RADIAL		
DIELECTRIC STRENGTH 500VAC FOR 1 MIN. (BETWEEN THE MOTOR COILS AND THE MOTOR CASE)					SHAFT PLAY (mm)	0.08	0.06		
AMBIENT HUMIDITY MAX. 85% (NO CONDENSATION)					AT LOAD MAX: (N)	4.5	4.5		
				NANOTEC:	SCALE FREE	APVD	S.Hα.	12.03.07	STEPPING MOTOR
				SP2575M0206-A	X ±0.5	CHKD			
					1PL ±0.2	DRN	J.W.	08.11.06	DWG.NO
REV	DESCRIPTION	DATE	APVD		2PL ±0.1	SIGNATURE		DATE	SP2575M0206-A
					ANGLE ±30'				

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

WIRING DIAGRAM

(A)WHT
(COM)BLK
(A\))RED

(B)BLU
(COM)BRN
(B\))YEL

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

for >speed ←
for <speed ←

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

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

WIRING DIAGRAM

