



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:

- **Alternating C.:** SYNCHRONOUS ASM 16, 24, 44, 46, 84 and 86 types, at 230 V - 50/60 Hz.

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

Your special requests are welcome.

KELVIN			AC MOTORS MODELO:Motor ASTRO ASM		
			ASM 16 1Phase		
Reduction ratio $i = X:1$	Stages	Efficiency	Speed n_0 (r.p.m.)	Nominal Torque (N.m)	
4,51	2	0,81	221,73	0,11	
6,26	2	0,81	159,74	0,45	
10,85	2	0,81	92,17	0,26	
15,97	3	0,73	62,62	0,35	
30,25	3	0,73	33,06	0,66	
45,87	3	0,73	21,80	1,00	
61,77	4	0,66	16,19	1,22	
93,67	4	0,66	10,68	1,84	
116,98	4	0,66	8,55	2,30	
148,46	4	0,66	6,74	2,92	
177,39	4	0,66	5,64	3,49	
303,15	5	0,59	3,30	5,37	
480,58	5	0,59	2,08		
525,24	5	0,59	1,90		
627,47	5	0,59	1,59		

KELVIN			AC MOTORS MODELO:Motor ASTRO ASM							
			ASM 24 1Phase		ASM 24 3Phase		ASM 26 1Phase		ASM 26 3Phase	
Reduction ratio $i = X:1$	Stages	Efficiency	Speed n_0 (r.p.m.)	Nominal Torque (N.m)	Speed n_0 (r.p.m.)	Nominal Torque (N.m)	Speed n_0 (r.p.m.)	Nominal Torque (N.m)	Speed n_0 (r.p.m.)	Nominal Torque (N.m)
4,51	2	0,81	332,59	0,12	332,59	0,18	221,73	0,18	221,73	0,22
6,26	2	0,81	239,62	0,17	239,62	0,24	159,74	0,25	159,74	0,30
10,85	2	0,81	138,25	0,30	138,25	0,42	92,17	0,44	92,17	0,52
15,97	3	0,73	93,93	0,40	93,93	0,56	62,62	0,58	62,62	0,69
30,25	3	0,73	49,59	0,75	49,59	1,06	33,06	1,10	33,06	1,30
45,87	3	0,73	32,70	1,14	32,70	1,61	21,80	1,67	21,80	1,97
61,77	4	0,66	24,28	1,38	24,28	1,95	16,19	2,03	16,19	2,39
93,67	4	0,66	16,01	2,09	16,01	2,95	10,68	3,07	10,68	3,63
116,98	4	0,66	12,82	2,61	12,82	3,68	8,55	3,84	8,55	4,53
148,46	4	0,66	10,10	3,31	10,10	4,68	6,74	4,87	6,74	5,75
177,39	4	0,66	8,46	3,96	8,46	5,59	5,64	5,82	5,64	
303,15	5	0,59	4,95	6,09	4,95		3,30		3,30	
480,58	5	0,59	3,12		3,12		2,08		2,08	
525,24	5	0,59	2,86		2,86		1,90		1,90	
627,47	5	0,59	2,39		2,39		1,59		1,59	

