



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

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

Connection

Pre-assembled female connector, casing 179228-3, tags 179227-1 and leads AWG24250 mm

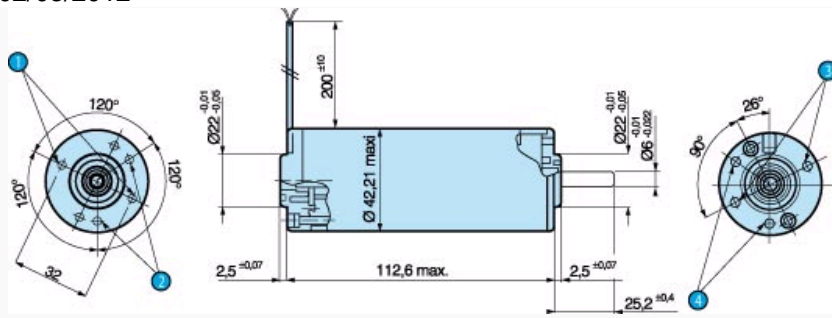
Code

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Made to order products, available on request

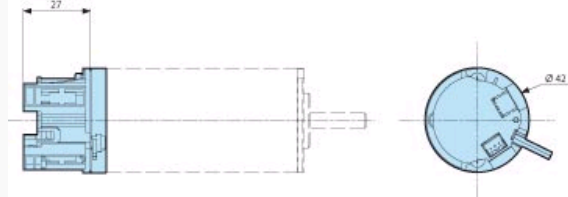
- Built-in interference suppression
- Other supply voltages
- Shaft lengths at front and/or rear
- Motor 82 850 with 1 or 2 ball bearings
- Other fixing flanges on front and rear
- 200 pulses/rev optical encoder

Dimension Diagram : 828500 without encoder

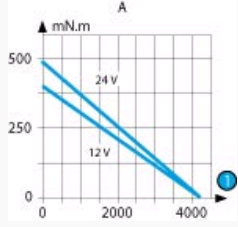


N°	Legend
1	2 holes M3 x 0.5 at 180° depth 5 over Ø 32
2	2 holes 2.75 ± 0.05 at 120° depth 5 over Ø 32
3	2 holes M3 x 0.5 at 180° depth 5.5 over Ø 32
4	2 holes M3 x 0.5 at 120° depth 5.5 over Ø 32

Dimension Diagram : Encoder on types 828008 - 828500

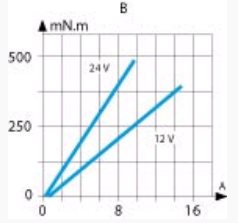


Curves : 828500



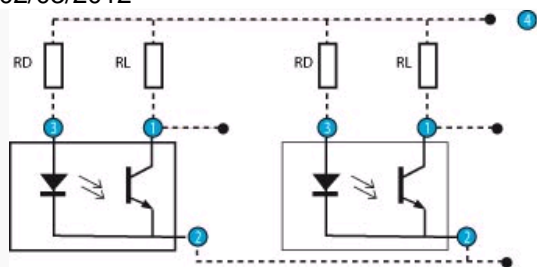
N°	Legend
1	rpm
A	Torque/speed curve

Curves : 828500



N°	Legend
B	Torque/current curve

: Encoder



V DC	RD	RL
+ 5 V	190 Ω - 1/4 W	1,5 K Ω - 1/4 W
+ 12 V	560 Ω - 1/2 W	3,9 K Ω - 1/4 W
+ 24 V	1200 Ω - 1 W	8,2 K Ω - 1/4 W
+ 30 V	1500 Ω - 1 W	10 K Ω - 1/4 W

N° Legend

- 1 Signal output
- 2 0 V DC (encoder power ground supply)
- 3 Emitting diode
- 4 Power supply V DC

Special 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