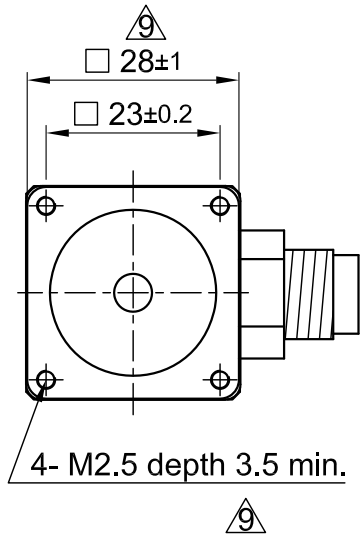
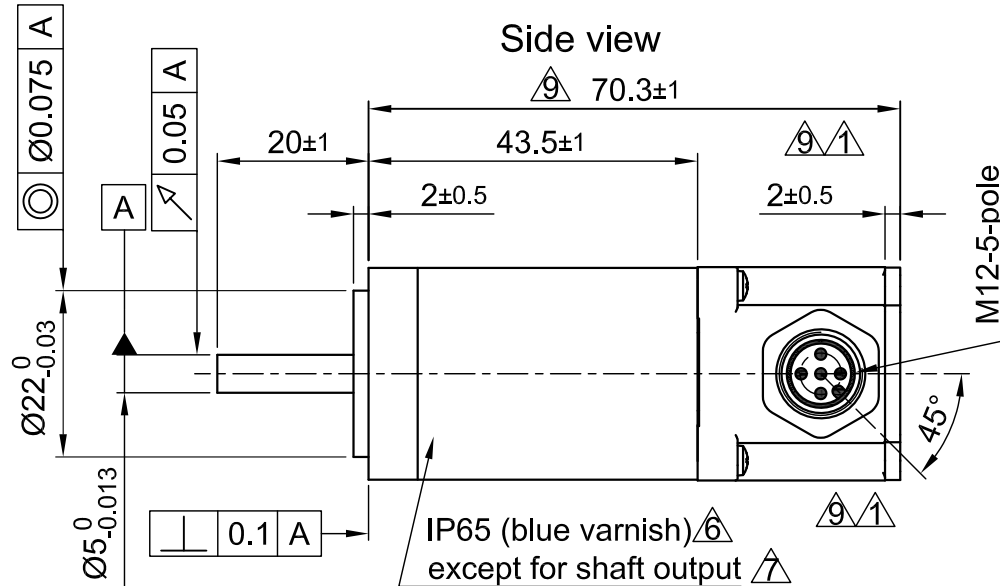


