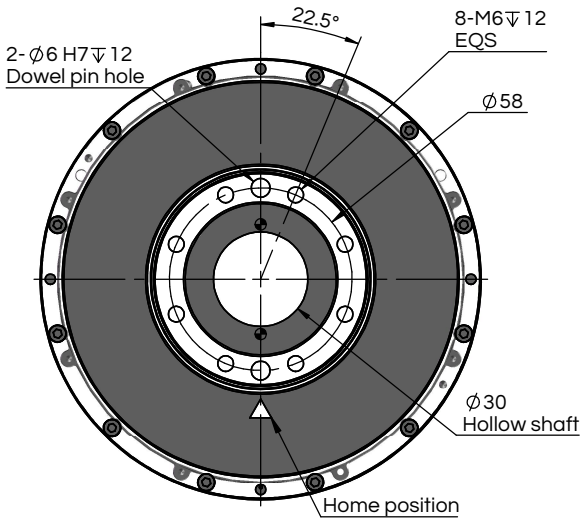
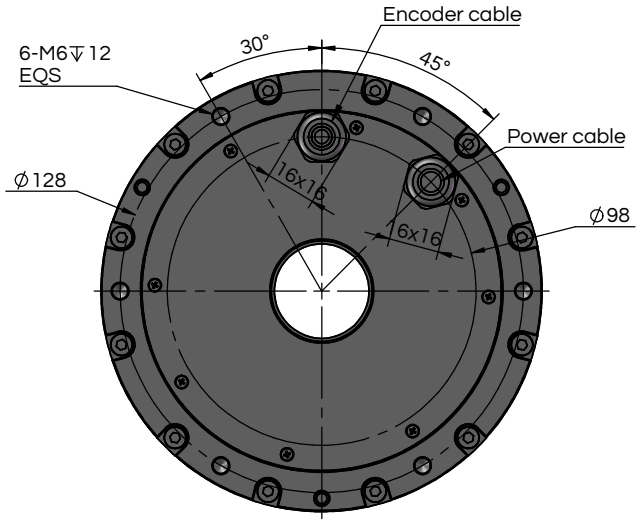
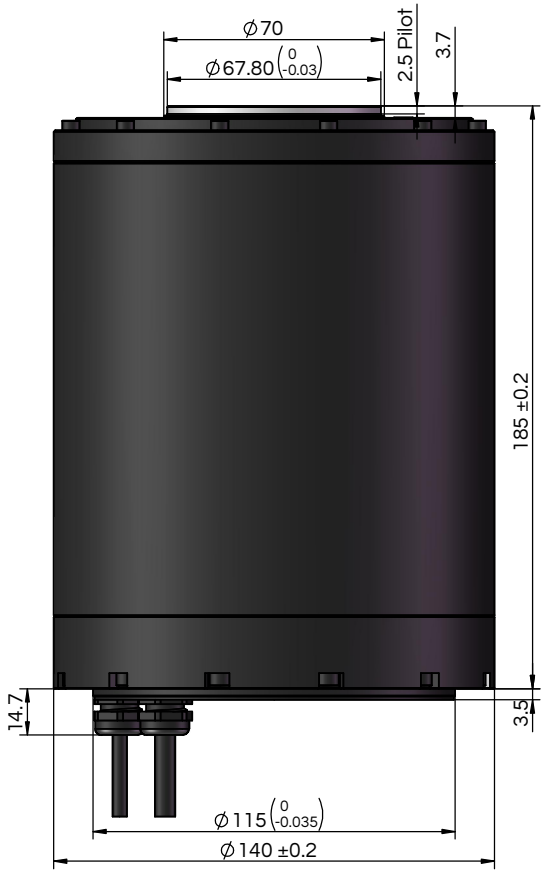






No.	Specification	Unit	Value
1	Continuous Torque	Nm	37
2	Peak Torque	Nm	86
3	Rated Speed	Rpm	330
4	Maximum Speed	Rpm	360
5	Continuous Current	Arms	9
6	Peak Current	Arms	27
7	Torque Constant	Nm/Arms	4.1
8	Back EMF Constant*	Vrms/rad/s	2.5
9	Resistance Phase to Phase at 25°C	Ω	2.2
10	Inductance Phase to Phase at 25°C	mH	12.8
11	Number of poles	-	20
12	Rotor Inertia	$kg{\cdot}m^2$	0.0041
13	Incremental encoder resolution	ppr	3100000
14	Absolute encoder resolution	ppr	24bit (16777216)
15	Absolute Position Accuracy	arcsec	±15
16	Repeat Position Accuracy	arcsec	±2
17	Axial Load	N	5000
18	Radial Load	Nm	35
19	Axial Run Out*2	um	5/3
20	Radial Run Out*3	um	5/3
21	Mass	kg	14
22	IP level	-	40
23	Motor Color	-	black
24	Max. DC BUS	V	220

*1 The back electromotive force (back EMF) is the value measured between any two conductors when the motor is running at a constant speed.
*2 *3 Please contact sales.

NOTE:
1.Please make sure the flatness of customer's surface when mounting the motor must be within 0.01/300 mm.
2.The mounting surface without black oxidation.

Wiring Definition	Installation Instructions	Maintenance Instructions

ITEM	DATE	MODIFIED	DESCRIPTION	APPD

TKOOLLE MOTION CONTROL	SCALE	1:X	UNIT	mm		Model	TDI-140185-P		
						Desc	Rotary Motor		
	GENERAL TOLERANCE					Surface	Black oxidation	DRN	Tang
	Up to 6	6 to 30	30 to 120	120 to 300	300 to 600	DWG.NO	M140A028	CHK	Zhou
	±0.1	±0.2	±0.3	±0.4	±0.5	Sheet	1-1	APPD	Le
TKOOLLE MOTION CONTROL INTERNATIONAL CO.,LIMITED						DATE	17-Jul-25		