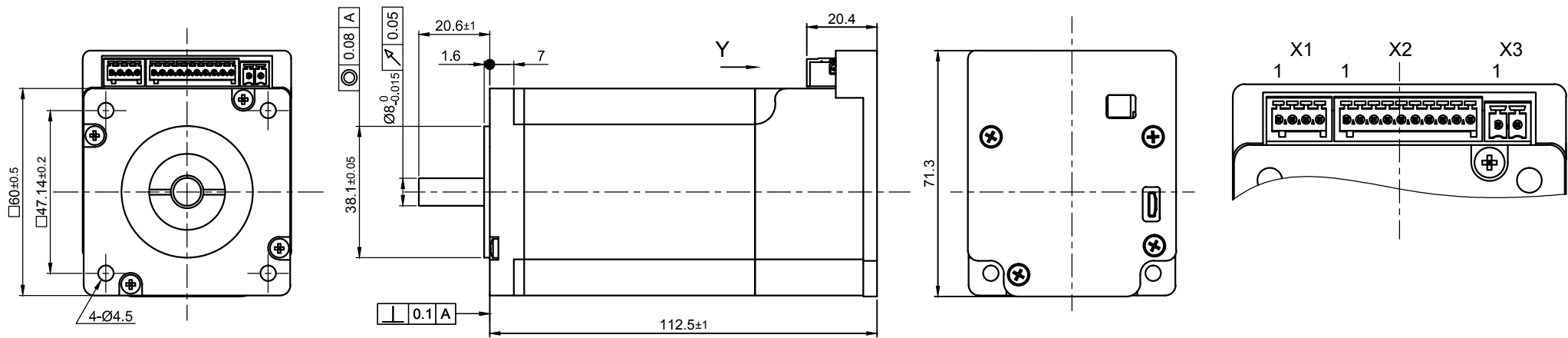


Front view and mounting

Side view

Rear view

Y view



CONNECTION		BIPOLAR PARALLEL	PERMISSIBLE RADIAL+AXIAL FORCE				X1, Phoenix MCV-04		X2, Phoenix MCV-10																																																	
SPECIFICATION							<table border="1"> <thead> <tr> <th>PIN No.</th> <th>Function</th> </tr> </thead> <tbody> <tr><td>1</td><td>GND</td></tr> <tr><td>2</td><td>Analog Input(0-10V)</td></tr> <tr><td>3</td><td>Output (open drain)</td></tr> <tr><td>4</td><td>+12V (Voltage Output, max.100mA)</td></tr> </tbody> </table>		PIN No.	Function	1	GND	2	Analog Input(0-10V)	3	Output (open drain)	4	+12V (Voltage Output, max.100mA)	<table border="1"> <thead> <tr> <th>PIN No.</th> <th>Function</th> </tr> </thead> <tbody> <tr><td>1</td><td>Input1 (+24V)</td></tr> <tr><td>2</td><td>Input2 (+24V)</td></tr> <tr><td>3</td><td>Input3 (+24V)</td></tr> <tr><td>4</td><td>-Enable +5/+24V</td></tr> <tr><td>5</td><td>Enable +5/+24V</td></tr> <tr><td>6</td><td>-Direction +5/+24V</td></tr> <tr><td>7</td><td>Direction +5/+24V</td></tr> <tr><td>8</td><td>-Clock +5/+24V</td></tr> <tr><td>9</td><td>Clock +5/+24V</td></tr> <tr><td>10</td><td>GND</td></tr> </tbody> </table>		PIN No.	Function	1	Input1 (+24V)	2	Input2 (+24V)	3	Input3 (+24V)	4	-Enable +5/+24V	5	Enable +5/+24V	6	-Direction +5/+24V	7	Direction +5/+24V	8	-Clock +5/+24V	9	Clock +5/+24V	10	GND																
PIN No.	Function																																																									
1	GND																																																									
2	Analog Input(0-10V)																																																									
3	Output (open drain)																																																									
4	+12V (Voltage Output, max.100mA)																																																									
PIN No.	Function																																																									
1	Input1 (+24V)																																																									
2	Input2 (+24V)																																																									
3	Input3 (+24V)																																																									
4	-Enable +5/+24V																																																									
5	Enable +5/+24V																																																									
6	-Direction +5/+24V																																																									
7	Direction +5/+24V																																																									
8	-Clock +5/+24V																																																									
9	Clock +5/+24V																																																									
10	GND																																																									
VOLTAGE (VDC)		2.73	<table border="1"> <thead> <tr> <th>AXIAL-FORCE Fa (N)</th> <th colspan="4">Fa=15</th> </tr> </thead> <tbody> <tr> <td>DISTANCE a (mm)</td> <td>5</td> <td>10</td> <td>15</td> <td>20</td> </tr> </tbody> </table>				AXIAL-FORCE Fa (N)	Fa=15				DISTANCE a (mm)	5	10	15	20	<table border="1"> <thead> <tr> <th>PIN No.</th> <th>Function</th> </tr> </thead> <tbody> <tr><td>1</td><td>+VCC</td></tr> <tr><td>2</td><td>GND</td></tr> </tbody> </table>		PIN No.	Function	1	+VCC	2	GND																																		
