

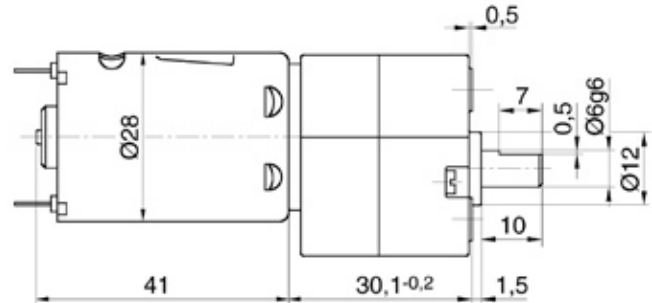
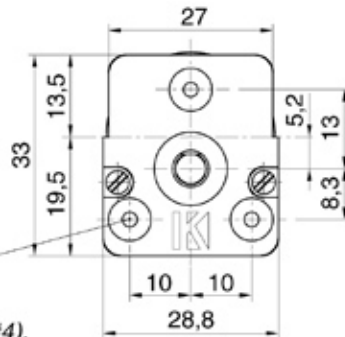


series **K14** **GEARBOX**  
1,4 Nm



3 Taladros de  
Ø2,4 x 5,5 prof.  
para tornillos nº 4  
de Ø2,9 autorroscas,  
DIN 7970.

Three Ø2.4 mm.  
drill holes for screws  
DIN 7970 - Ø2.9 mm. (#4).



## TECHNICAL CHARACTERISTICS


Gearbox for continuous work in any position, at room temperature from -15° to 50°C, with torque load **up to 1.4 Nm**.

- **Box.** Moulded plastic resistant to most detergents and chemical products. Frontal mounting by three Ø2.4 mm. drilled holes for screws DIN 7970 Ø2.9 mm. (#4).
- **Gearset.** Spur gearset with hardened steel pinions and steel gearwheels which turn on steel shafts attached to the box. The first gearwheel is made of hardened brass.
- **Output shaft.** Steel shaft Ø6 mm. and 10 mm. long with a flat surface, which turns on low friction, long life plastic bearings.
- **Maximal output shaft load:**  
Axial pull or push (steady load). 50 N • 5 Kg.  
Radial at 5 mm from flange. 25 N • 2.5 Kg.
- **Lubrication.** Lithium grade 2 grease lubricant.
- **Weight.** With maximal number of stages: 0.04 Kg.

### OTHER MOTORS.

The coupling motor must have: maximal external Ø28 and a maximal recommended speed of 4,500 r.p.m. Centering collar of Ø10 x 2.7 maximal height. Rotor shaft up to 2 or Ø2.3mm. Mounting by two M2.6 threaded holes at 16 mm. centres distance, or three M2 threaded holes in Ø17 mm. at 120°.

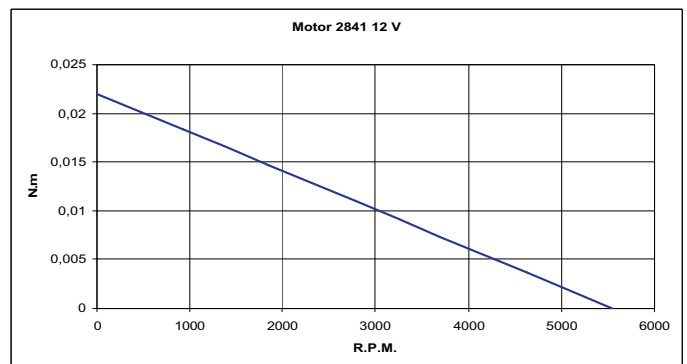
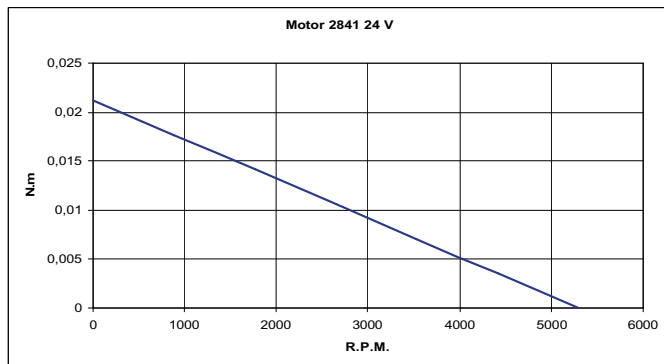
Your special requests are welcome.

			MOTORES DE C.C. - DC MOTORS					
			12 V			24 V		
Reducción Ratio $i = X:1$	Nº Pasos Stages	Factor de par Torque factor	Velocidad en vacío No load speed Vo (r.p.m.)	Velocidad nominal Nominal speed Vn (r.p.m.)	Par Nominal Nominal torque (N.m)	Velocidad en vacío No load speed Vo (r.p.m.)	Velocidad nominal Nominal speed Vn (r.p.m.)	Par Nominal Nominal torque (N.m)
			13,4	3	9,77	414	369	0,04
16,3	3	11,88	340	304	0,05	325	264	0,06
21,3	3	15,53	261	232	0,06	249	202	0,07
26,0	3	18,95	213	190	0,08	204	165	0,09
34,1	4	22,37	163	145	0,09	155	126	0,11
41,5	4	27,23	134	119	0,11	128	104	0,13
54,2	4	35,56	102	91	0,14	98	79	0,17
66,1	4	43,37	84	75	0,17	80	65	0,20
86,8	5	51,25	64	57	0,21	61	50	0,24
105,7	5	62,41	53	47	0,25	50	41	0,29
138,0	5	81,49	40	36	0,33	38	31	0,38
168,2	5	99,32	33	29	0,40	32	26	0,47

**ATENCIÓN:** Las velocidades pueden verse influenciadas por la carga hasta un -40%.  
**WARNING:** The load might reduce final speed up to 40%.

**VELOCIDAD EN VACIO/PAR NOMINAL  
 NO LOAD SPEED/NOMINAL TORQUE**  
 Motor **28.41-12 V**= 5.550 r.p.m./0,004 N.m.  
 Motor **28.41-24 V**= 5.300 r.p.m./0,0047 N.m.

**CURVAS - CURVES**



**RECOMENDACIONES:**

**Nivel de ruido:** el nivel de ruido del reductor depende de la uniformidad de la carga, ubicación (evitar resonancia) y de la velocidad; a menor velocidad, principalmente la del motor, menor nivel de ruido.

**Par admisible:** sobrepasar la carga máx. implica disminuir sensiblemente la vida del reductor.

**Evitar** montar o desmontar ninguna pieza a golpes en el eje de salida, ya que podría dañar el reductor de forma irreparable.

**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.

**Warning.** Impact on the output when engaging the load could damage the gearbox.