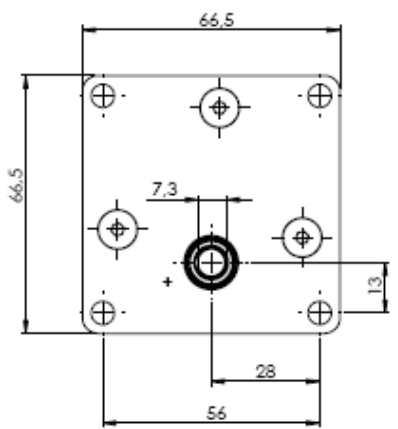
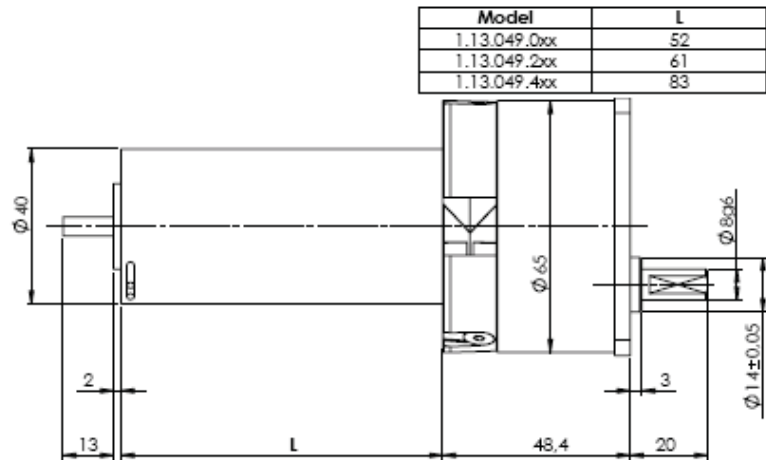


Gearbox + Motor **KT50-BHL 40**



Note: Pole (+): left side, view output shaft.



KT50

TECHNICAL CHARACTERISTICS

High endurance gearbox for heavy duty continuous workload in any position, at room temperature from -15 to 50°C, with torque load up to 5 Nm, steady load.

- **Box.** Made of die-cast Zamak with a tubular aluminium cover and aluminium frontal fixation flange.
- **Gear set.** Hobbed spur gear set with steel pinions and gear wheels, with case superficial heat anti-friction treatment. The intermediate gears turn on rectified hardened steel shafts, which are fixed to the box.
- **Output shaft.** Ø8 mm steel shaft, 20 mm usable length, with a flat. Incorporates and turns on ball bearings.
- **Output shaft load:**
 - Axial direction, pull or push 100 N ≈ 10 Kg.
 - Radial direction, at 10 mm from box 100 N ≈ 10 Kg.
- **Lubrication.** Lithium grade 2 grease.
- **Weight.** With maximal number of stages: 1.20 Kg.

MOTOR COUPLING:

- **Direct C.:** Bühler 1.13.049.xxx type, 12 or 24V.

■ OPTIONAL:

- Speed regulation with electronic controller.

Avoid impacts on the output shaft when assembling or disassembling parts on it, this could damage the gearbox.

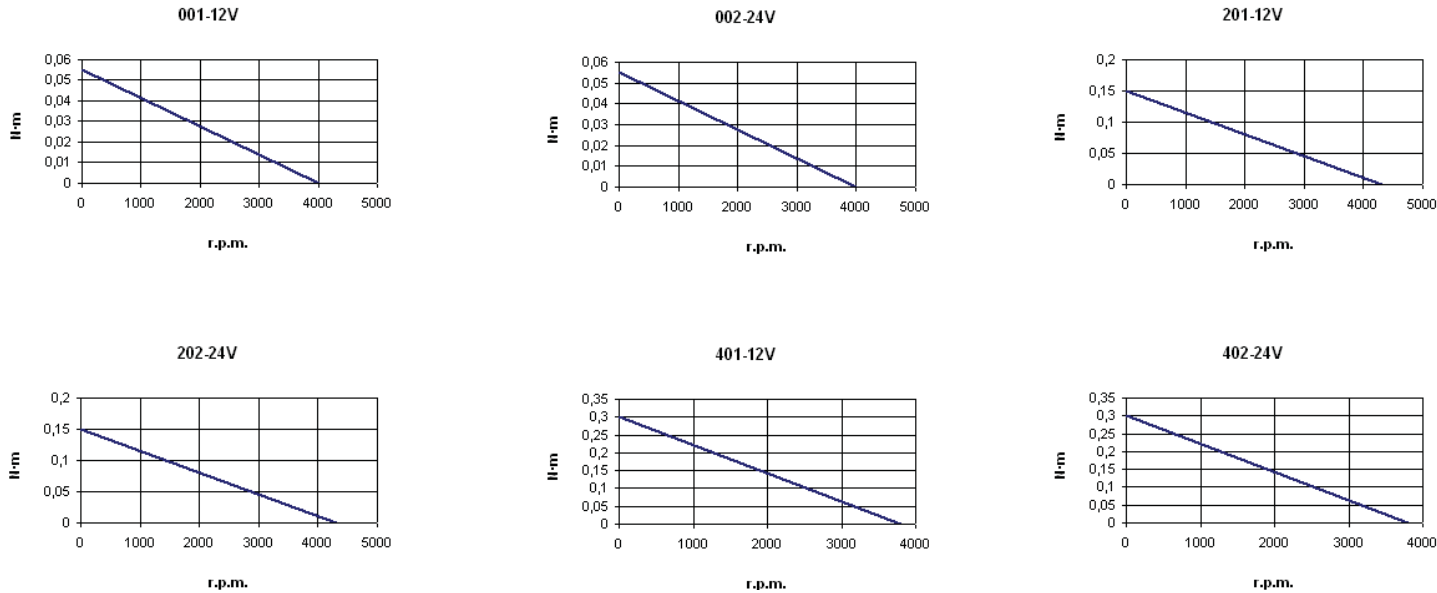
Your special requests are welcome.

