

Ø 42 mm 22 to 52 Watts 42 W Part number 82850001



- 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 |
|----------|------|--------|---------|-----------------|
| 82850001 | 42 W | 828500 | 12 V | Without encoder |

Specifications

No-load characteristics

| | |
|-------------------------|------|
| Speed of rotation (rpm) | 4150 |
| Absorbed power (W) | 7,32 |
| Absorbed current (A) | 0,61 |

Nominal characteristics

| | |
|------------------------------------|------|
| Speed (rpm) | 3100 |
| Torque (mNm) | 100 |
| Usable power (W) | 32,5 |
| Absorbed power (W) | 51 |
| Absorbed current (A) | 4,25 |
| Gearbox case temperature rise (°C) | 63 |
| Efficiency (%) | 63 |

General characteristics

| | |
|---|------------|
| Insulation class (conforming to IEC 85) | F (155 °C) |
| Protection (IEC/EN 60529) | IP20 |
| Max. output power (W) | 42 |
| Start torque (mNm) | 390 |
| Starting current (A) | 14,8 |
| Resistance (Ω) | 0,81 |
| Inductance (mH) | 0,7 |
| Torque constant (Nm/A) | 0,027 |
| Electrical time constant (ms) | 0,85 |
| Mechanical time constant (ms) | 16 |
| Thermal time constant (mn) | 26 |
| Inertia (g.cm ²) | 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

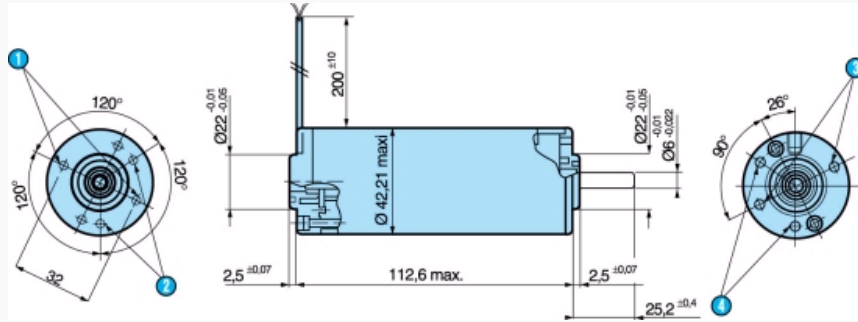
| Connection | Code |
|---|----------|
| Pre-assembled female connector, casing 179228-3, tags 179227-1 and leads AWG24 250 mm | 79209895 |

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)

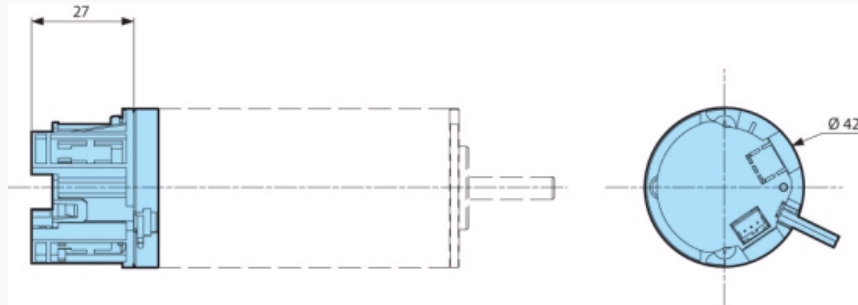
828500 without encoder



| 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 |

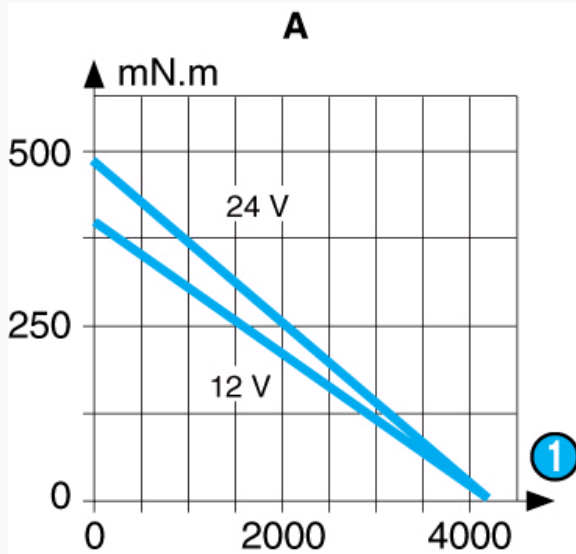
Dimensions (mm)

Encoder on types 828008 - 828500



Curves

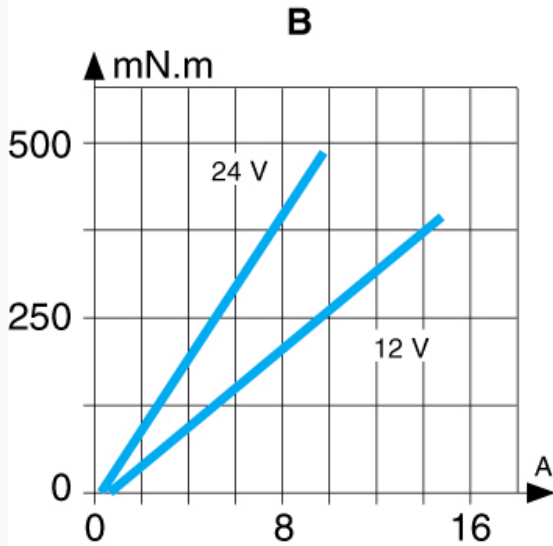
828500



| N° | Legend |
|----|--------------------|
| 1 | rpm |
| | Torque/speed curve |

Curves

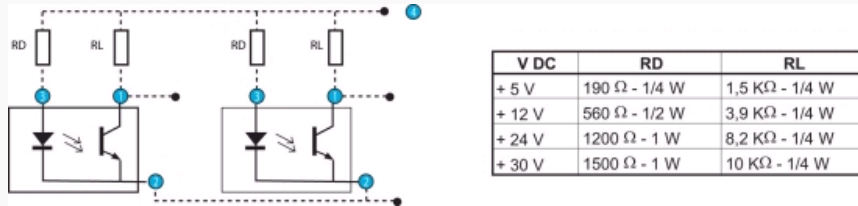
828500



| 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