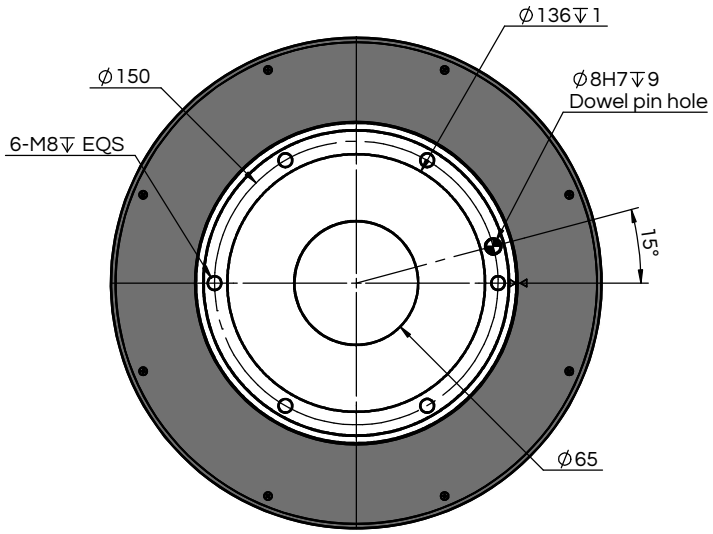
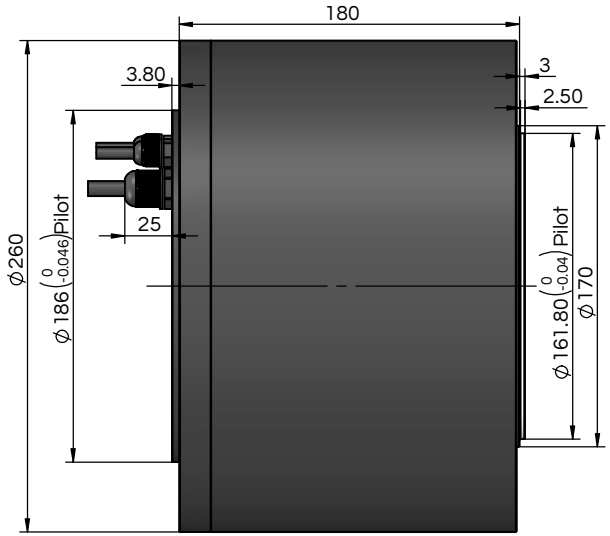
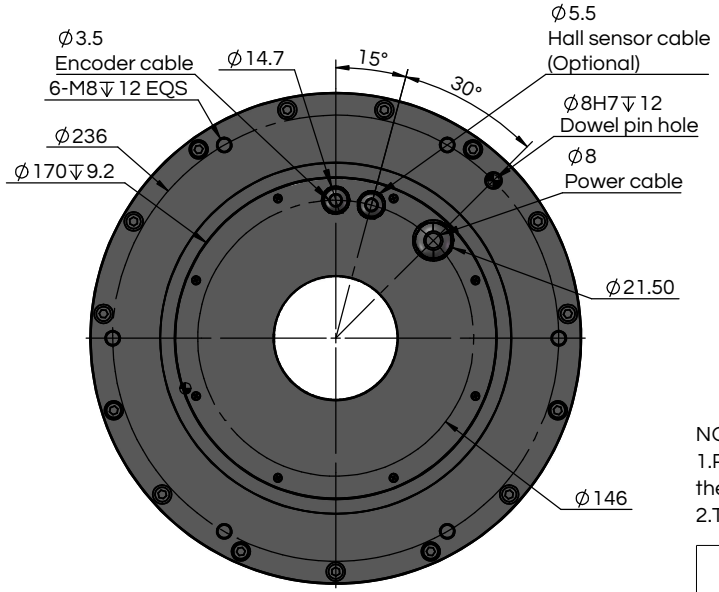






No.	Specification	Unit	Value
1	Flange-type	-	–
2	Continuous Torque	Nm	186
3	Peak Torque	Nm	550
4	Rated Speed	Rpm	200
5	Maximum Speed	Rpm	300
6	Continuous Current	Arms	10
7	Peak Current	Arms	30
8	Torque Constant	Nm/Arms	18.6
9	Back EMF Constant*	Vrms/rad/s	9.75
10	Resistance Phase to Phase at 25°C	Ω	3.4
11	Inductance Phase to Phase at 25°C	mH	15.8
12	Number of poles	-	40
13	Rotor Inertia	$kg{\cdot}m^2$	0.086
14	Incremental encoder resolution	ppr	2227200
15	Absolute encoder resolution	ppr	24bit (16777216)
16	Absolute Position Accuracy	arcsec	±15
17	Repeat Position Accuracy	arcsec	±2
18	Axial Load	N	16000
19	Radial Load	Nm	130
20	Axial Run Out*2	um	5/3 (optional)
21	Radial Run Out*3	um	5/3 (optional)
22	Mass	kg	46
23	IP level	-	40
24	Motor Color	-	black
25	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	UNIT		Model	TDI-250180-P		
1:X	mm		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	M250A085	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