



## KT80

### 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 8 Nm, steady load.**

- **Box.** Made of die-cast Zamak with a tubular aluminium cover. Several options for frontal mounting.
- **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.** Ø10 mm steel shaft, 30 mm usable length, with a flat. Incorporates and turns on ball bearings.
- **Output shaft load:**
  - Axial direction, pull or push                      500 N ≈ 50 Kg.
  - Radial direction, at 10 mm from box              350 N ≈ 35 Kg.
- **Lubrication.** Lithium grade 2 grease.
- **Weight.** With maximal number of stages: 1.41 Kg.

#### MOTOR COUPLING:

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

#### OPTIONAL:

- Ø8 shaft.

**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)
4,43	2	0,81	225,73	0,11
6,68	2	0,81	149,70	0,16
10,65	3	0,73	93,90	0,23
14,78	3	0,73	67,66	0,32
28,63	3	0,73	34,93	0,63
39,71	3	0,73	25,18	0,87
46,45	4	0,66	21,53	0,91
60,26	4	0,66	16,59	1,19
89,98	4	0,66	11,11	1,77
124,81	4	0,66	8,01	2,46

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)
4,43	2	0,81	338,60	0,12	338,60	0,17	225,73	0,18	225,73	0,21
6,68	2	0,81	224,55	0,18	224,55	0,26	149,70	0,27	149,70	0,32
10,65	3	0,73	140,85	0,26	140,85	0,37	93,90	0,39	93,90	0,46
14,78	3	0,73	101,49	0,37	101,49	0,52	67,66	0,54	67,66	0,64
28,63	3	0,73	52,39	0,71	52,39	1,00	34,93	1,04	34,93	1,23
39,71	3	0,73	37,77	0,98	37,77	1,39	25,18	1,45	25,18	1,71
46,45	4	0,66	32,29	1,04	32,29	1,46	21,53	1,52	21,53	1,80
60,26	4	0,66	24,89	1,34	24,89	1,90	16,59	1,98	16,59	2,33
89,98	4	0,66	16,67	2,01	16,67	2,83	11,11	2,95	11,11	3,48
124,81	4	0,66	12,02	2,78	12,02	3,93	8,01	4,09	8,01	4,83

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)
4,43	2	0,81	338,60	0,28	338,60	0,35	225,73	0,38	225,73	0,46
6,68	2	0,81	224,55	0,42	224,55	0,53	149,70	0,57	149,70	0,70
10,65	3	0,73	140,85	0,60	140,85	0,76	93,90	0,82	93,90	1,00
14,78	3	0,73	101,49	0,83	101,49	1,06	67,66	1,13	67,66	1,39
28,63	3	0,73	52,39	1,61	52,39	2,05	34,93	2,19	34,93	2,69
39,71	3	0,73	37,77	2,23	37,77	2,84	25,18	3,04	25,18	3,73
46,45	4	0,66	32,29	2,35	32,29	2,99	21,53	3,20	21,53	3,93
60,26	4	0,66	24,89	3,04	24,89	3,87	16,59	4,15	16,59	5,10
89,98	4	0,66	16,67	4,55	16,67	5,79	11,11	6,20	11,11	7,62
124,81	4	0,66	12,02	6,31	12,02	8,01	8,01	8,01	8,01	10,00

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)
4,43	2	0,81	338,60	0,57	338,60	0,60	225,73	0,69	225,73	0,83
6,68	2	0,81	224,55	0,87	224,55	0,91	149,70	1,04	149,70	1,24
10,65	3	0,73	140,85	1,24	140,85	1,30	93,90	1,49	93,90	1,79
14,78	3	0,73	101,49	1,72	101,49	1,81	67,66	2,07	67,66	2,48
28,63	3	0,73	52,39	3,34	52,39	3,51	34,93	4,01	34,93	4,80
39,71	3	0,73	37,77	4,63	37,77	4,86	25,18	5,56	25,18	6,66
46,45	4	0,66	32,29	4,88	32,29	5,12	21,53	5,85	21,53	7,01
60,26	4	0,66	24,89	6,33	24,89	6,64	16,59	7,59	16,59	9,15
89,98	4	0,66	16,67	9,00	16,67	9,45	11,11	10,35	11,11	12,80
124,81	4	0,66	12,02	12,60	12,02	12,60	8,01	8,01	8,01	10,00

**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.

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

**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.

**Kabelauführung**

**Flying leads execution**  
**Conexionado de cables**

