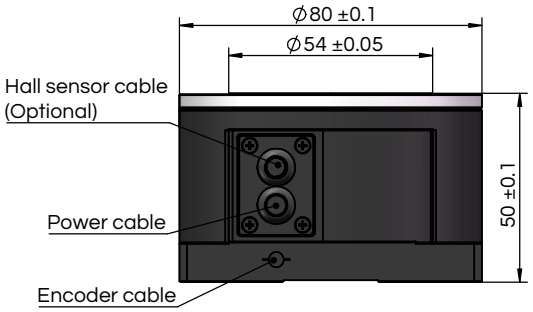
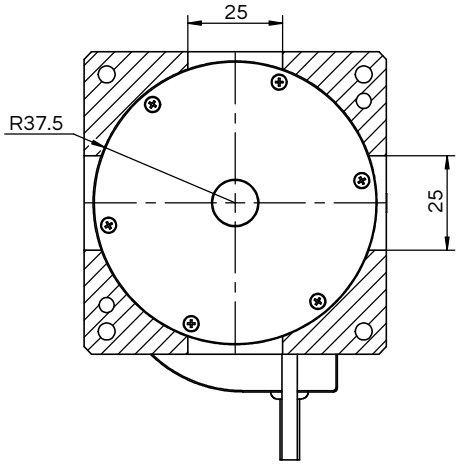
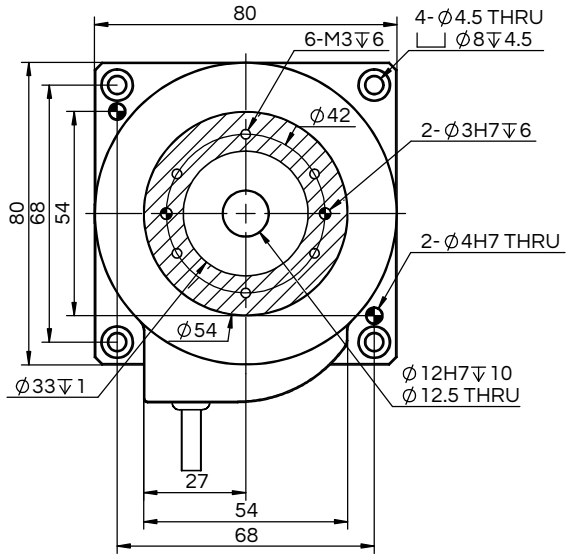
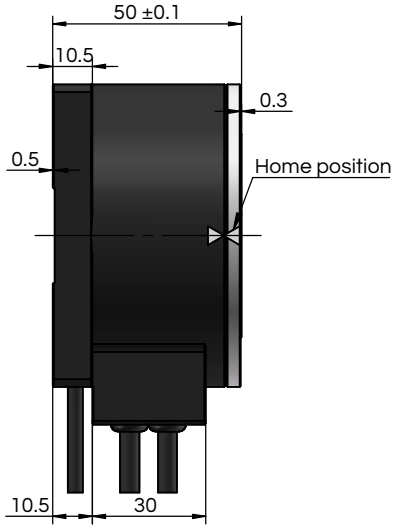








No.	Specification	Unit	Value
1	Flange-type	-	√
2	Continuous Torque	Nm	1.1
3	Peak Torque	Nm	3.3
4	Rated Speed	Rpm	300
5	Maximum Speed	Rpm	500
6	Continuous Current	Arms	0.9
7	Peak Current	Arms	3.1
8	Torque Constant	Nm/Arms	1.2
9	Back EMF Constant*	Vrms/rad/s	0.82
10	Resistance Phase to Phase at 25°C	Ω	23.2
11	Inductance Phase to Phase at 25°C	mH	18.9
12	Number of poles	-	20
13	Rotor Inertia	$kg{\cdot}m^2$	0.00017
14	Incremental encoder resolution	ppr	1800000
15	Absolute encoder resolution	ppr	24bit
16	Absolute Position Accuracy	arcsec	±30
17	Repeat Position Accuracy	arcsec	±4
18	Axial Load	N	800
19	Radial Load	Nm	9
20	Axial Run Out*2	um	20/5
21	Radial Run Out*3	um	20
22	Mass	kg	1.25
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-080050			
							Desc	Rotary Motor			
	GENERAL TOLERANCE						Surface	Black oxidation		DRN	Tang
	Up to	6	30	120	300	600	DWG.NO	M080A009		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			