

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	

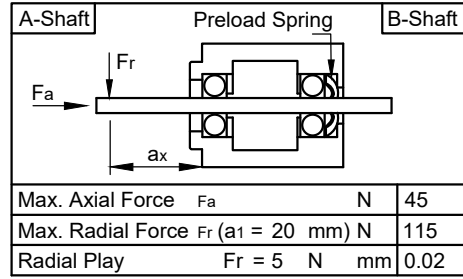
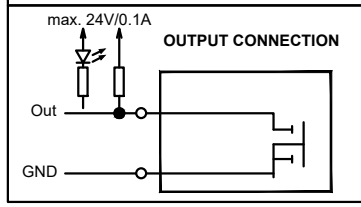
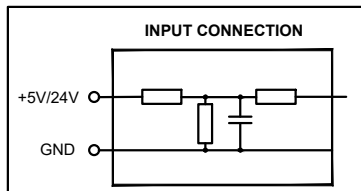
X5 Brake OUT	
M8 / 3-Pole / A-Coding / female	
PIN No.	Function
1	Vcc
3	GND
4	n.c.
cable shield on housing	

X6 Mini-USB	
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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	

X3 CANopen IN	
M12 / 5-Pole / A-Coding / male	
cable shield on housing	

X4 CANopen OUT	
M12 / 5-Pole / A-Coding / female	
Pin No.	Function
1	CAN_SHLD
2	+UB Logic (24V)
3	GND
4	CAN+
5	CAN-
cable shield on housing	



MOTOR SPECIFICATION								
PD6-EB80xx-xx-65-2	SD-MS	SD-ES	MD-MS	MD-ES	LD-MS	LD-ES	CD-MS	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 m <sup>2</sup>	54.4 x 10 <sup>-6</sup>		102 x 10 <sup>-6</sup>		136 x 10 <sup>-6</sup>		190 x 10 <sup>-6</sup>
Multiturn Encoder Resolution	bit	16	-	16	-	16	-	16
Singleturn Encoder Resolution	bit	17	12	17	12	17	12	17
Weight	kg	±10% 2.0		±10% 2.7		±10% 3.1		±10% 3.8

GENERAL MOTOR SPECIFICATION		
Interface	CANOPEN	
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	08.05.2025 Schneid_A
		Reviewed	02.10.2025 Reith_S
		Released	02.10.2025 Reith_S
REV	Rev. Text	Name	Date



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State: Released      Rev: 00      CONFIDENTIAL

A4 Page 1