DC MOTORS																				
MODEL:Bühler 40,xx (1,13,049,xxx)																				
			001-12V			002-24V			201-12V			202-24V			401-12V			402-24V		
Reduction ratio $i = X:1$	Stages	Torque Factor	No load speed n_0 (r.p.m.)	Nominal speed n_N (r.p.m.)	Nominal Torque (N.m)	No load speed n_0 (r.p.m.)	Nominal speed n_N (r.p.m.)	Nominal Torque (N.m)	No load speed n_0 (r.p.m.)	Nominal speed n_N (r.p.m.)	Nominal Torque (N.m)	No load speed n_0 (r.p.m.)	Nominal speed n_N (r.p.m.)	Nominal Torque (N.m)	No load speed n_0 (r.p.m.)	Nominal speed n_N (r.p.m.)	Nominal Torque (N.m)	No load speed n_0 (r.p.m.)	Nominal speed n_N (r.p.m.)	Nominal Torque (N.m)
1,44	1	1,30	2777,78	2083,33	0,02	2777,78	2083,33	0,02	2986,11	2152,78	0,05	2986,11	2152,78	0,05	2638,89	2083,33	0,08	2638,89	2083,33	0,08
2,17	1	1,95	1843,32	1382,49	0,03	1843,32	1382,49	0,03	1981,57	1428,57	0,08	1981,57	1428,57	0,08	1751,15	1382,49	0,12	1751,15	1382,49	0,12
3,46	2	2,80	1156,07	867,05	0,04	1156,07	867,05	0,04	1242,77	895,95	0,12	1242,77	895,95	0,12	1098,27	867,05	0,18	1098,27	867,05	0,18
4,79	2	3,88	835,07	626,30	0,05	835,07	626,30	0,05	897,70	647,18	0,16	897,70	647,18	0,16	793,32	626,30	0,25	793,32	626,30	0,25
9,28	2	7,52	431,03	323,28	0,10	431,03	323,28	0,10	463,36	334,05	0,31	463,36	334,05	0,31	409,48	323,28	0,47	409,48	323,28	0,47
12,88	2	10,43	310,56	232,92	0,14	310,56	232,92	0,14	333,85	240,68	0,44	333,85	240,68	0,44	295,03	232,92	0,66	295,03	232,92	0,66
15,07	3	10,99	265,43	199,07	0,15	265,43	199,07	0,15	285,34	205,71	0,46	285,34	205,71	0,46	252,16	199,07	0,69	252,16	199,07	0,69
19,54	3	14,24	204,71	153,53	0,20	204,71	153,53	0,20	220,06	158,65	0,60	220,06	158,65	0,60	194,47	153,53	0,90	194,47	153,53	0,90
29,19	3	21,28	137,03	102,77	0,29	137,03	102,77	0,29	147,31	106,20	0,89	147,31	106,20	0,89	130,18	102,77	1,34	130,18	102,77	1,34
40,49	3	29,52	98,79	74,09	0,41	98,79	74,09	0,41	106,20	76,56	1,24	106,20	76,56	1,24	93,85	74,09	1,86	93,85	74,09	1,86

NO LOAD SPEED/NOMINAL TORQUE
Motor BHL 001-12V= 4000 r.p.m./0,055Nm.
Motor BHL 002-24V= 4000 r.p.m./0,055Nm.
Motor BHL 201-12V= 4300 r.p.m./0,15Nm.
Motor BHL 202-24V= 4300 r.p.m./0,15Nm.
Motor BHL 401-12V= 3800 r.p.m./0,3Nm.
Motor BHL 402-24V= 3800 r.p.m./0,3Nm.

WARNING: The load might reduce final speed up to 40%.

CURVES



GEARBOX TIPS:
Noise: noise level depends on load symmetry, location (avoid acoustic resonance), and rotation speed; the lower the speed on the input shaft (motor), the lower the noise.