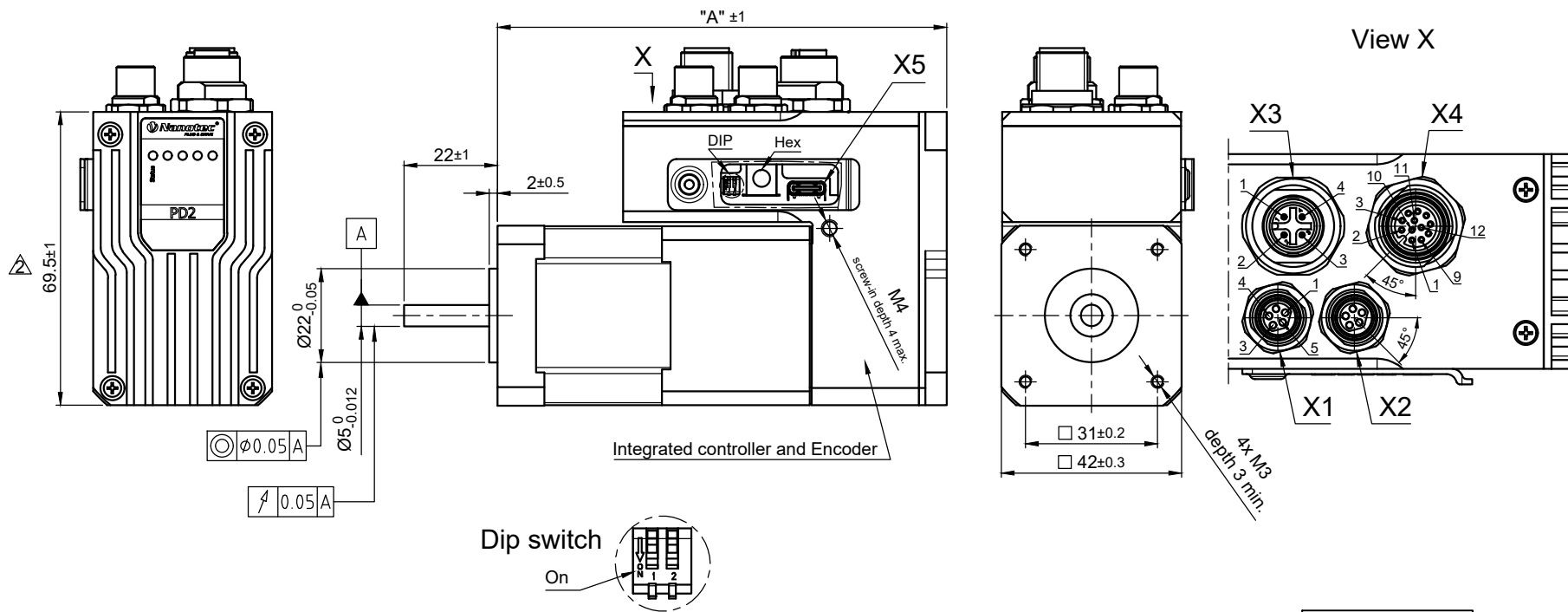


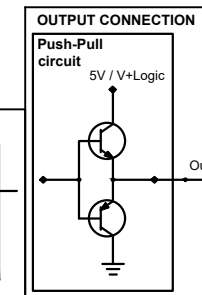
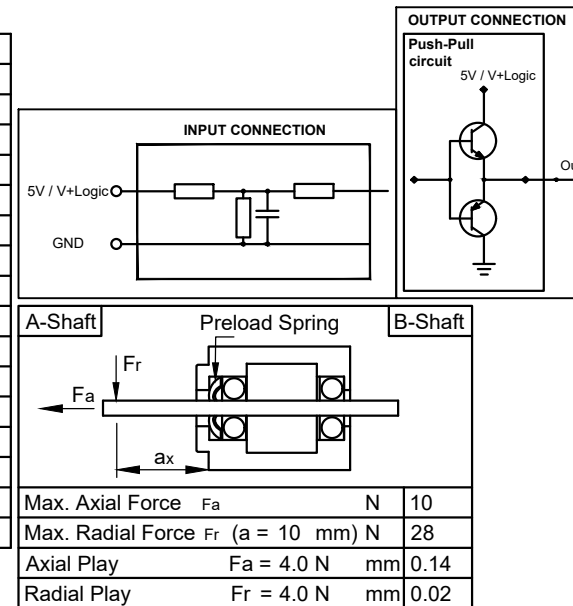


