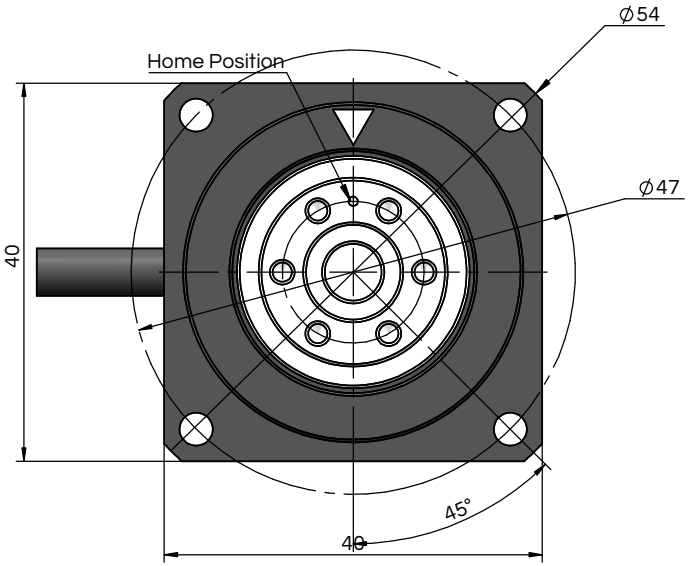
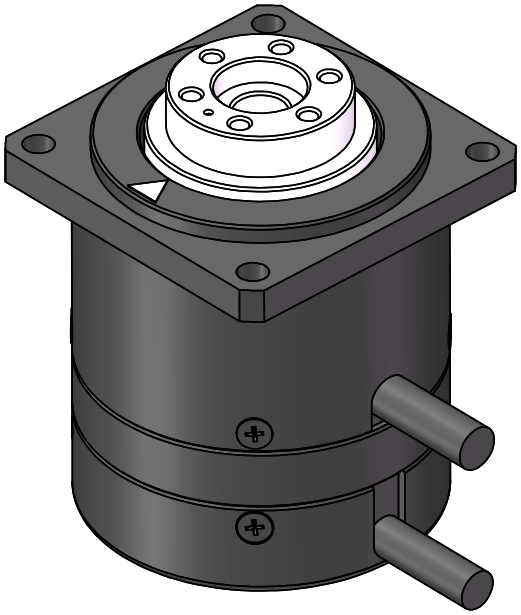
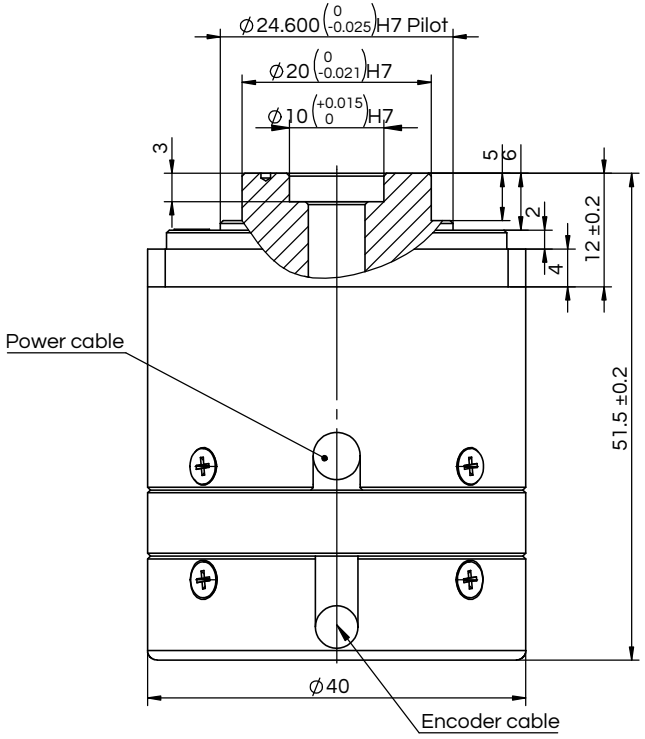






No.	Specification	Unit	Value
1	Flange-type	-	-
2	Continuous Torque	Nm	0.1
3	Peak Torque	Nm	0.3
4	Rated Speed	Rpm	500
5	Maximum Speed	Rpm	600
6	Continuous Current	Arms	3
7	Peak Current	Arms	9
8	Torque Constant	Nm/Arms	0.03
9	Back EMF Constant*	Vrms/rad/s	0.06
10	Resistance Phase to Phase at 25°C	Ω	2.2
11	Inductance Phase to Phase at 25°C	mH	1
12	Number of poles	-	14
13	Rotor Inertia	$kg{\cdot}m^2$	0.0000076
14	Incremental encoder resolution	ppr	1000000
15	Absolute encoder resolution	ppr	-
16	Absolute Position Accuracy	arcsec	±50
17	Repeat Position Accuracy	arcsec	±5
18	Axial Load	N	600
19	Radial Load	Nm	5
20	Axial Run Out*2	um	10 (optional)
21	Radial Run Out*3	um	10 (optional)
22	Mass	kg	0.35
23	IP level	-	40
24	Motor Color	-	black
25	Max. DC BUS	V	24-48

*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-040052		
						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	M040A002	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		