

X1 EtherCAT IN	
M12/ 4-Pole / D-Coding / female	

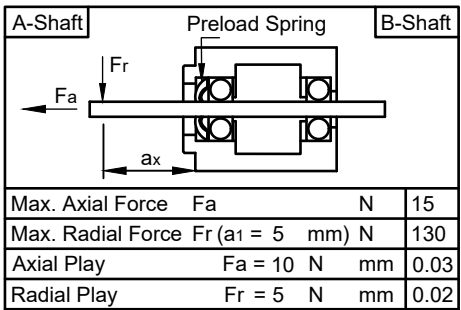
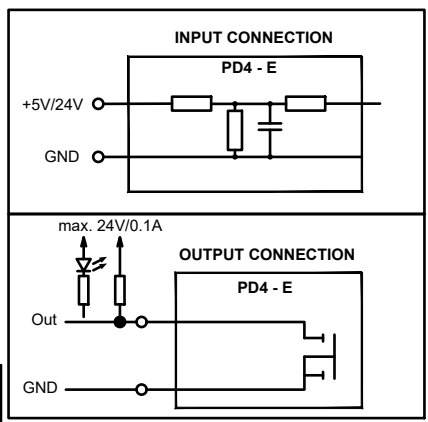
X2 EtherCAT OUT	
M12/ 4-Pole / D-Coding / female	
Pin No.	Function
1	TD+
2	RD+
3	TD-
4	RD-

X3 POWER	
M12 / 5-Pole / B-Coding / male	
Pin No.	Function
1	+UB (12-48V)
2	+UB (12-48V)
3	GND
4	GND
5	N.C.

X4 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)

MOTOR SPECIFICATION			
No. of Poles	6		
Rated Voltage	V DC	48	
Operating Voltage - Min. / Max.	V DC	12	48
Current - Rated / Peak	A	6	18
Torque - Rated / Peak	Nm	0.6	1.8
Torque Constant	Nm/A	0.1	
Power - Rated / Peak	W	220	660
Speed - No Load / Rated	±10% rpm	4500	3500
Singleturn Encoder Resolution	bit	17	
Multiturn Encoder Resolution	bit	16	
Rotor Inertia	kg m ²	17.3	x10 ⁻⁶

GENERAL MOTOR SPECIFICATION			
Interface	ETHERCAT		
Ambient Temperature	°C	Min. -10	Max. 40
Switch-off Temperature	°C	75	
Max. Ambient Humidity (non condensing)	%	85	
Insulation Class	B		
Insulation Resistance	MΩ	100	
Dielectric Strength (for 1 min - coil to case)	V AC	500	
Protection Class (except shaft outlet)	IP65		



ISO 8015	ISO 1302	ISO 2768-1 cK	ISO 13715	Weight: ~1.45 kg
03	correct draw., +hole	Schneid_A	Drawn	Date 04.12.2017 Name Import
02	correct Pos. Connector	Schneid_A	Checked	11.01.2018 Wang_X
01	new enc. - changed values	Schneid_A	Approved	11.01.2018 Wang_X
REV	Rev. Text	Name	Rel. Date	

PD4-EB59CD-M-65-1

09000014

State: Released Rev: 03

