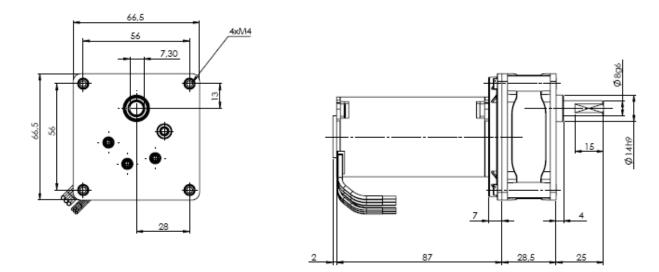
# Gearbox + Motor KF65-BG42



**KF65** 

# **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 6.5 Nm, steady load.

- **Box.** Made of two aluminium plates and an aluminium tubular cover. Frontal mounting by four M4 threaded holes.
- Gear set. Hobbed spur gear set with steel pinions and gear wheels, with case superficial heat anti-friction treatment.
- Output shaft. Ø8 mm. steel shaft, 25 mm usable length, with a flat. Incorporates and turns on sintered bushings.

Output shaft load:	
Axial direction, pull or push	60 N ≈ 6 Kg.
Radial direction, at 10 mm from box	60 N ≈ 6 Kg.

- Lubrication. Lithium grade 2 grease.
- Weight. With maximal number of stages: 0.95 Kg

#### MOTOR COUPLING:

- Direct C.: DUNKER BG42 type 12 or 24 V
- 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.

# Standard ratios

### Gearbox-KF65

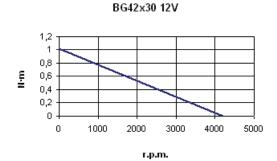
	BRUSHLESS DC MOTORS MODEL: Dunker BG42													
	BG42x30 12V				BG42x30 24∨			BG42x30KI 12V			BG42x30KI 24∨			
Reduction ratio i = X:1	Stages	Torque factor	No load speed n₀ (r.p.m.)	Nominal Speed n <sub>N</sub> (r.p.m.)	Nominal Torque (N.m)	No load speed n <sub>o</sub> (r.p.m.)	Nominal Speed n <sub>N</sub> (r.p.m.)	Nominal Torque (N.m)	No load speed n <sub>o</sub> (r.p.m.)	Nominal Speed n <sub>N</sub> (r.p.m.)	Nominal Torque (N.m)	No load speed n <sub>o</sub> (r.p.m.)	Nominal Speed n <sub>N</sub> (r.p.m.)	Nominal Torque (N.m)
15,97	3	11,64	262,37	208,52	2,01	257,36	224,17	1,99	269,25	226,05	1,18	257,98	229,81	1,93
35,65	3	25,99	117,53	93,41	4,50	115,29	100,42	4,44	120,62	101,26	2,62	115,57	102,95	4,31
61,77 93,65	4	40,53 61,44	67,83 44,74	53,91 35,56	Ex. Torque max. 6,5 N·m	66,54 43,89	57,96 38,23		69,61 45,92	58,44 38,55	4,09 6,21	66,70 43,99	59,41 39,19	
115,4	5	68,14	36,31	28,86		35,62	31,02	Ex.	37,26	31,28	0,21	35,70	31,80	Ex.
160,08 191,24	5 5	94,53 112,93	26,17 21,91	20,80 17,41		25,67 21,49	22,36 18,72	Torque max. 6,5 N·m	26,86 22,48	22,55 18,88		25,74 21,54	22,93 19,19	Torque max. 6,5 N·m
303,15 395,92	5 5	179,01 233,79	13,82 10,58	10,98 8,41		13,56 10,38	11,81 9,04		14,18 10,86	11,91 9,12		13,59 10,41	12,11 9,27	0,5 11 1

NO LOAD SPEED/NOMINAL TORQUE Motor BG 42x30-12V= 4190 r.p.m./1,02Nm. Motor BG 42x30-24V= 4110 r.p.m./1,52Nm. Motor BG 42x30 KI-12V= 4300 r.p.m./0,288Nm. Motor BG 42x30 KI-24V= 4120 r.p.m./0,445Nm.

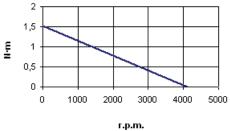
WARNING: The load might reduce final speed up to 40%.

Exceeds maximal Ex admissible torque

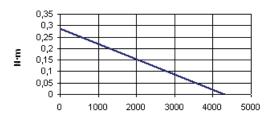
## **CURVES**



BG42x30 24V

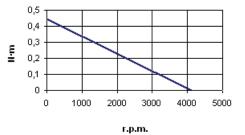






r.p.m.

BG42x30KI 24V





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.