CROUZET MOTORS

Ø 42 mm 14 to 31 Watts 14 W Part number 82810504



- Usable power : 12 to 22 Watts
- For high-power drive applications
- Sintered bronze bearings lubricated for life
- Power supply by 4.75 mm tags
- Interchangeable brushes
- Optional channel encoder

Part numbers

	Type	Type	Voltage	References
82810504	14 W	828105	12 V	With 1 pulse/revolution encoder

Specifications

No-load characteristics

Speed of rotation (rpm)	3840
Absorbed power (W)	12
Absorbed current (A)	1

Nominal characteristics

Speed (rpm)	2580
Torque (mNm)	45
Usable power (W)	12
Absorbed power (W)	31
Absorbed current (A)	2,6
Gearbox case temperature rise (°C)	32
Efficiency (%)	39

General characteristics

Insulation class (conforming to IEC 85)	F (155 °C)
Protection (IEC/EN 60529)	IP20
Max. output power (W)	14
Start torque (mNm)	138
Starting current (A)	6,2
Resistance (Ω)	1,94
Inductance (mH)	4,45
Torque constant (Nm/A)	0,0265
Electrical time constant (ms)	2,3
Mechanical time constant (ms)	26
Thermal time constant (mn)	8
Inertia ($g.cm^2$)	80
Weight (g)	310
Number of of segments	8
Service life (h)	2000
Sintered bronze bearings	●
Replaceable brushes	●

Encoder characteristics

Output current (mA)	< 25 (25 °C)
Supply (V)	4,5 →30 DC
Ambient temperature (°C)	-40 →85 °C

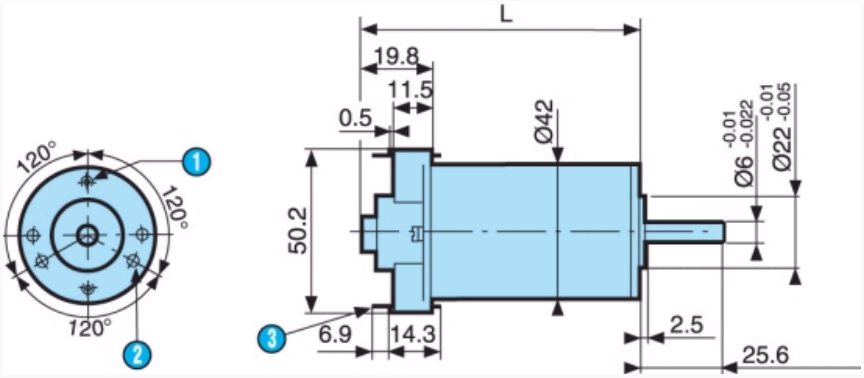
Made to order products, available on request

- Built-in interference suppression (82 830 5)
- Special interference suppression (82 800 5 - 82 810 5)
- Other supply voltages
- Motor with 1 ball bearing at front (82 800 5 or 82 810 5) (essential for vertical motor)
- Shaft lengths at front and/or rear
- Reversible 5 pulses/revolution magnetic encoder (1 or 5 pulses/revolution)
- Other fixing flanges on front or rear
- Short version possible on 82 830 5 (L = 90 mm)

Dimensions (mm)

828005 - 828105

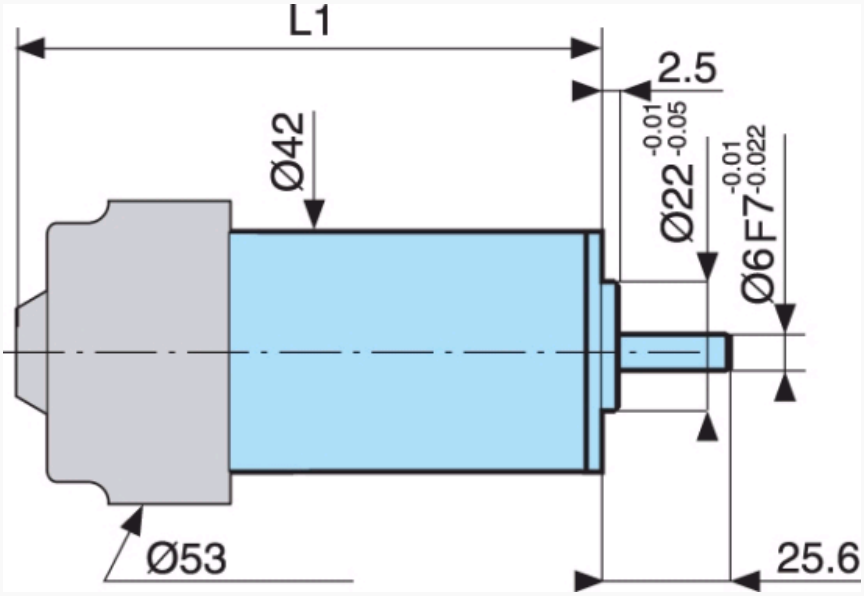
Unless otherwise specified, the characteristics given are applicable to all or part of the product range selected



Nº	Legend
1	2 x M3 at 180°, depth 5 mm over Ø 32
2	2 holes Ø 2.75 at 120° depth 5 mm over Ø 32
3	2 tags IEC 760, series 4.8 x 0.5
	L : 828005 : 84.8 mm max.
	L : 828105 : 59.8 mm max.

