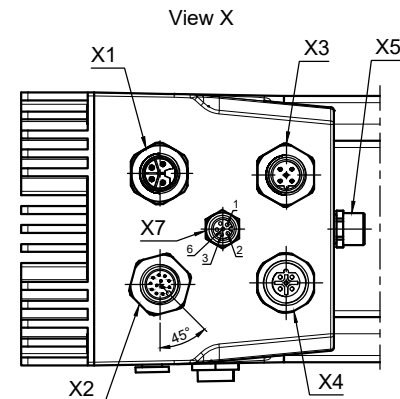
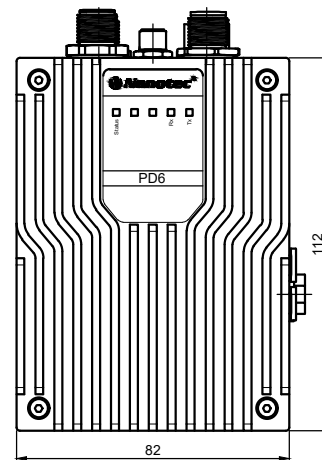
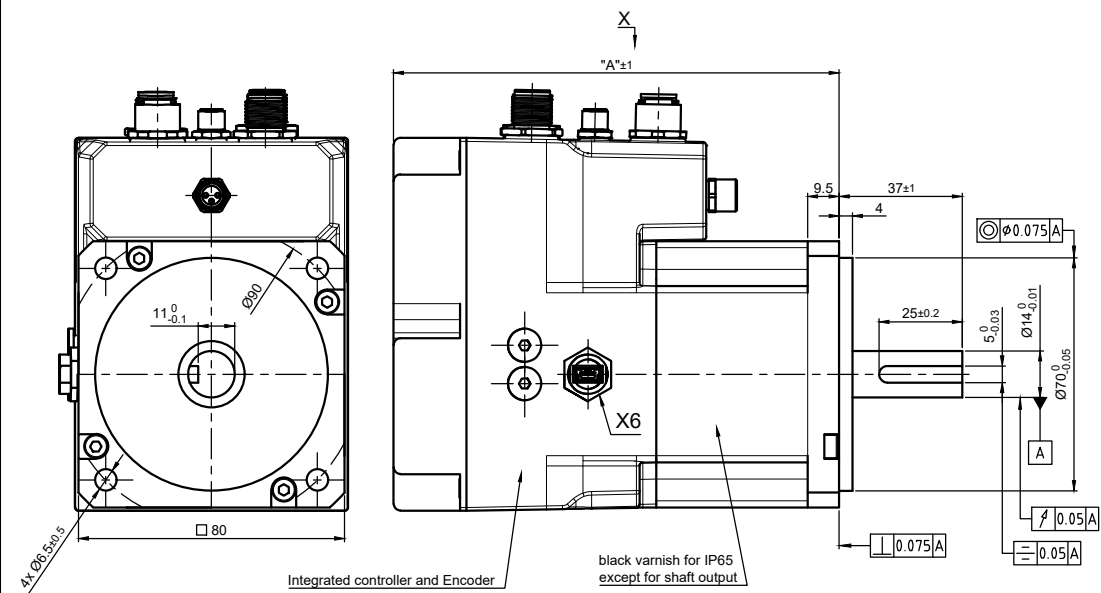




X1 POWER	
M12 / 4-Pole / L-Coding / male	
Pin No.	Function
1	+UB
2	+UB
3	GND
4	GND
cable shield on housing	

X2 IO	
M12 / 12-Pole / A-Coding / male	
Pin No.	Function
1	GND
2	Input 1 (+5V/+24V)
3	Input 2 (+5V/+24V)
4	Input 3 (+5V/+24V)
5	Input 4 (+5V/+24V)
6	Input 5 (+5V/+24V)
7	Input 6 (+5V/+24V)
8	Analog Input (0-10V/0-20mA)
9	Output 1 (open drain)
10	Output 2 (open drain)
11	+5V Voltage Supply (max. 100mA)
12	+UB Logic (24V)
cable shield on housing	

