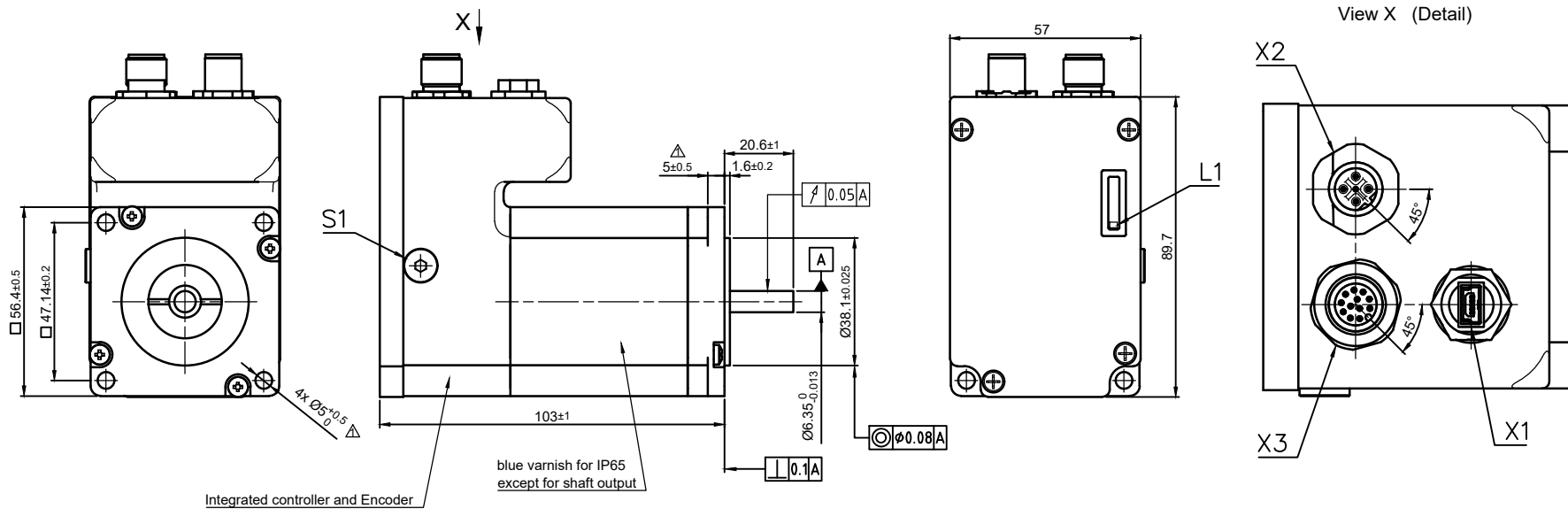
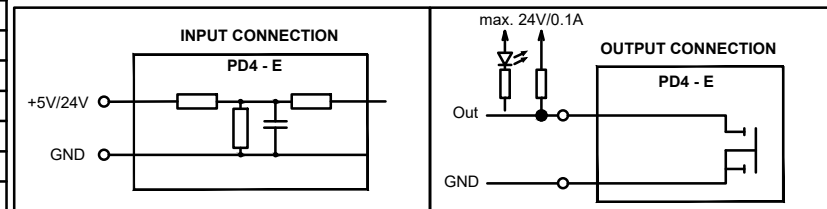




X1	Mini-USB
X2	POWER
M12 / 5-Pole / B-Coding / male	
Pin No.	Function
1	+UB (12-48V)
2	+UB (12-48V)
3	GND
4	GND
5	N.C.
X3	IO
M12 / 12-Pole / A-Coding / male	
Pin No.	Function
1	GND
2	Input 1 (+5V/+24V)
3	Input 2 (+5V/+24V)
4	Input 3 (+5V/+24V)
5	Input 4 (+5V/+24V)
6	Input 5 (+5V/+24V)
7	Input 6 (+5V/+24V)
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		
Min. Operating Voltage	V DC	12
Max. Operating Voltage	V DC	48
Current per Winding	A	4.2
Holding Torque	Nm	1.87
Step Angle	°	1.8 ±5%
Rotor Inertia	kg m ²	48 x10 ⁻⁶
Singleturn Encoder Resolution	bit	12



A-Shaft	Preload Spring	B-Shaft
Max. Axial Force	Fa	N
Max. Radial Force	Fr (a ₁ = 20 mm)	N
Axial Play	Fa = 200N	mm
Radial Play	Fr = 4.5 N	mm

GENERAL MOTOR SPECIFICATION		
Interface	USB	
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 cK	ISO 13715	Weight: ~1.3 kg	
			Date	Name	
			Drawn	04.12.2017	Import
			Reviewed	11.01.2018	Wang_X
			Released	11.01.2018	Wang_X
01	change tol. diameter 5	Reith_S	19.07.2022		
REV	Rev. Text	Name	Date		
				PD4-E591L42-E-65-7-CYL	
				07000070	
				A4 Page 1	
				State: Released	
				Rev: 01	
				CONFIDENTIAL	