

## DIMENSIONS

Type	L	Lt
K31.411	40,5	71,5
K31.416	45,5	76,5
K31.620	49,5	80,5
K31.630	59,5	90,5
K31.640	69,5	100,5

## K31-Mounting

## 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 4 Nm, steady load.**

- **Box.** Made of die-cast Zamak. Frontal mounting by four M4 threaded holes (the same as K40 gearbox).
- **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, 23 mm usable length, with a flat. Incorporates and turns on ball bearings.
- **Output shaft load:**
  - Axial direction, pull or push 400 N ≈ 40 Kg.
  - Radial direction, at 10 mm from box 250 N ≈ 25 Kg.
- **Lubrication.** Lithium grade 2 grease.
- **Weight.** With maximal number of stages: 0.41 Kg, motor not included.

### MOTORS COUPLING:


- **Alternating C.:** ASYNCHRONOUS G416, G620, G630 y G640 types, at 230 V - 50 Hz. (For other voltages, request information).

### ■ OPTIONAL:

- **DW 8:** Ø8 mm shaft with double output (both sides), without flat.
- All G series motors options.

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

**Your special requests are welcome**

			ASYNCHRONOUS MOTOR				
Ratio <b>i = X:1</b>	N° Stages	Torque factor	No load speed Vo (r.p.m.)	G.416	G.620	G.630	G.640
				Rated torque (Nm)	Rated torque (Nm)	Rated torque (Nm)	Rated torque (Nm)
20	3	14,6	144	0,21	0,26	0,31	0,41
24	3	17,5	120	0,25	0,32	0,37	0,49
26,6	3	19,4	108	0,29	0,36	0,42	0,55
32	3	23,3	90	0,34	0,42	0,49	0,65
35	3	25,5	82	0,37	0,46	0,54	0,72
40	3	29,2	72	0,42	0,53	0,62	0,82
47	3	34,3	61	0,50	0,62	0,72	0,96
56	3	40,8	51	0,59	0,74	0,86	1,15
70	3	51,0	41	0,74	0,92	1,08	1,43
93	3	67,8	30	0,98	1,22	1,43	1,90
139	3	101,3	21	1,47	1,83	2,14	2,84
160	4	105,0	18	1,51	1,87	2,19	2,91
175	4	114,8	16	1,65	2,05	2,40	3,19
200	4	131,2	14	1,89	2,34	2,74	3,64
233	4	152,9	12	2,20	2,73	3,20	D= 0,70 R= 1,60
280	4	183,7	10	2,94	3,28	3,84	
350	4	229,6	8	3,67	D= 0,70 R= 1,40 BR= 1,7	D= 0,70 R= 1,66 BR= 2,2	BR= 2,28
400	5	236,2	7,2	3,78			
420	5	248,0	6,9	3,97	D= 0,70 R= 1,36	Ex torque max. 4 Nm	
467	5	275,8	6,1				
500	5	295,2	5,7				
560	5	330,7	5,1				
600	5	354,3	4,8				
700	5	413,3	4,1				
800	5	472,4	3,6				
840	5	496,0	3,4				
933	5	550,9	3,0				
1.120	5	661,3	2,5				
1.400	5	826,7	2,0				

**NO LOAD SPEED / STARTING TORQUE**Motor **G416**= 2.800 r.p.m./0,0145 Nm.Motor **G620**= 2.700 r.p.m./0,0180 Nm.Motor **G630**= 2.750 r.p.m./0,0211 Nm.Motor **G640**= 2.850 r.p.m./0,0280 Nm**SPECIAL WINDINGS****D:** Low torque.**R:** Extra torque**BR:** Super extra torque.

Multiply torque by the corresponding factor.

**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.

**Load torque.** Overloading of the output shaft will reduce the gearbox life.

**Ex**Exceeds maximal  
admissible torque