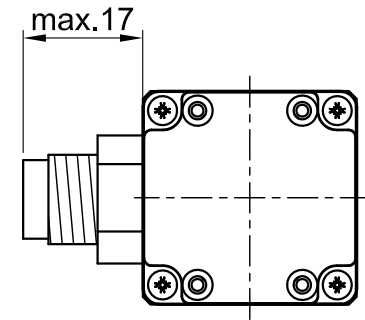
Front view and mounting



Side view



Rear view



CONNECTION		BIPOLAR SERIAL		PERMISSIBLE RADIAL+AXIAL FORCE				M12-5 pole Motor																																						
SPECIFICATION																																														
VOLTAGE (VDC)		6.16		<table border="1"> <tr> <th>NO.</th> <th>ASSIGNMENT</th> </tr> <tr> <td>1</td> <td>A\</td> </tr> <tr> <td>2</td> <td>A</td> </tr> <tr> <td>3</td> <td>B</td> </tr> <tr> <td>4</td> <td>B\</td> </tr> <tr> <td>5</td> <td>HOUSING</td> </tr> </table>				NO.	ASSIGNMENT	1	A\	2	A	3	B	4	B\	5	HOUSING	<p>CABLE MOTOR: Δ ZK-M12-5-2m(5m) STRAIGHT OR 90° ANGELED</p>																										
NO.	ASSIGNMENT																																													
1	A\																																													
2	A																																													
3	B																																													
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5	HOUSING																																													
AMPS/PHASE		0.67		<table border="1"> <tr> <th>STEP</th> <th>A</th> <th>B</th> <th>A\</th> <th>B\</th> <th></th> </tr> <tr> <td>1</td> <td>+</td> <td>+</td> <td>-</td> <td>-</td> <td rowspan="4"> <table border="1"> <tr> <td>CCW</td> <td>↑</td> </tr> <tr> <td></td> <td>↓</td> </tr> <tr> <td></td> <td>↑</td> </tr> <tr> <td>CW</td> <td>↓</td> </tr> </table> </td> </tr> <tr> <td>2</td> <td>-</td> <td>+</td> <td>+</td> <td>-</td> </tr> <tr> <td>3</td> <td>-</td> <td>-</td> <td>+</td> <td>+</td> </tr> <tr> <td>4</td> <td>+</td> <td>-</td> <td>-</td> <td>+</td> </tr> </table>				STEP	A	B	A\	B\		1	+	+	-	-	<table border="1"> <tr> <td>CCW</td> <td>↑</td> </tr> <tr> <td></td> <td>↓</td> </tr> <tr> <td></td> <td>↑</td> </tr> <tr> <td>CW</td> <td>↓</td> </tr> </table>	CCW	↑		↓		↑	CW	↓	2	-	+	+	-	3	-	-	+	+	4	+	-	-	+	<p>FULL STEP 2 PHASE-Ex., WHEN FACING MOUNTING END (X)</p>			
STEP	A	B	A\	B\																																										
1	+	+	-	-	<table border="1"> <tr> <td>CCW</td> <td>↑</td> </tr> <tr> <td></td> <td>↓</td> </tr> <tr> <td></td> <td>↑</td> </tr> <tr> <td>CW</td> <td>↓</td> </tr> </table>	CCW	↑		↓		↑	CW	↓																																	
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3	-	-	+	+																																										
4	+	-	-	+																																										
RESISTANCE/PHASE (Ohms)@25°C		9.2±15%		<table border="1"> <tr> <th>AXIAL-FORCE Fa (N)</th> <th colspan="4">Fa=7</th> </tr> <tr> <td></td> <td>5</td> <td>10</td> <td>15</td> <td>20</td> </tr> </table>				AXIAL-FORCE Fa (N)	Fa=7					5	10	15	20																													
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INDUCTANCE/PHASE (mH) @1KHz		7.2±20%		<table border="1"> <tr> <th>RADIAL-FORCE Fr (N)</th> <th colspan="4"></th> </tr> <tr> <td></td> <td>58</td> <td>36</td> <td>26</td> <td>20</td> </tr> </table>				RADIAL-FORCE Fr (N)						58	36	26	20																													
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HOLDING TORQUE (Nm) [lb-in]		0.127 [1.124]		<table border="1"> <tr> <th>SHAFT PLAY (mm)</th> <th>AXIAL</th> <th>RADIAL</th> </tr> <tr> <td></td> <td>0.075</td> <td>0.025</td> </tr> </table>				SHAFT PLAY (mm)	AXIAL	RADIAL		0.075	0.025																																	
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DETENT TORQUE (Nm) [lb-in]		4.5x10 ⁻³ [0.04]		<table border="1"> <tr> <th>AT LOAD MAX: (N)</th> <th>10</th> <th>5.0</th> </tr> </table>				AT LOAD MAX: (N)	10	5.0																																				
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STEP ANGLE (°)		1.8																																												
STEP ACCURACY (NON-ACCUM)		±5%																																												
ROTOR INERTIA (Kg-m ²) [lb-in ²]		1.8x10 ⁻⁶ [6.148x10 ⁻³]																																												
WEIGHT (Kg) [lb]		0.22 [0.485]																																												
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)																																														
9	revise drawing/ tolerances	06.10.16	A.S.				APVD	<i>S.Ha.</i>	11.07.07	STEPPER MOTOR IN PROTECTION																																				
8	INDUCTANCE OF 5.6 CHANGED IN 7.2	25.05.10	J.W.				CHKD																																							
7	RESTRICTION SUPPLEMENTED	17.02.10	J.W.	Surface specification	General tolerances	Work piece edge	DRN	<i>J.W.</i>	15.01.07	DWG.NO AS2818L0604 Δ																																				
REV	DESCRIPTION	DATE	DRN	DIN ISO 1302	DIN ISO 2768- cH	DIN ISO 13715	SIGNATURE		DATE																																					