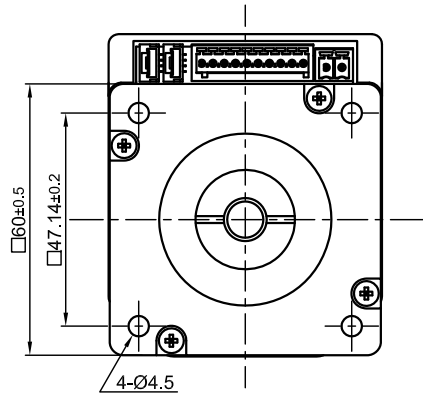
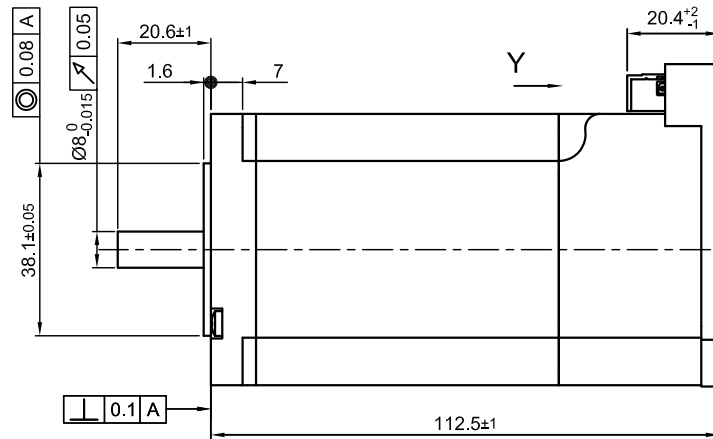


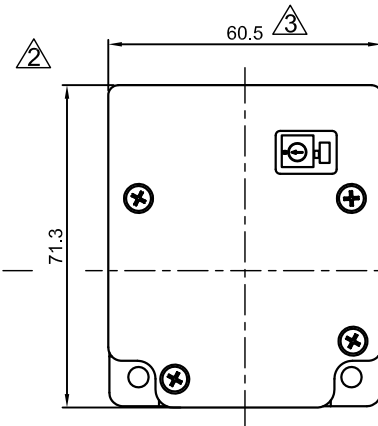
Front view and mounting



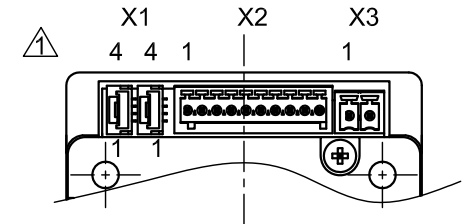
Side view



Rear view



Y view



CONNECTION		SPECIFICATION		BIPOLAR 3		PERMISSIBLE RADIAL+AXIAL FORCE					
VOLTAGE (VDC)		12 TO 48		12 TO 48							
AMPS/PHASE(A)		4.2		4.2							
HOLDING TORQUE (Nm) [lb-in]		3.54 [31.29]		3.54 [31.29]							
DETENT TORQUE (Nm) [lb-in]		0.075 [0.664]		0.075 [0.664]							
STEP ANGLE (°)±ACCURACY		1.8±5% TO MICROSTEP		1.8±5% TO MICROSTEP							
WEIGHT (Kg) [lb]		1.4[3.09]		1.4[3.09]							
OVERTEMPERATURE PROTECTION (ELECTRONICS): 75°C 3		AMBIENT TEMPERATURE -10°~ 50°C [14°F ~ 122°F] (HIGHER TEMPERATURE REDUCES DUTY CYCLE)		INSULATION RESISTANCE 100 MOhm (UNDER NORMAL TEMPERATURE AND HUMIDITY)		AXIAL-FORCE Fa (N)		Fa=15			
INSULATION CLASS B 130° [266°F]		DIELECTRIC STRENGTH 500VAC FOR 1 MIN. (BETWEEN THE MOTOR COILS AND THE MOTOR CASE)		INSULATION RESISTANCE 100 MOhm (UNDER NORMAL TEMPERATURE AND HUMIDITY)		DISTANCE a (mm)		20			
AMBIENT HUMIDITY MAX. 85% (NO CONDENSATION)		DIELECTRIC STRENGTH 500VAC FOR 1 MIN. (BETWEEN THE MOTOR COILS AND THE MOTOR CASE)		INSULATION CLASS B 130° [266°F]		RADIAL-FORCE Fr (N)		52			
								AXIAL			
								RADIAL			
						SHAFT PLAY (mm)		0.2Max			
						AT LOAD MAX: (N)		200			
								4.5			
03 REWORK DRAW/CHANGE TOLERANCE		04.07.16 GYQ		 Nanotec [®] PLUG & DRIVE		APVD		G.M.		08.08.13	
02 TOLERANCE OF CONNECTOR LENGTH		28.01.14 GYQ				CHKD					
01 EXCHANGE JST PIN1, PIN4		08.01.14 GYQ		Surface specification DIN ISO 1302		DRN		GYQ		08.08.13	
REV DESCRIPTION		DATE APVD				General tolerances DIN ISO 2768-cH		SIGNATURE		DATE	
				Work piece edge DIN ISO 13715							

X1, JST GH-4	
PIN No.	Function 1
1	+UB_LOGIC(24V)
2	CAN+
3	CAN-
4	GND

X2, Phoenix MCV-10	
PIN No.	Function
1	GND
2	Analog input (0-10V)
3	+12V (Voltage Output, max.100mA)
4	Output1 (open drain)
5	Output2 (open drain)
6	Input1 (+5/+24V)
7	Input2 (+5/+24V)
8	Input3 (+5/+24V)
9	Input4 (+5/+24V)
10	GND

X3, Phoenix FMC-02	
PIN No.	Function
1	+VCC(12-48V)
2	GND