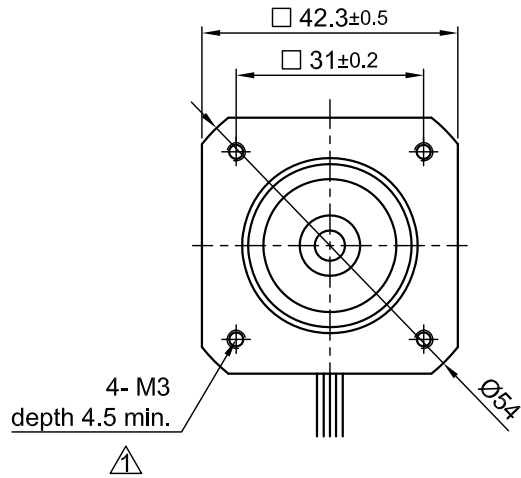
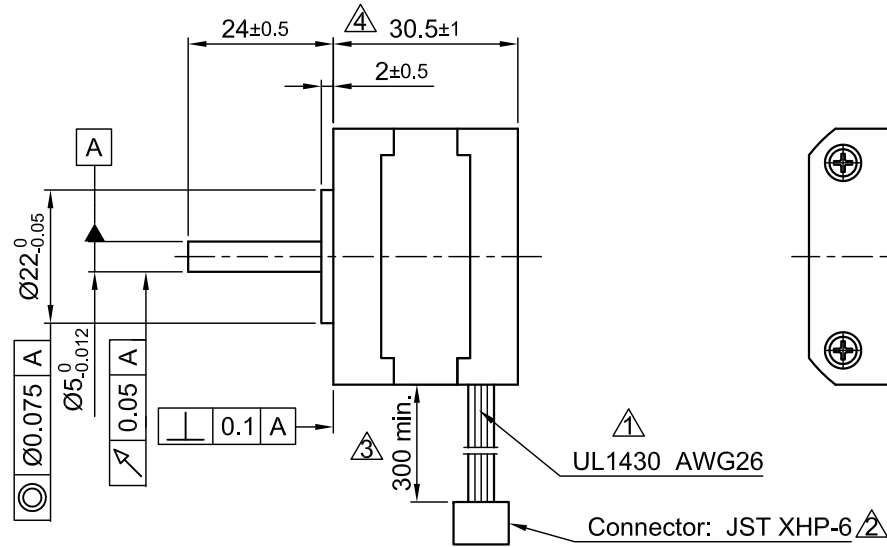


