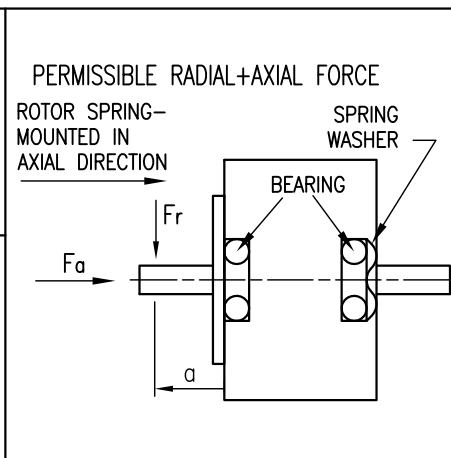
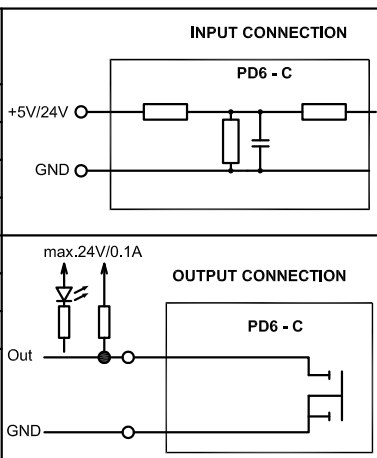


SPECIFICATION	CONNECTION	BIPOLAR
VOLTAGE (VDC)		12 to 48
AMPS/PHASE		9.5A
HOLDING TORQUE (Nm) [lb-in]		5.94 [52.57]
DETENT TORQUE (Nm) [lb-in]		0.21 [1.8585]
STEP ANGLE (°) ± ACCURACY		1.8 ±5% to Microstep
ROTOR INERTIA (kg-m <sup>2</sup> ) [ib-in <sup>2</sup> ]		1.9x10 <sup>-4</sup> [0.65]
WEIGHT (Kg) [lb]		2.95 [6.50]



OVERTEMPERATURE PROTECTION (ELECTRONICS): 75°C
AMBIENT TEMPERATURE -10°~ 50°C [14°F ~ 122°F]
INSULATION RESISTANCE 100 MOhm (UNDER NORMAL TEMPERATURE AND HUMIDITY)
INSULATION (MOTOR) 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)

AXIAL-FORCE Fa (N)	Fa=65			
DISTANCE a (mm)	5	10	15	20
RADIAL-FORCE Fr (N)	535	355	256	200
SHAFT PLAY (mm)	AXIAL			
AT LOAD MAX: (N)	0.2 max.			
	250			

X1 Power Connector	
Pin No.	Function
1	+UB (12-48V)
2	GND

X4/X5 CANopen IN/OUT	
Pin No.	Function
1	CAN_H
2	CAN_L
3	CAN_GND
4	n.c.
5	n.c.
6	CAN_SHLD
7	GND
8	+UB Logic (24V)

X2 IO Connector		
Pin No.	Function	
1	+10V VOLTAGE SUPPLY (max. 200mA)	
2	Input 1/ Enable (5V/24V)	-Input1/ -Enable*
3	Input 2/ Direction (5V/24V)	Input1/ Enable*
4	Input 3/ Clock (5V/24V)	-Input2/ -Direction*
5	Input 4 (5V/24V)	Input2/ Direction*
6	Input 5 (5V/24V)	-Input3/ -Clock*
7	Input 6 (5V/24V)	Input3/ Clock*
8	Analog Input1 (0-10V/0-20mA)	
9	Analog Input2 (0-10V)	
10	Output1 (open drain)	
11	Output2 (open drain)	
12	GND	

\*configured as differential input  
X3 Micro-USB

				<b>Nanotec®</b> PLUG & DRIVE			APVD	X.W.	14.06.16	<b>PLUG&amp;DRIVE MOTOR</b>	
							CHKD				
REV	DESCRIPTION	DATE	DRN	Surface specification DIN ISO 1302	General tolerances DIN ISO 2768- ch	Work piece edge DIN ISO 13715	DRN	A.S.	14.06.16	DWG.NO	PD6-C8918M9504-E-09
							SIGNATURE		DATE		