DIAGRAMS of CHARACTERISTICS LT28 - 24 VDC

▨ Area of use

TORQUE/CURRENT and TORQUE/SPEED at 24 VDC STABILIZED

⚠ With differents weights, the speed will be differents.

Graph axes: Current (A) — left axis (0 to 0,5); Speed (rpm) — right axis (20 to 45); Torque (mN) — horizontal axis (0 to 1). Curves labeled: Down speed, Up current, Up speed, Down current.
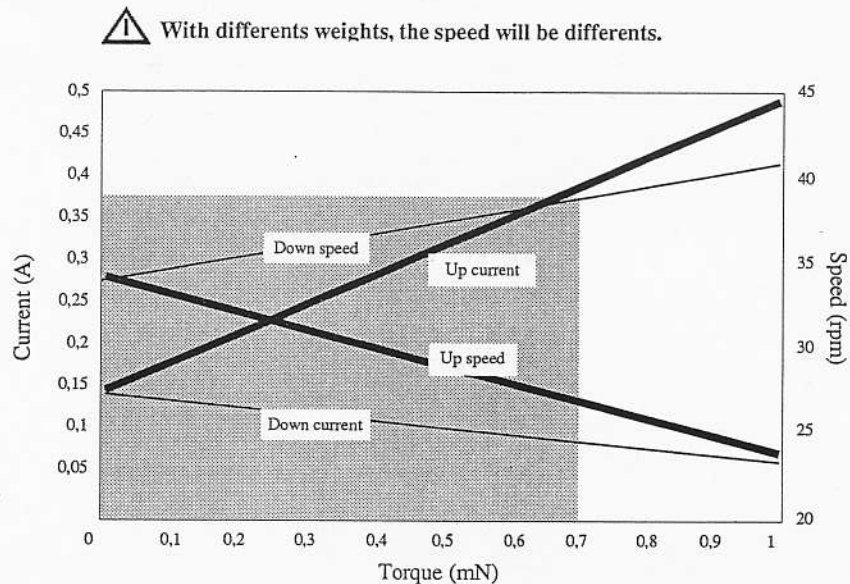
POWER VOLTAGE/ SPEED at CONSTANT TORQUE (0,6 mN)

Graph axes: Speed (rpm) — vertical (20 to 55); Stabilized power voltage (VDC) — horizontal (20 to 36). Curves labeled: Down speed, Up speed.
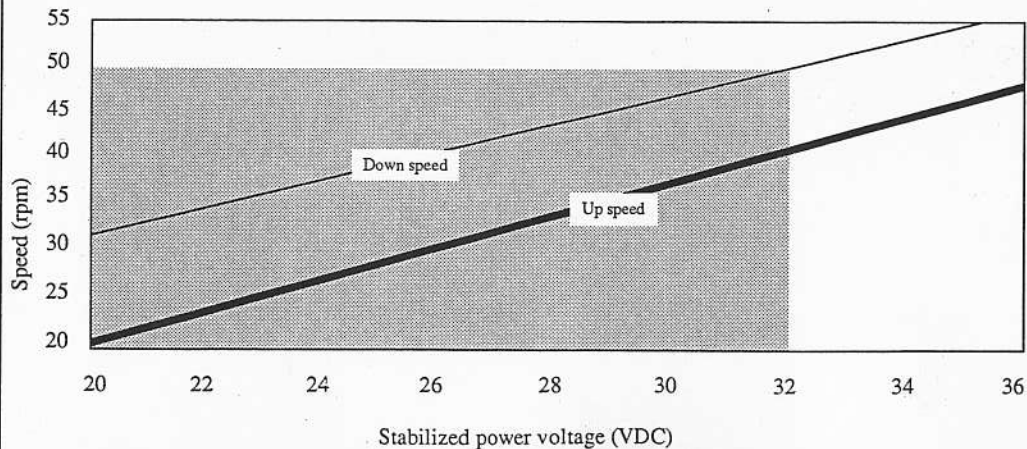
TECHNICAL DATA FORM

Index-card n°: First diffusion the : 4/6/1992

CONCERNED SUBSIDIARIES : All

C/C : service QUALITE, LI

DENOMINATION : LT 28 - 24 VDC
PART NUMBER : KT84700 / KT84701   Range : LT28

Power supply	Nominal supply voltage	24 Vdc
	Advised maximum supply voltage	32 Vdc
	Advised minimum supply voltage	20 Vdc
	Advised minimum capacitor	220 µF
PERFORMANCES	Nominal torque	0,7Nm
	Theoretical speed empty	34 rpm
	Speed with nominal torque in up	27 rpm
	Speed with nominal torque in down	38 rpm
	Rated current with nominal torque in up	0,38 A
	Rated current with nominal torque in down	0,10 A
	Average noise level	50 dB
DESCRIPTIVE	Electric motor	
	Bipolar at direct current	
	Thermical class of insulation	E
	Duty cycle	Intermittent
	Average temperature after 35 mn of using	≈ 60°C
	Brake	
	Electrical brake by short-circuit of the 2 poles of the motor	
	Gear-box	
	Planetary gear-box with 3 stages, ratio	1 / 297
	Torque limiter	
	Friction system	1 Nm $^{+0,4}_{-0,15}$
	Limit switch system	
	Rapid limit switch	40 rotations
	Possibility of exceed the limit switch without upset	None
	Reliability	≤ +/- 5°
	Initial removing wedge from adjusting	≤ 30°
VARIOUS	Temperature of range	-20 to +60°C
	Protection factor against solid and splashproof	IP 44
	Dielectric strength with a Safety Extra Low Supply Voltage for Europe →	class 3
	Radio frequency interference : according to the guiding line 871308 CEE →	
	Weight (with wheel and crown for tube Ø28 x 0,7 mm, without package)	270 gr
	International homologations EN 60335 / PE 10306	

To get a good using of the internals relays and a level of radio frequency interference according to the norms, we must adapt a capacitor to the power supply. The minimum capacitor value must be 220 µF.

The values of currents and speeds indicate above it are average with a stabilized supply voltage of 24 V.

If you just have a power supply with only a capacitor, the values will change with the characteristics of the power supply and the diagrams of torque/current and torque/speed will not be linears.

SOMFY *Comfort Line*