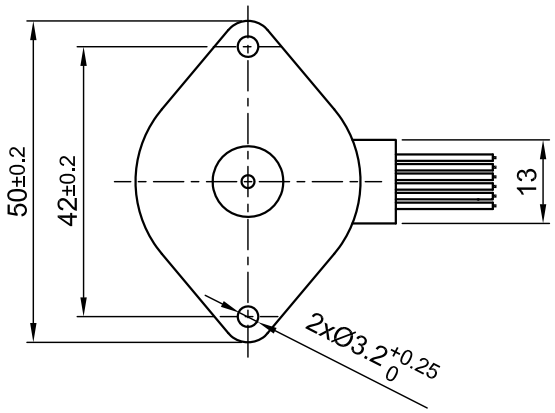
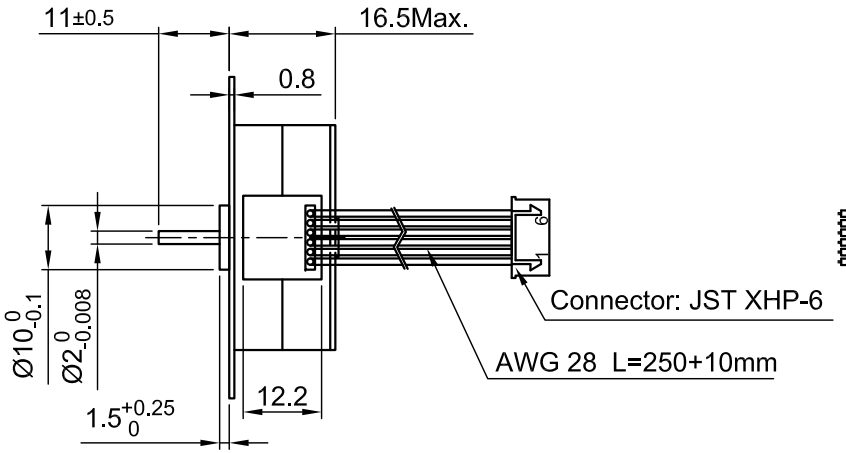
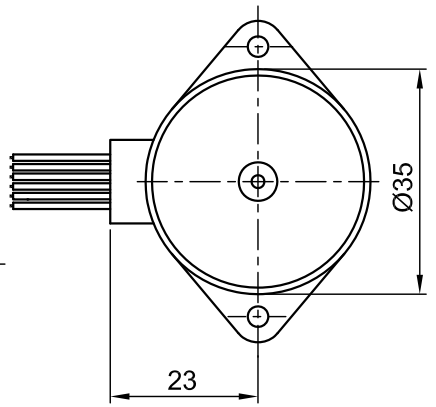
Front view and mounting



Side view

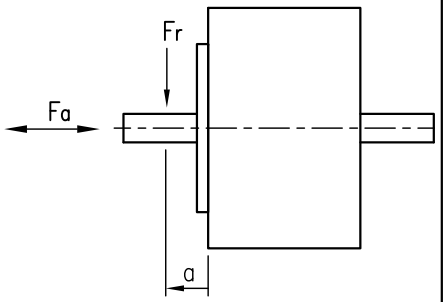


Rear view



SPECIFICATION \ CONNECTION	UNIPOLAR OR BIPOLAR-1 WINDING	BIPOLAR SERIAL
VOLTAGE (VDC)	5.0	7.0
AMPS/PHASE	0.5	0.35 (2)
RESISTANCE/PHASE (Ohms)@25°C	10±10% (1)	20±10%
INDUCTANCE/PHASE (mH) @1KHz	3.8±20% (3)	15.2±20% (3)
HOLDING TORQUE (Nm) [lb-in]	0.04 [0.354] (1)	0.057 [0.504]
DETENT TORQUE (Nm) [lb-in]	$7.0x10^{-4}$ [0.06] (2)	
STEP ANGLE (°)	7.5	
STEP ACCURACY (NON-ACCUM)	±7%	
ROTOR INERTIA ($Kg-m^2$) [$lb-in^2$]	$5.0x10^{-7}$ [$1.708x10^{-3}$] (2)	
WEIGHT (Kg) [lb]	0.09 [0.198]	

PERMISSIBLE RADIAL+AXIAL FORCE



AXIAL-FORCE Fa (N)	Fa=1.5	
DISTANCE a (mm)	1/2 SCHAFTLENGTH	
RADIAL-FORCE Fr (N)	Fr=3.0	
	AXIAL	RADIAL
SHAFT PLAY (mm)	0.08	0.06
AT LOAD MAX: (N)	4.5	4.5

TEMPERATURE RISE: MAX.80°C (MOTOR STANDSTILL; FOR 2 PHASE ENERGIZED)

AMBIENT TEMPERATURE -20°~ 50°C [-4°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)

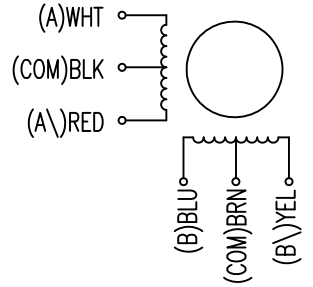
TYPE OF CONNECTION (EXTERN)			MOTOR		
UNIPOLAR	BIPOLAR 1WINDING	BIPOLAR SERIAL	CONNECTOR PIN NO.	LEADS	WINDING
A	A	A	1	WHT	A
COM	COM		5	BLK	COM
A\		A\	3	RED	A\
B	B	B	2	BLU	B
COM	COM		6	BRN	COM
B\		B\	4	YEL	B\

for >speed
for <speed

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

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

WIRING DIAGRAM



REV	DESCRIPTION	DATE	APVD
3	VALUE OF INDUCTANCE	24.04.09	J.W.
2	VALUE OF R.INERTIA+CURRENT+D.TORQUE	10.09.07	J.W.
1	VALUE OF HOLDING TORQUE+RESISTANCE	28.06.07	J.W.

Nanotec® PLUG & DRIVE

SP3575S0506-A

SCALE FREE		APVD	S.Ha.	12.03.07
X	±0.5	CHKD		
1PL	±0.2	DRN	J.W.	23.11.06
2PL	±0.1	SIGNATURE		DATE
ANGLE	±30'			

STEPPING MOTOR

DWG.NO SP3575S0506-A