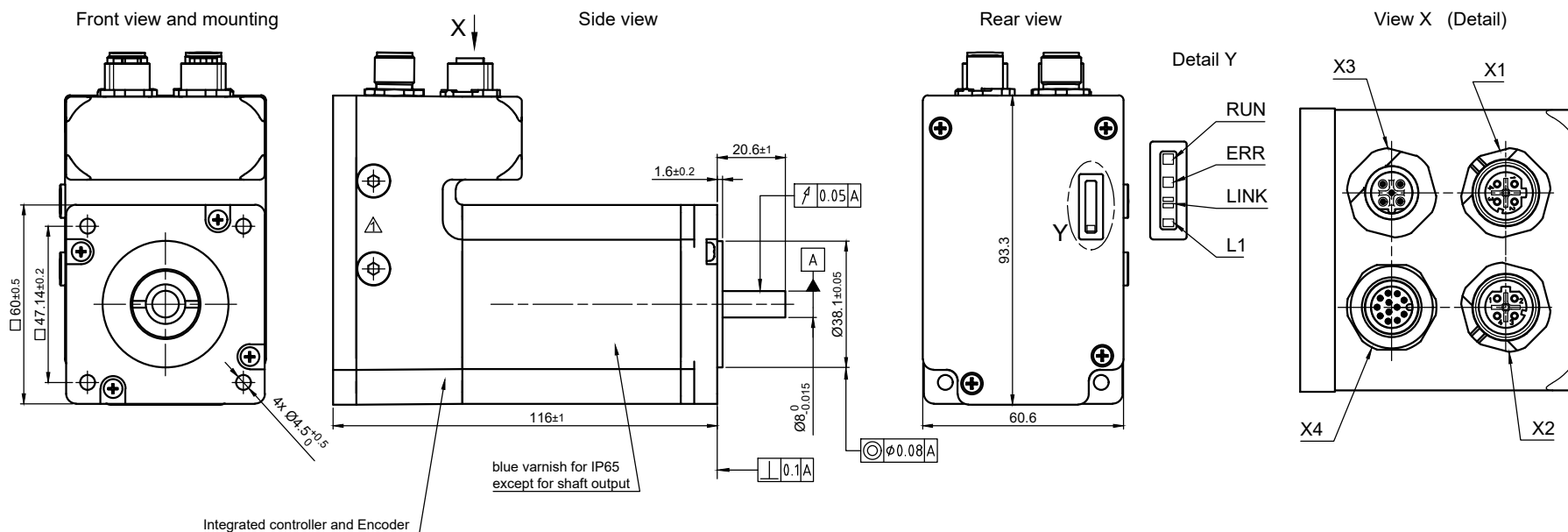
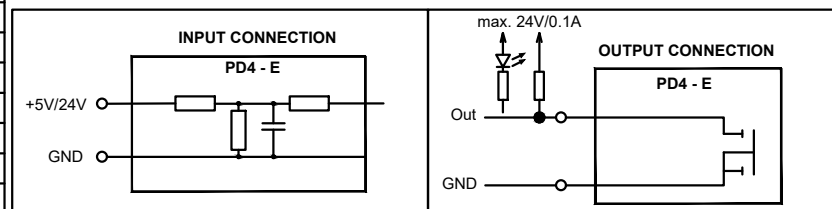
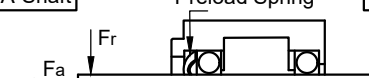




X1 EtherCAT IN	
M12/ 4-Pole / D-Coding / female	
X2 EtherCAT OUT	
M12/ 4-Pole / D-Coding / female	
Pin No.	Function
1	TD+
2	RD+
3	TD-
4	RD-
X3 POWER	
M12 / 5-Pole /B-Coding / male	
Pin No.	Function
1	+UB (12-48V)
2	+UB (12-48V)
3	GND
4	GND
5	N.C.
X4 IO	
M12 / 12-Pole / A-Coding / male	
Pin No.	Function
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			
Min. Operating Voltage	V DC	12	
Max. Operating Voltage	V DC	48	
Current per Winding	A	4.2	
Holding Torque	Nm	3.54	
Step Angle	°	1.8	±5%
Rotor Inertia	kg m ²	84	x10 ⁻⁶
Singleturn Encoder Resolution	bit	12	



A-Shaft		Preload Spring		B-Shaft	
					
Max. Axial Force	Fa	N	15		
Max. Radial Force	Fr (a1 = 20 mm)	N	52		
Axial Play	Fa = 200N	mm	0.2		
Radial Play	Fr = 4.5 N	mm	0.02		

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 cK		ISO 13715	
					Date		Name
					Drawn	04.12.2017	Import
					Reviewed	11.01.2018	Wang_X
					Released	11.01.2018	Wang_X
01	unification PD4 -GM	Schneid_A	25.03.2021				
REV	Rev. Text	Name	Date				



			Weight: ~1.5		kg
PD4-E601L42-E-65-1-CYL					
07000073					
				A4 Page 1	
State: Released		Rev: 01		CONFIDENTIAL	
					