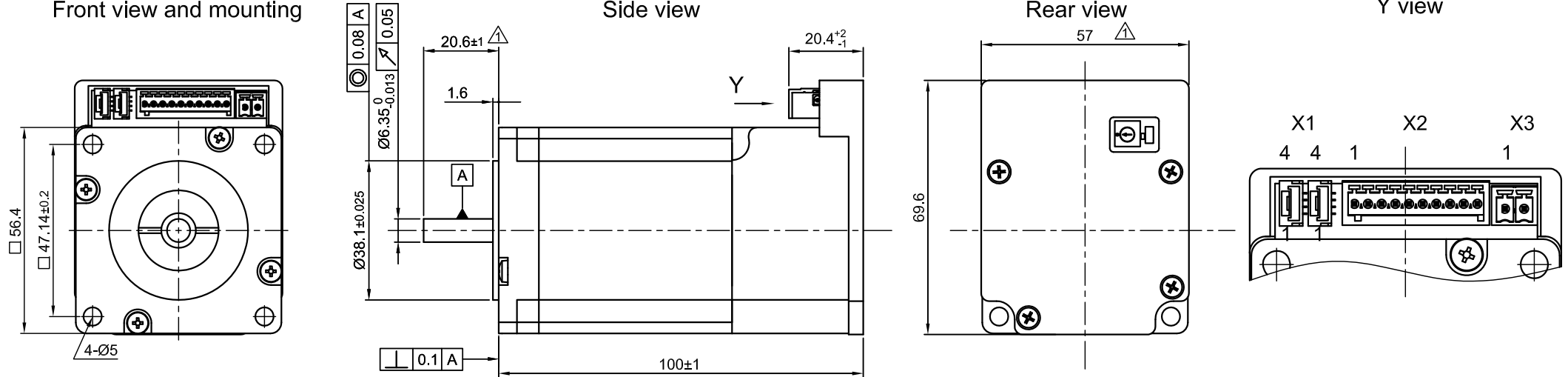


Front view and mounting

Side view

Rear view

Y view



CONNECTION	BIPOLAR	PERMISSIBLE RADIAL+AXIAL FORCE																																																								
SPECIFICATION																																																										
VOLTAGE (VDC)	12 TO 48	<p>ROTOR SPRING-MOUNTED IN AXIAL DIRECTION</p> <p>SPRING WASHER</p> <p>BEARING</p> <p>F_r</p> <p>F_a</p> <p>a</p>																																																								
AMPS/PHASE(A)	4.2																																																									
HOLDING TORQUE (Nm) [lb-in]	1.87 [16.55]																																																									
DETENT TORQUE (Nm) [lb-in]	0.068 [0.602]																																																									
STEP ANGLE (°)±ACCURACY	1.8±5% TO MICROSTEP																																																									
WEIGHT (Kg) [lb]	1.1[2.43]																																																									
OVERTEMPERATURE PROTECTION (ELECTRONICS): 75°C		<table border="1"> <thead> <tr> <th colspan="2">X1, JST GH-4</th> <th colspan="2">X2, Phoenix MCV-10</th> </tr> <tr> <th>PIN No.</th> <th>Function</th> <th>PIN No.</th> <th>Function</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>+UB_LOGIC(24V)</td> <td>1</td> <td>GND</td> </tr> <tr> <td>2</td> <td>CAN+</td> <td>2</td> <td>Analog input (0-10V)</td> </tr> <tr> <td>3</td> <td>CAN-</td> <td>3</td> <td>+12V (Voltage Output, max.100mA)</td> </tr> <tr> <td>4</td> <td>GND</td> <td>4</td> <td>Output1 (open drain)</td> </tr> <tr> <td colspan="2"> <table border="1"> <thead> <tr> <th colspan="2">X3, Phoenix FMC-02</th> </tr> <tr> <th>PIN No.</th> <th>Function</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>+VCC(12-48V)</td> </tr> <tr> <td>2</td> <td>GND</td> </tr> </tbody> </table> </td> <td>5</td> <td>Output2 (open drain)</td> </tr> <tr> <td colspan="2"></td> <td>6</td> <td>Input1 (+5/+24V)</td> </tr> <tr> <td colspan="2"></td> <td>7</td> <td>Input2 (+5/+24V)</td> </tr> <tr> <td colspan="2"></td> <td>8</td> <td>Input3 (+5/+24V)</td> </tr> <tr> <td colspan="2"></td> <td>9</td> <td>Input4 (+5/+24V)</td> </tr> <tr> <td colspan="2"></td> <td>10</td> <td>GND</td> </tr> </tbody> </table>	X1, JST GH-4		X2, Phoenix MCV-10		PIN No.	Function	PIN No.	Function	1	+UB_LOGIC(24V)	1	GND	2	CAN+	2	Analog input (0-10V)	3	CAN-	3	+12V (Voltage Output, max.100mA)	4	GND	4	Output1 (open drain)	<table border="1"> <thead> <tr> <th colspan="2">X3, Phoenix FMC-02</th> </tr> <tr> <th>PIN No.</th> <th>Function</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>+VCC(12-48V)</td> </tr> <tr> <td>2</td> <td>GND</td> </tr> </tbody> </table>		X3, Phoenix FMC-02		PIN No.	Function	1	+VCC(12-48V)	2	GND	5	Output2 (open drain)			6	Input1 (+5/+24V)			7	Input2 (+5/+24V)			8	Input3 (+5/+24V)			9	Input4 (+5/+24V)			10	GND
X1, JST GH-4		X2, Phoenix MCV-10																																																								
PIN No.	Function	PIN No.	Function																																																							
1	+UB_LOGIC(24V)	1	GND																																																							
2	CAN+	2	Analog input (0-10V)																																																							
3	CAN-	3	+12V (Voltage Output, max.100mA)																																																							
4	GND	4	Output1 (open drain)																																																							
