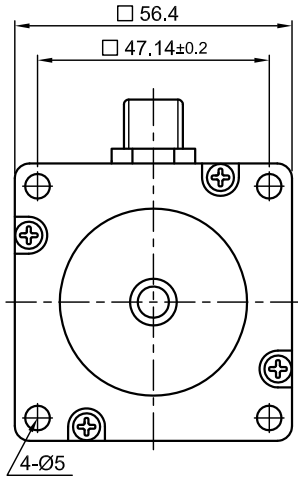
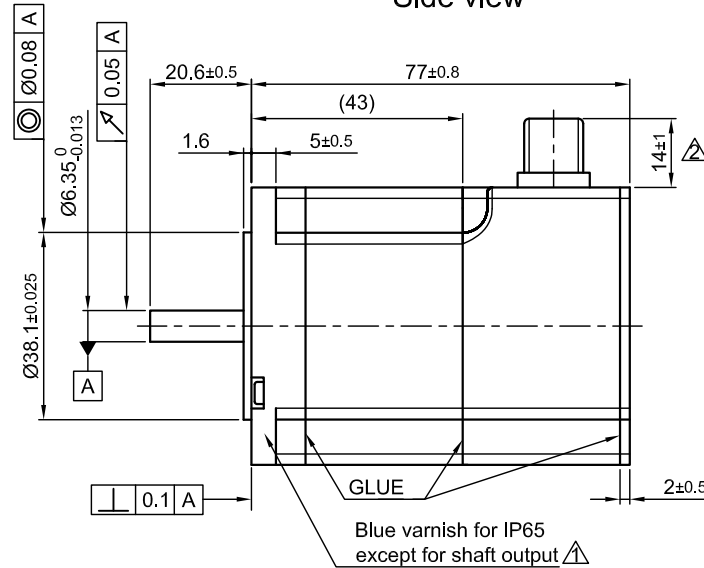


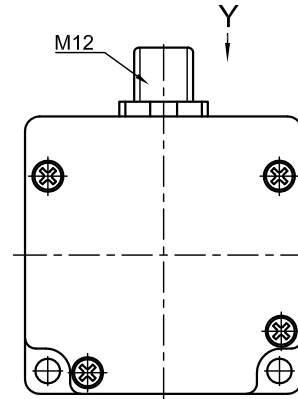
Front view and mounting



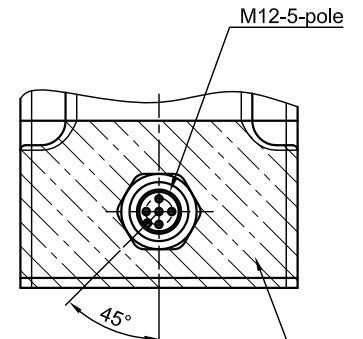
Side view



Rear view



Y view



* Temperature on marked area must not exceed 80°C. From 50°C to 80°C follow derating curve.

