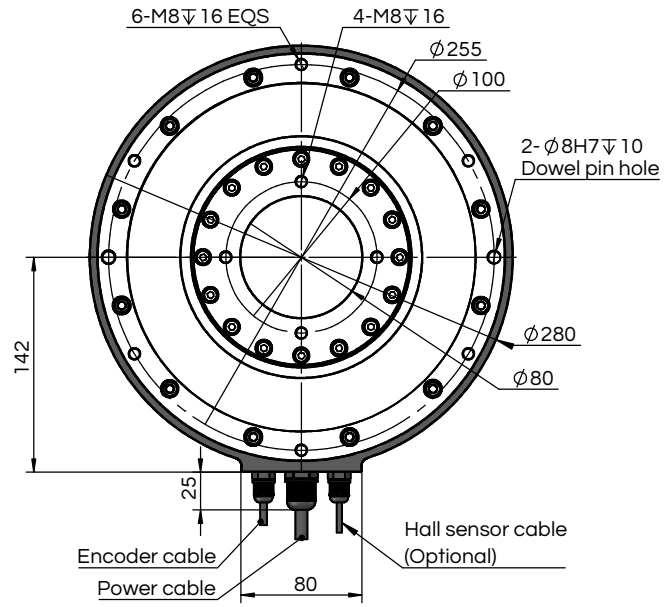
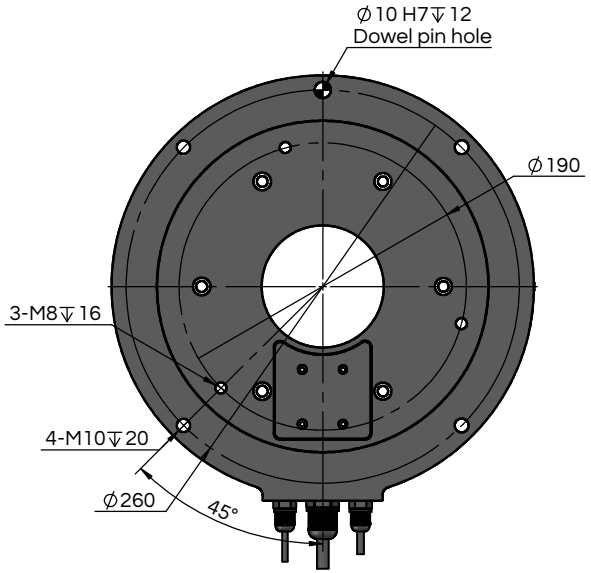
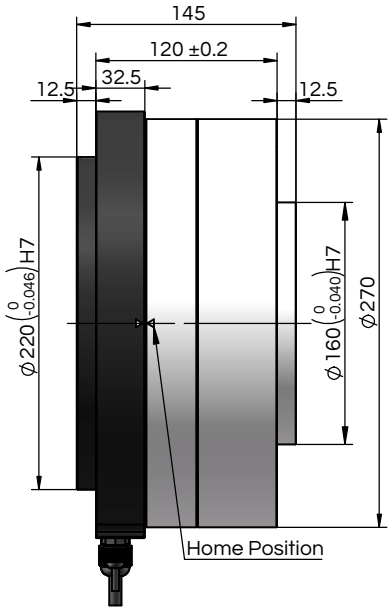






No.	Specification	Unit	Value
1	Flange-type	-	-
2	Continuous Torque	Nm	49.8
3	Peak Torque	Nm	149
4	Rated Speed	Rpm	60
5	Maximum Speed	Rpm	100
6	Continuous Current	Arms	5.4
7	Peak Current	Arms	16.2
8	Torque Constant	Nm/Arms	9.2
9	Back EMF Constant*	Vrms/rad/s	5.57
10	Resistance Phase to Phase at 25°C	Ω	4.7
11	Inductance Phase to Phase at 25°C	mH	10.8
12	Number of poles	-	44
13	Rotor Inertia	$kg{\cdot}m^2$	0.143
14	Incremental encoder resolution	ppr	4350000
15	Absolute encoder resolution	ppr	24bit (16777216)
16	Absolute Position Accuracy	arcsec	±15
17	Repeat Position Accuracy	arcsec	±2
18	Axial Load	N	42000
19	Radial Load	Nm	500
20	Axial Run Out*2	um	5
21	Radial Run Out*3	um	5
22	Mass	kg	27
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	1:X	UNIT	mm		Model	TDI-280120-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	M280A103	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		