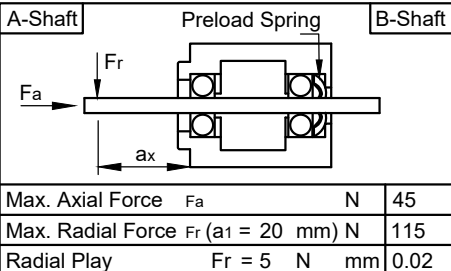
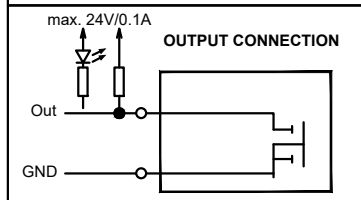
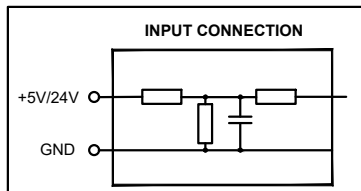


Integrated controller and Encoder
 black varnish for IP65 except for shaft output

MOTOR SPECIFICATION								
PD6-EB80xx-x-65-1	SD-M	SD-E	MD-M	MD-E	LD-M	LD-E	CD-M	CD-E
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 ²	54.4 x 10 ⁻⁶	102 x 10 ⁻⁶	136 x 10 ⁻⁶	190 x 10 ⁻⁶			
Multiturn Encoder Resolution	bit	17	-	17	-	17	-	-
Singleturn Encoder Resolution	bit	16	12	16	12	16	12	12
Weight	kg	~2.0	~2.7	~3.1	~3.8			



Max. Axial Force F_a	N	45
Max. Radial Force F_r ($a_1 = 20$ mm)	N	115
Radial Play $F_r = 5$ N	mm	0.02

X3 EtherCAT IN	
M12 / 4-Pole / D-Coding / female	

X4 EtherCAT OUT	
M12 / 4-Pole / D-Coding / female	
Pin No.	Function
1	TD+
2	RD+
3	TD-
4	RD-

X5 Brake OUT	
M8 / 3-Pole / A-Coding / female	
PIN No.	Function
1	Brake
3	Brake GND
4	N.C.

X6 Mini-USB	
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X1 POWER	
M12 / 4-Pole / L-Coding / male	
Pin No.	Function
1	+UB
2	+UB
3	GND
4	GND

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)

GENERAL MOTOR SPECIFICATION	
Interface	ETHERCAT
Ambient Temperature	-10 ... 40 °C
Switch-off Temperature	75 °C
Max. Ambient Humidity (non condensing)	85 %
Protection Class (except shaft outlet)	IP65
Protection Class (shaft outlet)	IP54

ISO 8015		ISO 1302		ISO 2768 cK		ISO 13715	
				Date	Name		
				Drawn	28.07.2022	Schneid_A	
				Reviewed	02.08.2022	Rehse_P	
02	correct pos. USB Con.	Schneid_A	06.09.2022	Released	02.08.2022	Rehse_P	
01	added remarks	Rehse_P	17.08.2022				
REV	Rev. Text	Name	Date				



PD6-EB80xD-x-65-1

20001579

State: Released Rev: 02 CONFIDENTIAL