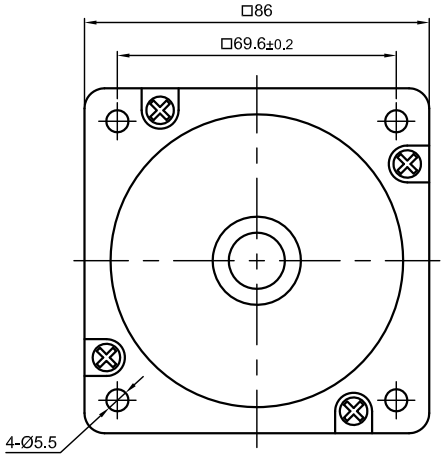
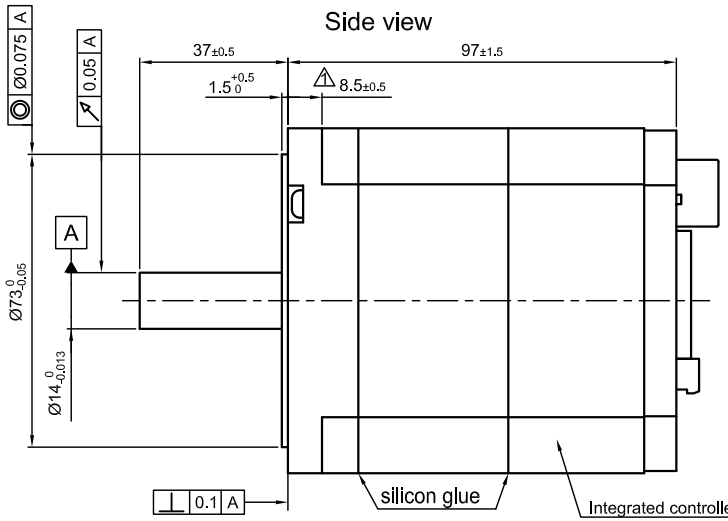
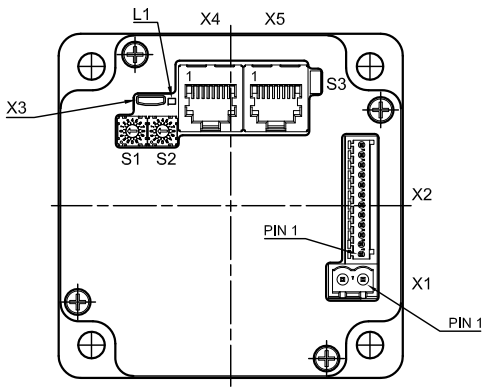
Front view and mounting



Side view



Rear view



Integrated controller and Encoder resolution: 1024 Incr./rev.

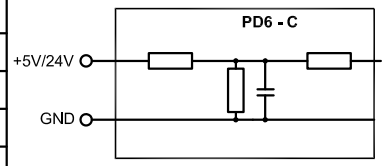
☛ : Axial play is below 0.2mm at 250N force.

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)

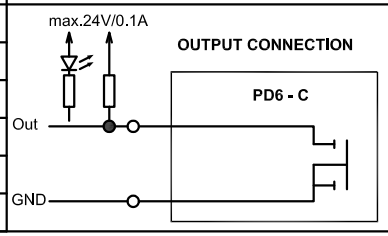
SPECIFICATION / CONNECTION	STAR
NO. OF POL./PHASE	8/3
VOLTAGE RATED (VDC)	48
CURRENT RATED/PEAK (AMP)	6.5/20
RESISTANCE/PHASE-PHASE (Ohms) @25°C	0.34±15%
INDUCTANCE/PHASE-PHASE (mH) @1KHz	1.0±20%
TORQUE RATED/PEAK (Nm)	0.70/2.1
TORQUE CONSTANT (Nm/A)	0.107
POWER RATED (W)	220
SPEED RATED/NO LOAD (RPM)	3000/4500±10%
ROTOR INERTIA ($g.cm^2$)	800
WEIGHT (Kg)	2.0

INPUT CONNECTION

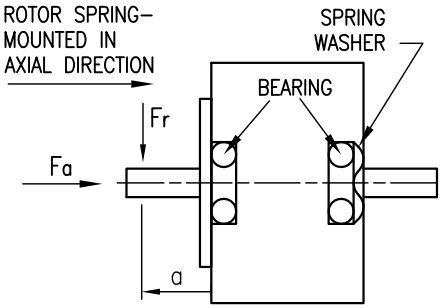


max.24V/0.1A

OUTPUT CONNECTION



PERMISSIBLE RADIAL+AXIAL FORCE



OVERTEMPERATURE PROTECTION (ELECTRONICS): 75°C	AXIAL-FORCE Fa (N)	Fa=60
AMBIENT TEMPERATURE -10°~ 50°C [14°F ~ 122°F]	DISTANCE a (mm)	20
INSULATION RESISTANCE 100 MOhm (UNDER NORMAL TEMPERATURE AND HUMIDITY)	RADIAL-FORCE Fr (N)	220
INSULATION (MOTOR) CLASS B 130° [266°F]		AXIAL / RADIAL
DIELECTRIC STRENGTH 500VAC FOR 1 MIN. (BETWEEN THE MOTOR COILS AND THE MOTOR CASE)	SHAFT PLAY (mm)	0.2 ☛ / 0.02
AMBIENT HUMIDITY MAX. 85% (NO CONDENSATION)	AT LOAD MAX: (N)	250 ☛ / 4.5

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) B	
11	Output2 (open drain) B	
12	GND	

*configured as differential input

X3 Micro-USB

REV	DESCRIPTION	DATE	DRN
1	change dimension flange	06.10.16	A.S.
B	–	22.03.16	A.S.
A	–	10.11.15	A.S.

Nanotec® PLUG & DRIVE

Surface specification DIN ISO 1302	General tolerances DIN ISO 2768- cH	Work piece edge DIN ISO 13715

APVD	X.W.	03.11.15
CHKD		
DRN	A.S.	03.11.15
SIGNATURE		DATE

PLUG&DRIVE MOTOR

DWG.NO

PD6-CB87S048030-E-09