KELVIN			AC MOTORS MODELO:Motor ASTRO ASM							
			ASM 44 1Phase		ASM 44 3Phase		ASM 46 1Phase		ASM 46 3Phase	
Reduction ratio $i = X:1$	Stages	Efficiency	Speed n_0 (r.p.m.)	Nominal Torque (N.m)	Speed n_0 (r.p.m.)	Nominal Torque (N.m)	Speed n_0 (r.p.m.)	Nominal Torque (N.m)	Speed n_0 (r.p.m.)	Nominal Torque (N.m)
4,51	2	0,81	332,59	0,28	332,59	0,36	221,73	0,38	221,73	0,47
6,26	2	0,81	239,62	0,39	239,62	0,50	159,74	0,53	159,74	0,65
10,85	2	0,81	138,25	0,68	138,25	0,86	92,17	0,92	92,17	1,13
15,97	3	0,73	93,93	0,90	93,93	1,14	62,62	1,22	62,62	1,50
30,25	3	0,73	49,59	1,70	49,59	2,16	33,06	2,32	33,06	2,84
45,87	3	0,73	32,70	2,57	32,70	3,28	21,80	3,51	21,80	4,31
61,77	4	0,66	24,28	3,12	24,28	3,97	16,19	4,26	16,19	5,23
93,67	4	0,66	16,01	4,73	16,01	6,02	10,68	6,45	10,68	
116,98	4	0,66	12,82	5,91	12,82		8,55		8,55	
148,46	4	0,66	10,10		10,10		6,74		6,74	
177,39	4	0,66	8,46		8,46		5,64		5,64	
303,15	5	0,59	4,95		4,95		3,30		3,30	
480,58	5	0,59	3,12		3,12		2,08		2,08	
525,24	5	0,59	2,86		2,86		1,90		1,90	
627,47	5	0,59	2,39		2,39		1,59		1,59	

KELVIN			AC MOTORS MODELO:Motor ASTRO ASM							
			ASM 84 1Phase		ASM 84 3Phase		ASM 86 1Phase		ASM 86 3Phase	
Reduction ratio $i = X:1$	Stages	Efficiency	Speed n_0 (r.p.m.)	Nominal Torque (N.m)	Speed n_0 (r.p.m.)	Nominal Torque (N.m)	Speed n_0 (r.p.m.)	Nominal Torque (N.m)	Speed n_0 (r.p.m.)	Nominal Torque (N.m)
4,51	2	0,81	332,59	0,58	332,59	0,61	221,73	0,70	221,73	0,84
6,26	2	0,81	239,62	0,81	239,62	0,85	159,74	0,97	159,74	1,17
10,85	2	0,81	138,25	1,41	138,25	1,48	92,17	1,69	92,17	2,02
15,97	3	0,73	93,93	1,86	93,93	1,96	62,62	2,24	62,62	2,68
30,25	3	0,73	49,59	3,53	49,59	3,70	33,06	4,23	33,06	5,07
45,87	3	0,73	32,70	5,35	32,70	5,62	21,80	6,42	21,80	
61,77	4	0,66	24,28	6,48	24,28		16,19		16,19	
93,67	4	0,66	16,01		16,01		10,68		10,68	
116,98	4	0,66	12,82		12,82		8,55		8,55	
148,46	4	0,66	10,10		10,10		6,74		6,74	
177,39	4	0,66	8,46		8,46		5,64		5,64	
303,15	5	0,59	4,95		4,95		3,30		3,30	
480,58	5	0,59	3,12		3,12		2,08		2,08	
525,24	5	0,59	2,86		2,86		1,90		1,90	
627,47	5	0,59	2,39		2,39		1,59		1,59	

NO LOAD SPEED/NOMINAL TORQUE

Motor ASM16 1-phase= 1000 r.p.m./0,03Nm.
 Motor ASM24 1-phase= 1500 r.p.m./0,03Nm.
 Motor ASM24 3-phase= 1500 r.p.m./0,05Nm.
 Motor ASM26 1-phase= 1000 r.p.m./0,05Nm.
 Motor ASM26 3-phase= 1000 r.p.m./0,06Nm.
 Motor ASM44 1-phase= 1500 r.p.m./0,08Nm.
 Motor ASM44 3-phase= 1500 r.p.m./0,10Nm.
 Motor ASM46 1-phase= 1000 r.p.m./0,11Nm.
 Motor ASM46 3-phase= 1000 r.p.m./0,13Nm.
 Motor ASM84 1-phase= 1500 r.p.m./0,16Nm.
 Motor ASM84 3-phase= 1500 r.p.m./0,17Nm.
 Motor ASM86 1-phase= 1000 r.p.m./0,19Nm.
 Motor ASM86 3-phase= 1000 r.p.m./0,23Nm.

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.

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

Ex Exceeds maximal admissible torque

Kabelauführung

Flying leads execution

Conexionado de cables