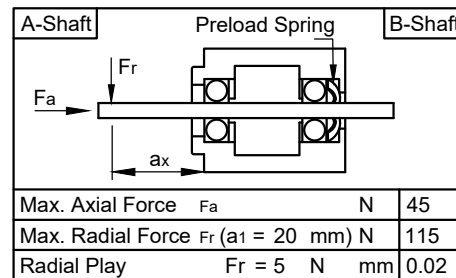
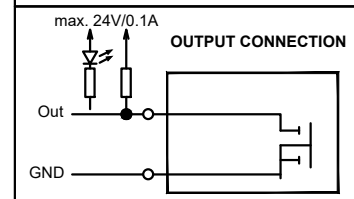
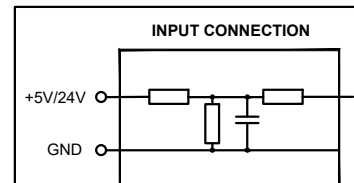
X3 Modbus RTU IN	
M12/ 5-Pole / B-Coding / male	
cable shield on housing	

X4 Modbus RTU OUT	
M12/ 5-Pole / B-Coding / female	
Pin No.	Function
1	X3 / X4 connected
2	D0 (RS485-)
3	Common
4	D0 (RS485+)
5	n.c.
cable shield on housing	

X5 Brake OUT	
M8/ 3-Pole / A-Coding / female	
PIN No.	Function
1	Vcc
3	GND
4	n.c.
cable shield on housing	

X6 Mini-USB	
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X7 STO	
M8/ 6-Pole / A-Coding / female	
Pin No.	Function
1	STO-A-IN
2	STO-A-RTN
3	STO-FBH
4	STO-FBL
5	STO-B-IN
6	STO-B-RTN
cable shield on housing	



MOTOR SPECIFICATION					
PD6-EB80xx-xx-65-5		SD-ES	MD-ES	LD-ES	CD-ES
Motor Length "A"	mm	134	155	170	190
No. of Poles		8			
Rated Voltage	V DC	48			
Min. Operating Voltage	V DC	12			
Max. Operating Voltage	V DC	57.6			
Current - Rated / Peak	A	6.9 / 20	14 / 40	18.75 / 65	25 / 75
Torque - Rated / Peak	Nm	0.9 / 2.5	1.7 / 5	2.25 / 6.5	3 / 9
Torque Constant	Nm/A	0.13	0.12	0.12	0.12
Power Rated	W	283	534	706	940
Speed - No Load / Rated ±10%	rpm	4100 / 3000	4250 / 3000	4300 / 3000	4250 / 3000
Rotor Inertia	kg m²	54.4 x10 ⁻⁶	102 x10 ⁻⁶	136 x10 ⁻⁶	190 x10 ⁻⁶
Singleturn Encoder Resolution	bit	12	12	12	12
Weight	kg	±10% 2.0	±10% 2.7	±10% 3.1	±10% 3.8

GENERAL MOTOR SPECIFICATION	
Interface	MODBUS RTU (RS485)
Ambient Temperature	°C -10 ... 40
Storage Temperature	°C -10 ... 85
Max. Ambient Humidity (non condensing)	% 85
Protection Class (except shaft outlet)	IP65
Protection Class (shaft outlet)	IP54

ISO 8015		ISO 1302		ISO 2768 c		ISO 13715	
						Date	Name
						Drawn	15.05.2025 Schneid_A
						Reviewed	02.10.2025 Reith_S
						Released	02.10.2025 Reith_S
REV	Rev. Text	Name	Date				



PD6-EB80xD-xS-65-5			
20002990			
State: Released	Rev: 00	CONFIDENTIAL	A4 Page 1