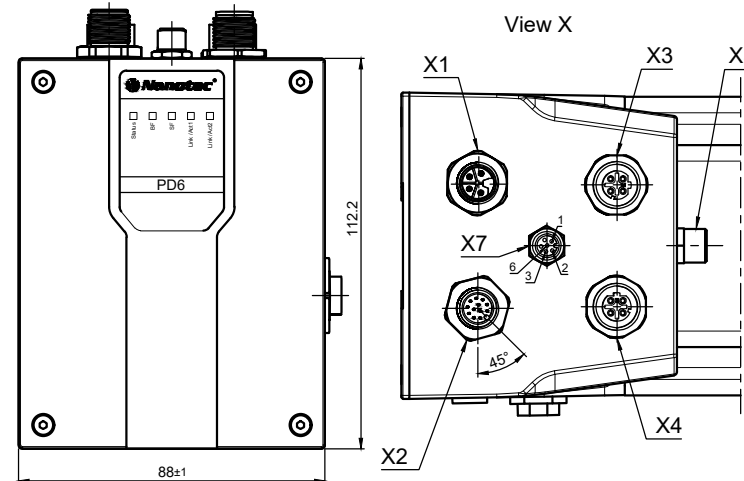




X1 POWER	
M12 / 4-Pole / L-Coding / male	
Pin No.	Function
1	+UB
2	+UB
3	GND
4	GND
cable shield on housing	

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	

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
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	

X3 PROFINET IN	
M12/ 4-Pole / D-Coding / female	
cable shield on housing	
X4 PROFINET OUT	
M12/ 4-Pole / D-Coding / female	
Pin No.	Function
1	TD+
2	RD+
3	TD-
4	RD-
cable shield on housing	

MOTOR SPECIFICATION							
PD6-E891xxx-xx-65-10		S95-MS	S95-ES	M95-MS	M95-ES	L95-MS	L95-ES
Motor Length "A"	mm	112		145		175	
Min. Operating Voltage	V DC			12			
Nominal Operating Voltage	V DC			48			
Max. Operating Voltage	V DC			57.6			
Current per Winding	A			9.5			
Step Angle	±5% °			1.8			
Holding Torque	Nm	3.2		5.94		9.33	
Rotor Inertia	kg m ²	100 x10 ⁻⁶		190 x10 ⁻⁶		300 x10 ⁻⁶	
Multiturn Encoder Resolution	bit	16	-	16	-	16	-
Singleturn Encoder Resolution	bit	17	12	17	12	17	12
Weight	kg	±10% 2.5		±10% 3.7		±10% 5.0	

GENERAL MOTOR SPECIFICATION		
Interface		PROFINET
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	23.04.2025	Schneid_A	
				Reviewed	02.10.2025	Reith_S	
				Released	02.10.2025	Reith_S	
01	Ä.Nr. 2025-0066	Schneid_A	04.11.2025	 Nanotec [®] <i>PLUG & DRIVE</i>			
REV	Rev. Text	Name	Date				

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20002943			A4 Page 1
State: Released	Rev: 01	CONFIDENTIAL	