X1 CANopen IN	
M8/ 5-Pole / B-Coding / female	
cable shield on housing	
X2 CANopen OUT	
M8/ 5-Pole / B-Coding / female	
Pin No.	Function
1	V+Logic
2	CAN SHLD
3	CAN_H
4	CAN_L
5	GND
cable shield on housing	
X3 POWER	
M12 / 4-Pole / A-Coding / male	
Pin No.	Function
1	V+
2	V+
3	GND
4	GND
cable shield on housing	
X4 IO	
M12 / 12-Pole / A-Coding / female	
Pin No.	Function
1	GND
2	Input 1
3	Input 2
4	Input 3
5	Input 4
6	Analog Input1
7	Analog Input2
8	Output 1 (push-pull)
9	Output 2 (push-pull)
10	V+Logic
11	Brake +
12	Brake -
cable shield on housing	
X5 USB	
Type C	

MOTOR SPECIFICATION											
PD2-EB42xx-x-65-2	MB-E	MB-M	LB-E	LB-M	MD-E	MD-M	LD-E	LD-M	CD-E	CD-M	
Motor Length "A" mm	98.5	105.8	118.5	125.8	98.5	105.8	118.5	125.8	138.5	145.8	
No. of Poles	6				6						
Rated Voltage V DC	24				48						
Operating Voltage -5%/+20% V DC	12 ... 48										
Resistance Line to Line (20°C) ±15% Ω	1.05		0.54		4.3		2.2		1.5		
Inductance Line to Line (1kHz) ±20% mH	0.75		0.45		2.65		1.7		1.25		
Current - Rated / Peak A	3.1 / 9.3		4.8 / 14.4		1.5 / 4.6		2.4 / 7.2		3.66 / 11		
Torque - Rated / Peak Nm	0.17/ 0.51		0.3 / 0.9		0.17 / 0.51		0.3 / 0.9		0.44 / 1.32		
Torque Constant Nm/A	0.055		0.0625		0.11		0.125		0.12		
Power Rated W	53		94		53		94		138		
Speed - No Load / Rated ±10% rpm	3900 / 3000		3750 / 3000		3900 / 3000		3750 / 3000		3700 / 3000		
Rotor Inertia kg m²	6.0 x10 ⁻⁶		8.0 x10 ⁻⁶		6.0 x10 ⁻⁶		8.0 x10 ⁻⁶		16.7x10 ⁻⁶		
Multiturn Encoder Resolution bit	-	16	-	16	-	16	-	16	-	16	
Singleturn Encoder Resolution bit	16	17	16	17	16	17	16	17	16	17	
Weight ±10% kg	0.63	0.65	0.83	0.85	0.63	0.65	0.83	0.85	1.1	1.1	

GENERAL MOTOR SPECIFICATION	
Interface	CANOPEN
Ambient Temperature	°C -10 ... 40
Storage Temperature	°C -20 ... 85
Max. Ambient Humidity (non condensing)	% 85
Insulation Class	B
Insulation Resistance (@500VDC)	MΩ 100
Dielectric Strength (for 1 sec - coil to case)	V AC 600
Protection Class (except shaft outlet)	IP65

ISO 8015		ISO 1302		ISO 2768 cK		ISO 13715	
					Date		Name
					Drawn	23.10.2025	Schneid_A
					Reviewed	19.01.2026	Reith_S
					Released	19.01.2026	Reith_S
02	change dimension	Reith_S	06.07.2026				
01	change storage temp.	Schneid_A	19.02.2026				
REV	Rev. Text	Name	Date				



A-Shaft	Preload Spring	B-Shaft
Max. Axial Force Fa	N	10
Max. Radial Force Fr (a = 10 mm)	N	28
Axial Play	Fa = 4.0 N	mm 0.14
Radial Play	Fr = 4.0 N	mm 0.02

PD2-EB42xx-x-65-2			
20003281			
State: Released		Rev: 02	CONFIDENTIAL
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