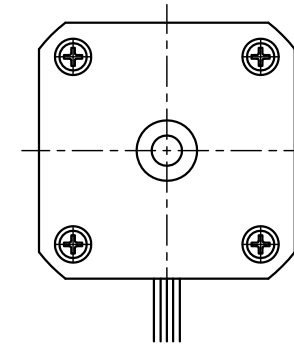
Front view and mounting



Side view



Rear view



SPECIFICATION	CONNECTION		PERMISSIBLE RADIAL+AXIAL FORCE		TYPE OF CONNECTION (EXTERN)		MOTOR																																											
	UNIPOLAR OR BIPOLAR-1 WINDING	BIPOLAR SERIAL	ROTOR SPRING-MOUNTED IN AXIAL DIRECTION				UNIPOLAR	BIPOLAR		CONNECTOR PIN NO.	LEADS	WINDING																																						
VOLTAGE (VDC)	10.5	15.0					A	A	A	1	BRN	A																																						
AMPS/PHASE	0.35	0.25					COM	COM	5	BLK	COM																																							
RESISTANCE/PHASE (Ohms)@25°C	30±15%	60±15%					A\	A\	3	ORG	A\																																							
INDUCTANCE/PHASE (mH) @1KHz	21.7±20%	86.8±20%					B	B	2	RED	B																																							
HOLDING TORQUE (Nm) [lb-in]	0.16 [1.416]	0.226 [2.0]					COM	COM	6	WHT	COM																																							
DETENT TORQUE (Nm) [lb-in]	5.9x10 ⁻³ [5.222x10 ⁻²]						B\	B\	4	YEL	B\																																							
STEP ANGLE (°)	1.8						<p>for >speed ←</p> <p>for <speed ←</p>																																											
STEP ACCURACY (NON-ACCUM)	±5%						<p>FULL STEP 2 PHASE-Ex., WHEN FACING MOUNTING END (X)</p> <table border="1"> <thead> <tr> <th>STEP</th> <th>A</th> <th>B</th> <th>A\</th> <th>B\</th> <th>CCW</th> <th>CW</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>+</td> <td>+</td> <td>-</td> <td>-</td> <td>↓</td> <td>↑</td> </tr> <tr> <td>2</td> <td>-</td> <td>+</td> <td>+</td> <td>-</td> <td>↓</td> <td>↑</td> </tr> <tr> <td>3</td> <td>-</td> <td>-</td> <td>+</td> <td>+</td> <td>↓</td> <td>↑</td> </tr> <tr> <td>4</td> <td>+</td> <td>-</td> <td>-</td> <td>+</td> <td>↓</td> <td>↑</td> </tr> </tbody> </table>									STEP	A	B	A\	B\	CCW	CW	1	+	+	-	-	↓	↑	2	-	+	+	-	↓	↑	3	-	-	+	+	↓	↑	4	+	-	-	+	↓	↑
STEP	A	B					A\	B\	CCW	CW																																								
1	+	+					-	-	↓	↑																																								
2	-	+	+	-	↓	↑																																												
3	-	-	+	+	↓	↑																																												
4	+	-	-	+	↓	↑																																												
ROTOR INERTIA (Kg-m ²) [lb-in ²]	3.8x10 ⁻⁶ [1.3x10 ⁻³]		<p>WIRING DIAGRAM</p>																																															
WEIGHT (Kg) [lb]	0.2 [0.44]		<table border="1"> <thead> <tr> <th>AXIAL-FORCE Fa (N)</th> <th colspan="4">Fa=7</th> </tr> <tr> <th>DISTANCE a (mm)</th> <th>5</th> <th>10</th> <th>15</th> <th>20</th> </tr> </thead> <tbody> <tr> <td>RADIAL-FORCE Fr (N)</td> <td>58</td> <td>36</td> <td>26</td> <td>20</td> </tr> <tr> <td rowspan="2">SHAFT PLAY (mm)</td> <td colspan="2">AXIAL</td> <td colspan="2">RADIAL</td> </tr> <tr> <td colspan="2">0.08</td> <td colspan="2">0.02</td> </tr> <tr> <td>AT LOAD MAX: (N)</td> <td colspan="2">4.5</td> <td colspan="2">4.5</td> </tr> </tbody> </table>									AXIAL-FORCE Fa (N)	Fa=7				DISTANCE a (mm)	5	10	15	20	RADIAL-FORCE Fr (N)	58	36	26	20	SHAFT PLAY (mm)	AXIAL		RADIAL		0.08		0.02		AT LOAD MAX: (N)	4.5		4.5											
AXIAL-FORCE Fa (N)	Fa=7																																																	
DISTANCE a (mm)	5	10	15	20																																														
RADIAL-FORCE Fr (N)	58	36	26	20																																														
SHAFT PLAY (mm)	AXIAL		RADIAL																																															
	0.08		0.02																																															
AT LOAD MAX: (N)	4.5		4.5																																															
TEMPERATURE RISE: MAX.80°C (MOTOR STANDSTILL; FOR 2 PHASE ENERGIZED)			<table border="1"> <thead> <tr> <th>INSULATION RESISTANCE 100 MOhm (UNDER NORMAL TEMPERATURE AND HUMIDITY)</th> <th colspan="2">AXIAL</th> <th colspan="2">RADIAL</th> </tr> </thead> <tbody> <tr> <td>INSULATION CLASS B 130° [266°F]</td> <td colspan="2">0.08</td> <td colspan="2">0.02</td> </tr> </tbody> </table>									INSULATION RESISTANCE 100 MOhm (UNDER NORMAL TEMPERATURE AND HUMIDITY)	AXIAL		RADIAL		INSULATION CLASS B 130° [266°F]	0.08		0.02																														
INSULATION RESISTANCE 100 MOhm (UNDER NORMAL TEMPERATURE AND HUMIDITY)	AXIAL		RADIAL																																															
INSULATION CLASS B 130° [266°F]	0.08		0.02																																															
DIELECTRIC STRENGTH 500VAC FOR 1 MIN. (BETWEEN THE MOTOR COILS AND THE MOTOR CASE)			<table border="1"> <thead> <tr> <th>APVD</th> <th>S.Ha.</th> <th>26.02.07</th> <th colspan="3">STEPPING MOTOR</th> </tr> </thead> <tbody> <tr> <td>AMBIENT HUMIDITY MAX. 85% (NO CONDENSATION)</td> <td colspan="2"></td> <td colspan="3">DWG.NO</td> </tr> <tr> <td>4 change motor length</td> <td>04.10.16</td> <td>A.S.</td> <td colspan="3">ST4118S0406-A</td> </tr> <tr> <td>3 rework draw/change depth M3</td> <td>09.02.16</td> <td>A.S.</td> <td colspan="3"></td> </tr> <tr> <td>2 BACK-EMF REMOVED+CONNECTOR</td> <td>19.06.12</td> <td>J.W.</td> <td colspan="3"></td> </tr> <tr> <td>REV</td> <td>DESCRIPTION</td> <td>DATE</td> <td>DRN</td> <td>SIGNATURE</td> <td>DATE</td> <td></td> </tr> </tbody> </table>									APVD	S.Ha.	26.02.07	STEPPING MOTOR			AMBIENT HUMIDITY MAX. 85% (NO CONDENSATION)			DWG.NO			4 change motor length	04.10.16	A.S.	ST4118S0406-A			3 rework draw/change depth M3	09.02.16	A.S.				2 BACK-EMF REMOVED+CONNECTOR	19.06.12	J.W.				REV	DESCRIPTION	DATE	DRN	SIGNATURE	DATE			
APVD	S.Ha.	26.02.07	STEPPING MOTOR																																															
AMBIENT HUMIDITY MAX. 85% (NO CONDENSATION)			DWG.NO																																															
4 change motor length	04.10.16	A.S.	ST4118S0406-A																																															
3 rework draw/change depth M3	09.02.16	A.S.																																																
2 BACK-EMF REMOVED+CONNECTOR	19.06.12	J.W.																																																
REV	DESCRIPTION	DATE	DRN	SIGNATURE	DATE																																													



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

STEPPING MOTOR
 DWG.NO
 ST4118S0406-A