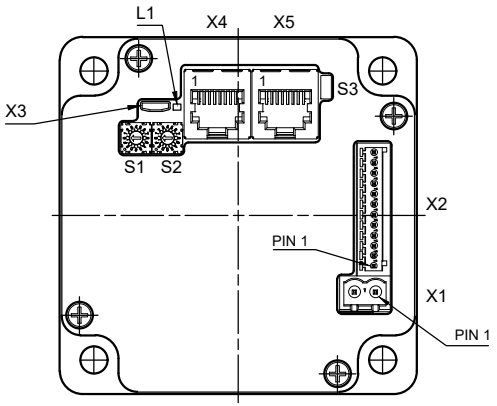
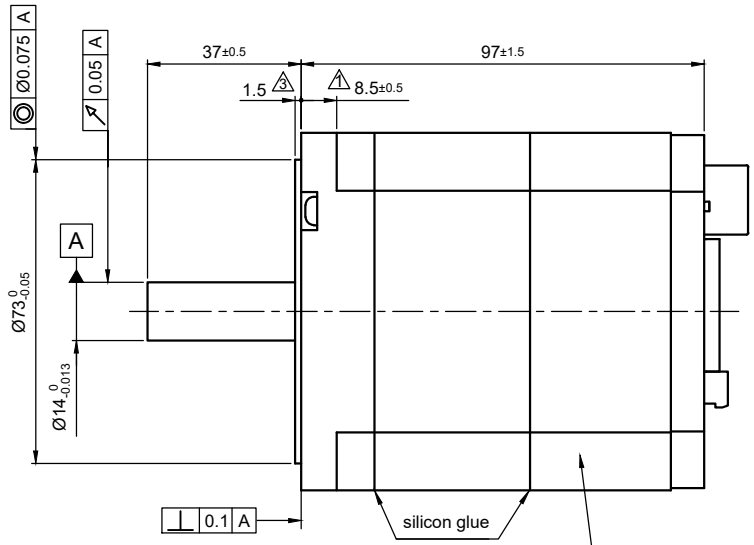
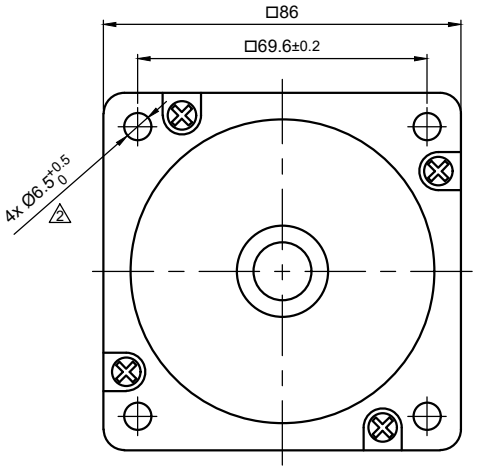






Integrated controller and Encoder resolution: 1024 Incr./rev.

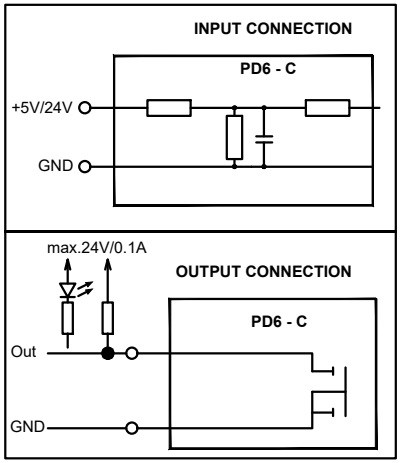
X4/ X5	CANopen IN/OUT
Pin No.	**Function**
1	CAN_H
2	CAN_L
3	CAN_GND
4	n.c.
5	n.c.
6	CAN_SHLD
7	GND
8	+UB Logic (24V)

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

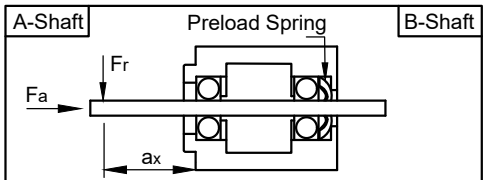
MOTOR SPECIFICATION			
No. of Poles		8	
Rated Voltage	V DC	48	
Current - Rated / Peak	A	6.5	/ 20
Resistance per Phase (25°C) ±15%	Ω	0.34	
Inductance per Phase (1kHz) ±20%	mH	1.0	
Torque - Rated / Peak	Nm	0.7	/ 2.1
Torque Constant	Nm/A	0.107	
Power - Rated	W	220	
Speed - No Load / Rated ±10%	rpm	3600	/ 3000
Encoder Resolution	cpr	1024	
Rotor Inertia	kg m²	80	x10^{-6}

3

GENERAL MOTOR SPECIFICATION		
Interface		CANOPEN
Ambient Temperature	°C	-10 ...50
Switch-off Temperature	°C	75
Max. Ambient Humidity (non condensing)	%	85
Insulation Class		B
Insulation Resistance	MΩ	100
Dielectric Strength (for 1 min - coil to case)	V AC	500



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



Max. Axial Force	Fa	N	60
Max. Radial Force	Fr (a2 = 20 mm)	N	220
Axial Play	Fa = 250N@	mm	0.2 @
Radial Play	Fr = 4.5 N	mm	0.02

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

*configured as differential input

X3	Micro-USB

ISO 8015	ISO 1302	ISO 2768 cK	ISO 13715

					Date	Name
				Drawn	20.04.2022	Schneid_A
				Reviewed	20.04.2022	Reith_S
03	change noload speed+tol	Reith_S	09.02.2023	Released	20.04.2022	Reith_S
02	change dimension diam.	Schneid_A	20.04.2022			
REV	Rev. Text	Name	Date			

Nanotec® PLUG & DRIVE

Replacement for drawing from 03.11.2015 | Weight: ~2.1 kg

PD6-CB87S048030-E-09

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State: Released | Rev: 03 | CONFIDENTIAL