AXIAL-FORCE Fa (N)	Fa=15																																																									
DISTANCE a (mm)	5	10	15	20																																																						
PIN No.	Function																																																									
1	+VCC																																																									
2	GND																																																									
AMPS/PHASE		4.2	<table border="1"> <thead> <tr> <th>RADIAL-FORCE Fr (N)</th> <th colspan="4">AXIAL</th> <th colspan="4">RADIAL</th> </tr> </thead> <tbody> <tr> <td></td> <td>130</td> <td>90</td> <td>70</td> <td>52</td> <td colspan="4"></td> </tr> </tbody> </table>				RADIAL-FORCE Fr (N)	AXIAL				RADIAL					130	90	70	52					<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> </tr> </thead> <tbody> <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> </tbody> </table>		STEP	A	B	A\	B\	CCW	1	+	+	-	-	↓	2	-	+	-	-	↓	3	-	-	+	+	↓	4	+	-	-	+	↓		
RADIAL-FORCE Fr (N)	AXIAL				RADIAL																																																					
	130	90	70	52																																																						
STEP	A	B	A\	B\	CCW																																																					
1	+	+	-	-	↓																																																					
2	-	+	-	-	↓																																																					
3	-	-	+	+	↓																																																					
4	+	-	-	+	↓																																																					
RESISTANCE/PHASE (Ohms)@25°C		0.65±10%	SHAFT PLAY (mm)				0.2Max		0.02																																																	
INDUCTANCE/PHASE (mH) @1KHz		3.2±20%	AT LOAD MAX: (N)				200		4.5																																																	
HOLDING TORQUE (Nm) [lb-in]		3.54 [31.29]	SCALE FREE		APVD	G.M.	05.08.13	<p>PLUG&DRIVE MOTOR</p> <p>DWG.NO PD4-C6018L4204-E-01</p>																																																		
DETENT TORQUE (Nm) [lb-in]		0.075 [0.664]	X ±0.5	1PL ±0.2	CHKD																																																					
STEP ANGLE (°)		1.8	2PL ±0.1	DRN	GYQ	05.08.13																																																				
ACCURACY(NON-ACCUM)		±5%	ANGLE ±30'	SIGNATURE		DATE																																																				
ROTOR INERTIA (Kg-m ²) [lb-in ²]		8.4x10 ⁻⁵																																																								
WEIGHT (Kg) [lb]		1.6																																																								
OVERTEMPERATURE PROTECTION (ELECTRONICS): 80°C																																																										
AMBIENT TEMPERATURE -10°~ 40°C [14°F ~ 104°F] (HIGHER TEMPERATURE REDUCES DUTY CYCLE)																																																										
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	APVD			<p>PD4-C6018L4204-E-01</p>																																																				