Dimensions (mm)

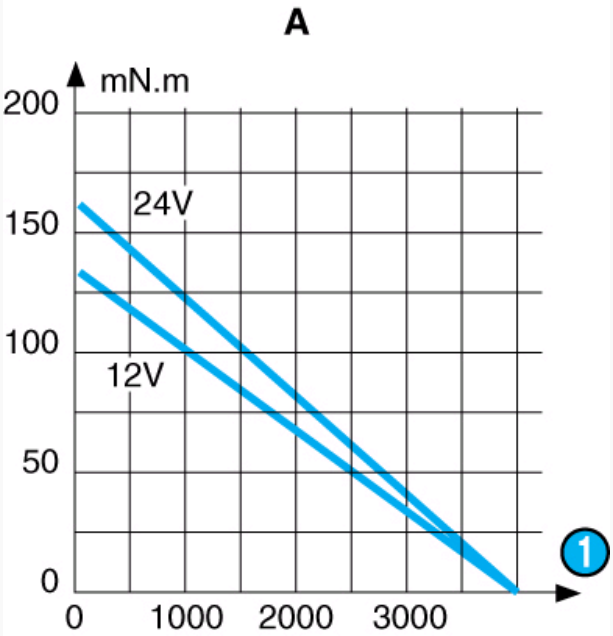
Dimensions with magnetic encoder



Nº	Legend
	L1 : 828005 : 99.1 mm max.
	L1 : 828105 : 84.1 mm max.

Curves

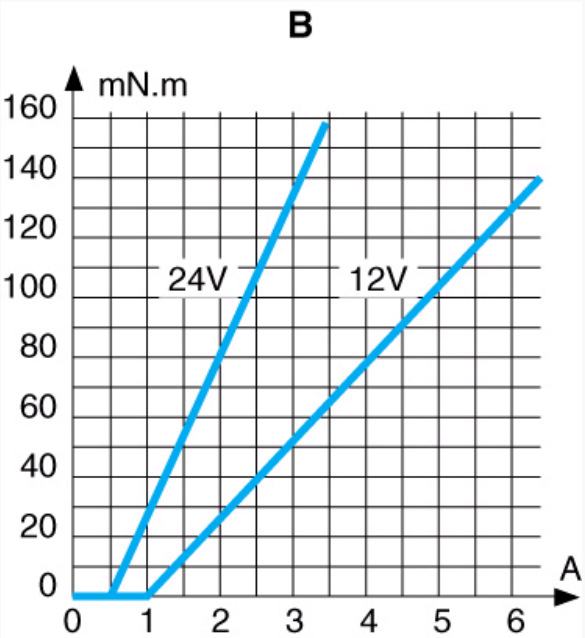
828105



Nº	Legend
1	rpm
	Torque/speed curve

Curves

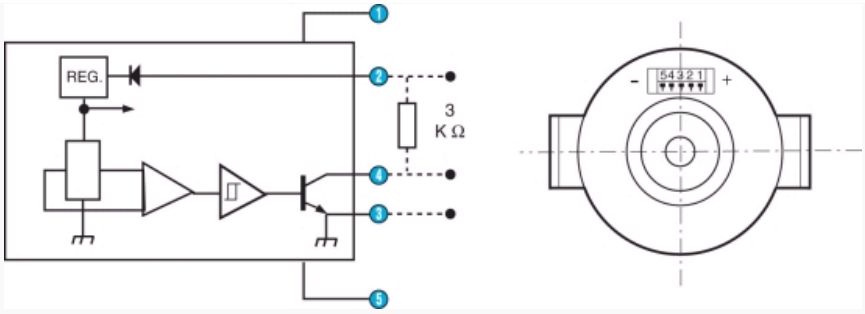
828105



Nº	Legend
	Torque/current curve

Connections

Encoder and connector : STOCKO MKS 3735-6-0-505



Part number of female connector to be used : STOCKO MKF 17-230 / 260 / 330 / 360

Nº	Legend
1	Motor power supply
2	+5 →+24 V DC (encoder power supply)
3	0 V DC (encoder power supply)
4	Encoder signal output
5	Motor power supply

Product adaptations

- Special output shaft
- Pinion on output shaft
- Special supply voltage
- Special ball bearings
- Optical or Hall effect encoder
- Special mounting plate
- Special connections