<table border="1"> <thead> <tr> <th colspan="2">X3, Phoenix FMC-02</th> </tr> <tr> <th>PIN No.</th> <th>Function</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>+VCC(12-48V)</td> </tr> <tr> <td>2</td> <td>GND</td> </tr> </tbody> </table>		X3, Phoenix FMC-02		PIN No.	Function	1	+VCC(12-48V)	2	GND	5	Output2 (open drain)																																															
X3, Phoenix FMC-02																																																										
PIN No.	Function																																																									
1	+VCC(12-48V)																																																									
2	GND																																																									
		6	Input1 (+5/+24V)																																																							
		7	Input2 (+5/+24V)																																																							
		8	Input3 (+5/+24V)																																																							
		9	Input4 (+5/+24V)																																																							
		10	GND																																																							
AMBIENT TEMPERATURE -10°~ 50°C [14°F ~ 122°F] (HIGHER TEMPERATURE REDUCES DUTY CYCLE)		<table border="1"> <thead> <tr> <th>AXIAL-FORCE F_a (N)</th> <th>$F_a=15$</th> </tr> </thead> <tbody> <tr> <td>DISTANCE a (mm)</td> <td>20</td> </tr> <tr> <td>RADIAL-FORCE F_r (N)</td> <td>52</td> </tr> <tr> <td colspan="2"> <table border="1"> <thead> <tr> <th></th> <th>AXIAL</th> <th>RADIAL</th> </tr> </thead> <tbody> <tr> <td>SHAFT PLAY (mm)</td> <td>0.2Max</td> <td>0.02</td> </tr> <tr> <td>AT LOAD MAX: (N)</td> <td>200</td> <td>4.5</td> </tr> </tbody> </table> </td> </tr> </tbody> </table>	AXIAL-FORCE F_a (N)	$F_a=15$	DISTANCE a (mm)	20	RADIAL-FORCE F_r (N)	52	<table border="1"> <thead> <tr> <th></th> <th>AXIAL</th> <th>RADIAL</th> </tr> </thead> <tbody> <tr> <td>SHAFT PLAY (mm)</td> <td>0.2Max</td> <td>0.02</td> </tr> <tr> <td>AT LOAD MAX: (N)</td> <td>200</td> <td>4.5</td> </tr> </tbody> </table>			AXIAL	RADIAL	SHAFT PLAY (mm)	0.2Max	0.02	AT LOAD MAX: (N)	200	4.5																																							
AXIAL-FORCE F_a (N)	$F_a=15$																																																									
DISTANCE a (mm)	20																																																									
RADIAL-FORCE F_r (N)	52																																																									
<table border="1"> <thead> <tr> <th></th> <th>AXIAL</th> <th>RADIAL</th> </tr> </thead> <tbody> <tr> <td>SHAFT PLAY (mm)</td> <td>0.2Max</td> <td>0.02</td> </tr> <tr> <td>AT LOAD MAX: (N)</td> <td>200</td> <td>4.5</td> </tr> </tbody> </table>			AXIAL	RADIAL	SHAFT PLAY (mm)	0.2Max	0.02	AT LOAD MAX: (N)	200	4.5																																																
	AXIAL	RADIAL																																																								
SHAFT PLAY (mm)	0.2Max	0.02																																																								
AT LOAD MAX: (N)	200	4.5																																																								
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)																																																										

REV	DESCRIPTION	DATE	DRN	Surface specification DIN ISO 1302			General tolerances DIN ISO 2768-cH			Work piece edge DIN ISO 13715			APVD	G.M.	16.05.14	PLUG&DRIVE MOTOR DWG.NO PD4-C5918L4204-E-08
2	NEW HOLDING TORQUE	11.10.16	GYQ										CHKD			
1	REWORK DRAW/CHANGE TOLERANCE	04.07.16	GYQ										DRN	GYQ	16.05.14	
													SIGNATURE	DATE		