

## Ø 42 mm 22 to 52 Watts 52 W Part number 82850002



- Usable power : 20 to 50 W
- For high-power drive applications
- Sintered bronze bearings lubricated for life
- Power supply via 2 output leads
- Optional 1 or 2-channel encoder
- Optional EMC filter

### Part numbers

	Type	Type	Voltage	References
82850002	52 W	828500	24 V	Without encoder

### Specifications

#### No-load characteristics

Speed of rotation (rpm)	4050
Absorbed power (W)	7,44
Absorbed current (A)	0,31

#### Nominal characteristics

Speed (rpm)	3200
Torque (mNm)	100
Usable power (W)	33,5
Absorbed power (W)	52
Absorbed current (A)	2,15
Gearbox case temperature rise (°C)	54
Efficiency (%)	64

#### General characteristics

Insulation class (conforming to IEC 85)	F (155 °C)
Protection (IEC/EN 60529)	IP20
Max. output power (W)	52
Start torque (mNm)	490
Starting current (A)	9,6
Resistance (Ω)	2,5
Inductance (mH)	2,5
Torque constant (Nm/A)	0,052
Electrical time constant (ms)	1
Mechanical time constant (ms)	13
Thermal time constant (mn)	21
Inertia (g.cm <sup>2</sup> )	140
Weight (g)	640
Number of segments	8
Service life (h)	3000
Sintered bronze bearings	■
Wires length (mm)	200

#### Encoder characteristics

Current consumption (mA)	0,5 →15
Output current (mA)	< 20 (25 °C)
Supply (V)	4,5 →35 DC
Ambient temperature (°C)	-25 →+85

### Accessories

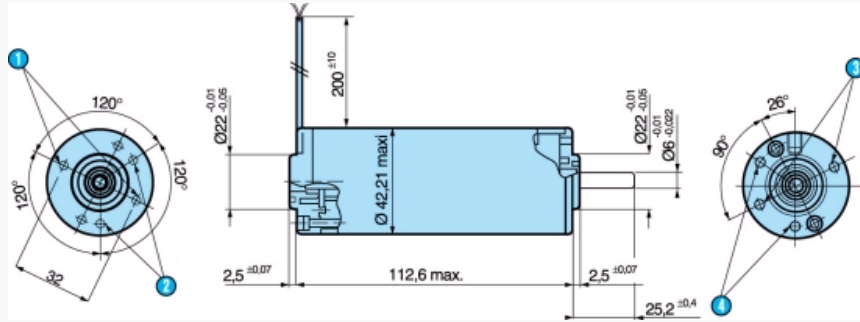
Connection	Code
Pre-assembled female connector, casing 179228-3, tags 179227-1 and leads AWG24 250 mm	79209895

### Made to order products, available on request

- Built-in interference suppression
- Other supply voltages
- Shaft lengths at front and/or rear
- Motor 82 850 with 1 or 2 ball bearings
- Other fixing flanges on front and rear
- 200 pulses/rev optical encoder

Dimensions (mm)

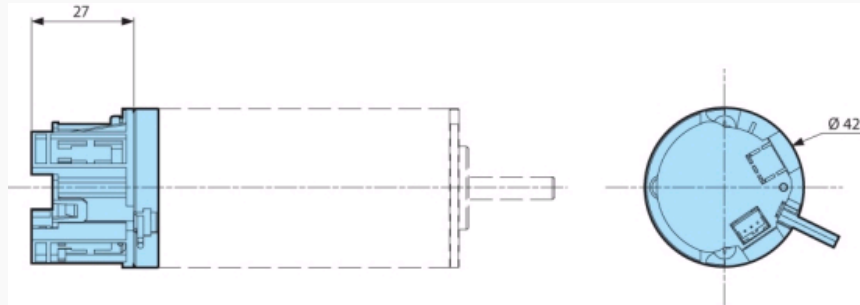
828500 without encoder



N°	Legend
1	2 holes M3 x 0.5 at 180° depth 5 over Ø 32
2	2 holes 2.75 ± 0.05 at 120° depth 5 over Ø 32
3	2 holes M3 x 0.5 at 180° depth 5.5 over Ø 32
4	2 holes M3 x 0.5 at 120° depth 5.5 over Ø 32

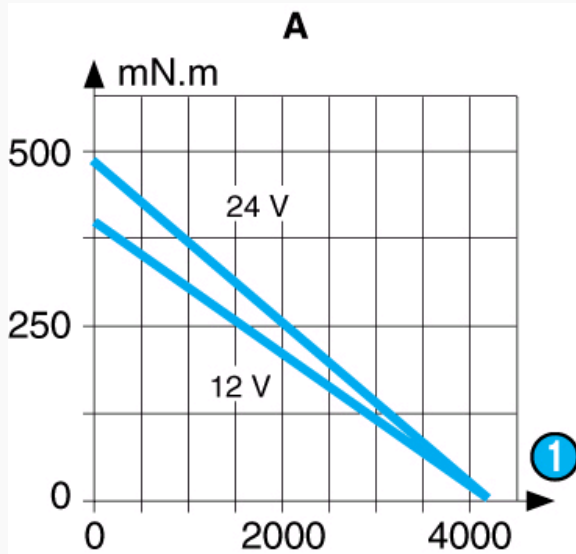
Dimensions (mm)

Encoder on types 828008 - 828500



Curves

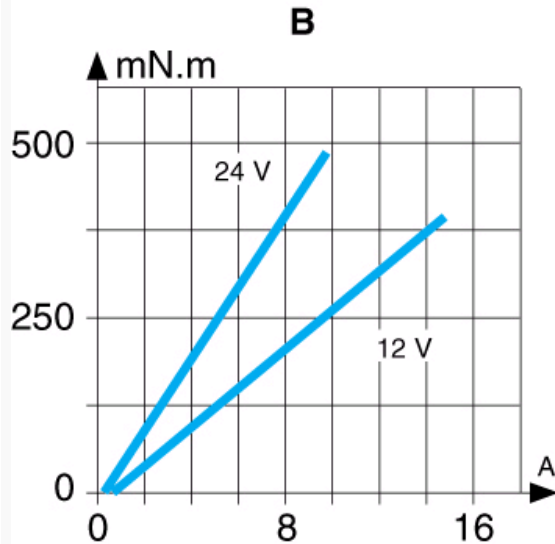
828500



N°	Legend
1	rpm
	Torque/speed curve

## Curves

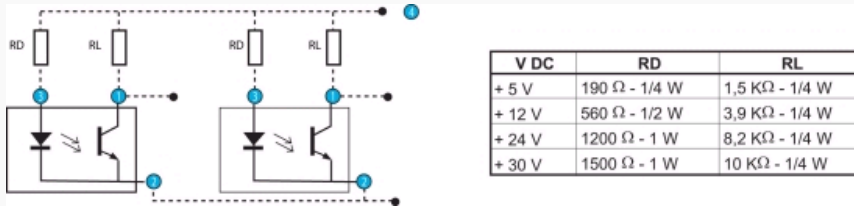
828500



N°	Legend
	Torque/current curve

## Connections

## Encoder



N°	Legend
	Signal output
	0 V DC (encoder power ground supply)
	Emitting diode
	Power supply V DC

## Product adaptations



- Special output shaft
- Pinion on output shaft
- Special supply voltage
- Special cable length
- Special ball bearings
- Optical or Hall effect encoder - 1 or 2 channels - other resolutions
- Special mounting plate
- Customised electronics
- Special connectors
- EMC filter