SPECIFICATION		CONNECTION		BIPOLAR PARALLEL		FULL STEP 2 PHASE-Ex., WHEN FACING MOUNTING END (X)				PERMISSIBLE RADIAL+AXIAL FORCE																																																																			
VOLTAGE (VDC)		2.4		2.4		<table border="1"> <tr> <th>STEP</th> <th>A</th> <th>B</th> <th>A\</th> <th>B\</th> <th>CCW</th> </tr> <tr> <td>1</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> </tr> <tr> <td>3</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> </tr> </table>				STEP	A	B	A\	B\	CCW	1	+	+	-	-	↑	2	-	+	+	-	↓	3	-	-	+	+	↑	4	+	-	-	+	↓					M12-5 pole Motor																																	
STEP	A	B	A\	B\	CCW																																																																								
1	+	+	-	-	↑																																																																								
2	-	+	+	-	↓																																																																								
3	-	-	+	+	↑																																																																								
4	+	-	-	+	↓																																																																								
AMPS/PHASE		2.82 *		2.82 *						<table border="1"> <thead> <tr> <th>NO.</th> <th>ASSIGNMENT</th> </tr> </thead> <tbody> <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> </tbody> </table>				NO.	ASSIGNMENT	1	A\	2	A	3	B	4	B\	5	HOUSING																																																				
NO.	ASSIGNMENT																																																																												
1	A\																																																																												
2	A																																																																												
3	B																																																																												
4	B\																																																																												
5	HOUSING																																																																												
RESISTANCE/PHASE (Ohms)@25°C		0.85±10%		0.85±10%		<table border="1"> <thead> <tr> <th>AXIAL FORCE F_a (N)</th> <th>5</th> <th>10</th> <th>15</th> <th>20</th> </tr> </thead> <tbody> <tr> <td>RADIAL FORCE F_r (N)</td> <td>130</td> <td>90</td> <td>70</td> <td>52</td> </tr> </tbody> </table>				AXIAL FORCE F_a (N)	5	10	15	20	RADIAL FORCE F_r (N)	130	90	70	52	CABLE MOTOR: ZK-M12-5-2m(5m) STRAIGHT OR 90° ANGLED																																																									
AXIAL FORCE F_a (N)	5	10	15	20																																																																									
RADIAL FORCE F_r (N)	130	90	70	52																																																																									
INDUCTANCE/PHASE (mH) @1KHz		2.5±20%		2.5±20%		<table border="1"> <thead> <tr> <th>AXIAL</th> <th>RADIAL</th> </tr> </thead> <tbody> <tr> <td>SHAFT PLAY (mm)</td> <td>0.08 0.02</td> </tr> </tbody> </table>				AXIAL	RADIAL	SHAFT PLAY (mm)	0.08 0.02																																																																
AXIAL	RADIAL																																																																												
SHAFT PLAY (mm)	0.08 0.02																																																																												
HOLDING TORQUE (Nm) [lb-in]		1.24 [10.96]		1.24 [10.96]		<table border="1"> <thead> <tr> <th>AT LOAD MAX: (N)</th> <th>4.5</th> <th>4.5</th> </tr> </thead> <tbody> <tr> <td>TEMPERATURE RISE: MAX.80°C (MOTOR STANDSTILL; FOR 2 PHASE ENERGIZED) * </td> <td colspan="3"></td> </tr> <tr> <td>AMBIENT TEMPERATURE -10~ 50°C [14°F ~ 122°F] * </td> <td colspan="3"></td> </tr> <tr> <td>INSULATION RESISTANCE 100 MOhm (UNDER NORMAL TEMPERATURE AND HUMIDITY)</td> <td colspan="3"></td> </tr> <tr> <td>INSULATION CLASS B 130° [266°F]</td> <td colspan="3"></td> </tr> <tr> <td>DIELECTRIC STRENGTH 500VAC FOR 1 MIN. (BETWEEN THE MOTOR COILS AND THE MOTOR CASE)</td> <td colspan="3"></td> </tr> <tr> <td>AMBIENT HUMIDITY MAX. 85% (NO CONDENSATION)</td> <td colspan="3"></td> </tr> <tr> <td>3</td> <td>change values</td> <td>17.08.16</td> <td>A.S.</td> <td colspan="2" rowspan="2"> </td> <td>APVD</td> <td>S.Ha.</td> <td>09.11.09</td> <td colspan="2" rowspan="2"> STEPPER MOTOR IN PROTECTION </td> </tr> <tr> <td>2</td> <td>warning notice/ rework draw</td> <td>05.04.16</td> <td>A.S.</td> <td>CHKD</td> <td></td> <td></td> <td></td> </tr> <tr> <td>1</td> <td>RESTRICTION SUPPLEMENTED</td> <td>17.02.10</td> <td>J.W.</td> <td>Surface specification DIN ISO 1302</td> <td>General tolerances DIN ISO 2768- cH</td> <td>Work piece edge DIN ISO 13715</td> <td>DRN</td> <td>J.W.</td> <td>09.11.09</td> <td>DWG.NO</td> </tr> <tr> <td>REV</td> <td>DESCRIPTION</td> <td>DATE</td> <td>DRN</td> <td></td> <td></td> <td></td> <td>SIGNATURE</td> <td>DATE</td> <td colspan="2">AS5918M2804</td> </tr> </tbody> </table>				AT LOAD MAX: (N)	4.5	4.5	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)				3	change values	17.08.16	A.S.			APVD	S.Ha.	09.11.09	STEPPER MOTOR IN PROTECTION		2	warning notice/ rework draw	05.04.16	A.S.	CHKD				1	RESTRICTION SUPPLEMENTED	17.02.10	J.W.	Surface specification DIN ISO 1302	General tolerances DIN ISO 2768- cH	Work piece edge DIN ISO 13715	DRN	J.W.	09.11.09	DWG.NO	REV	DESCRIPTION	DATE	DRN				SIGNATURE	DATE	AS5918M2804	
AT LOAD MAX: (N)	4.5	4.5																																																																											
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)																																																																													
3	change values	17.08.16	A.S.			APVD	S.Ha.	09.11.09	STEPPER MOTOR IN PROTECTION																																																																				
2	warning notice/ rework draw	05.04.16	A.S.			CHKD																																																																							
1	RESTRICTION SUPPLEMENTED	17.02.10	J.W.	Surface specification DIN ISO 1302	General tolerances DIN ISO 2768- cH	Work piece edge DIN ISO 13715	DRN	J.W.	09.11.09	DWG.NO																																																																			
REV	DESCRIPTION	DATE	DRN				SIGNATURE	DATE	AS5918M2804																																																																				