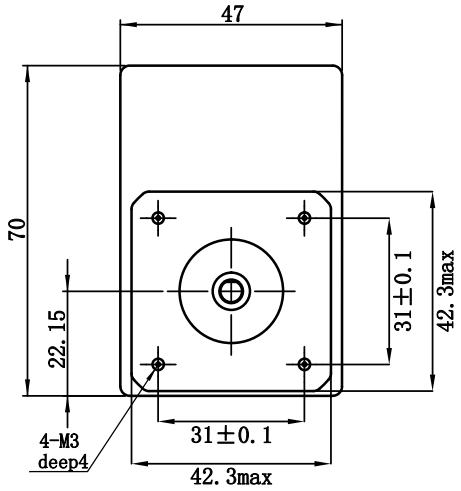
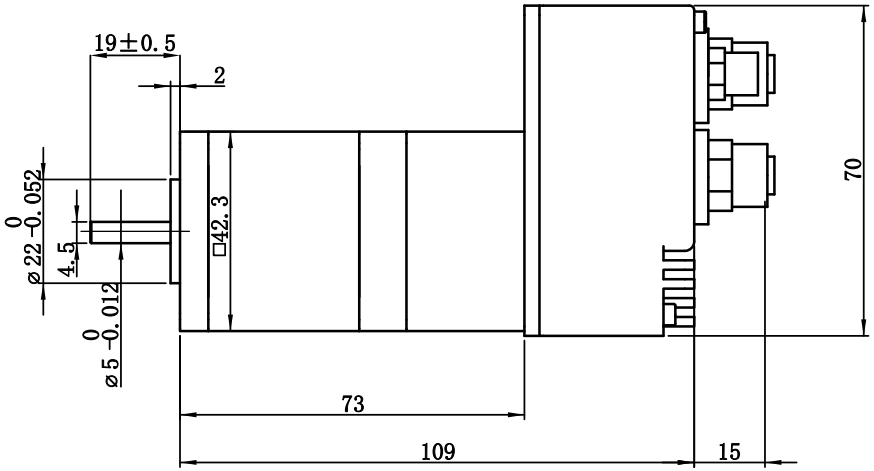
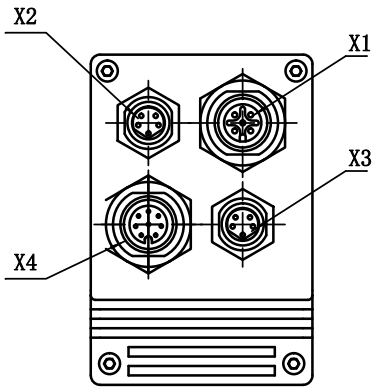
Front view and mounting



Side view





Note:Input1-3 Predefine the following functions.User can switch to universal input point via command.

X2 Fieldbus IN (M8,5-Pole，B-coding,female) X3 Fieldbus OUT (M8,5-Pole，B-coding,female)			
PDME...-2		PDME...-5	PDME...-1
Pin No.	Function	Function	Function
1	NC	NC	Tx+
2	NC	NC	Tx-
3	CAN_H	RS485-A	Rx+
4	CAN_L	RS485-B	Rx-
5	GND	GND	GND

X1 Power (M12,4-Pole，A-coding,female)	
Pin No.	Function
1	+UB (12-48V)
2	+UB (12-48V)
3	GND
4	GND

X4 IO (M12,8-Pole，A-coding,female)	
Pin No.	Function
1	Input1(Negative Limit PNP 24V)
2	Input2(Positive limit PNP 24V)
3	Input3(Home switch PNP 24V)
4	Input4(No predefined PNP 24V)
5	Analog Input (0-10V)
6	Output1 (open drain)
7	Output2 (open drain)
8	GND

电动机规格书/Motor Specification

电流/Rated Current(Phase) A	1.5A
步矩角/Step Angle	1.8°
电阻(相)/Resistance (Phase) @20° C	2.0Ω±10%
电感(相)/Inductance (Phase) @1KHz	3.8mH±20%
步矩角误差（空载）/Accuracy(no-load)	±0.09° 以下/Max
保持力矩/Holding Torque	500 mN.m
转子惯量/Rotor Inertia	82 g.cm²
绝缘等级（UL）/Insulation Class(UL)	B
质量/Mass	≈0.45Kg
绝缘耐压/Dielectric Strength	500V A.C
绝缘电阻/Insulation Resistance	100MΩ以上/Min
温升/Temperature Rise	80K以下/Max
使用温度范围/Operation Ambient Temperature	-20℃~+70℃
使用湿度范围/Operation Ambient Humidity	20%RH~90%RH
编码器分辨率/Encoder Resolution	17Bit
圈数/Encoder Range	±16Bit
防护等级/IP	IP65(除开轴端)

备注内容/ Discription

CODE	ITEM	NOTE	DATA
1.04.0014.02.1	PDME4204BE17D5-1	EtherCAT	05.29
1.04.0014.02.2	PDME4204BE17D5-2	CANOPEN	05.29
1.04.0014.02.5	PDME4204BE17D5-5	MODBUS-RTU	05.29

RoHS COMPLIANT CE

版本 Edition	变更内容 Revisions	设计 Designed	日期 DATE
C			
B			
A	初版/First Edition		

42一体化多圈绝对值式闭环电机

型号 Model	PDME42L04BE17D5-X						
批准 Approved	J.Song	22.11.25		材质 Material			
审核 Checked	CB.Y	22.11.25				No.	Sheet
制图 Drawn	QC.Y	22.11.25		比例 Scale	1:1	页 Sheet	1/2