

### Ø 32 mm 3.9 Watts 3.9 W with tags Part number 82860003



- Nominal power : 3 W
- Versions with tag or lead connection
- Versions without filter or with standard filter or class B filter built into the motor
- Versions with or without encoder, 1 or 5 pulses per revolution, built into the motor

#### Part numbers

	Type	Type	Voltage	References
82860003	3.9 W with tags	82860	12 V	Varistor filter

#### Specifications

##### No-load characteristics

Speed of rotation (rpm)	5000
Absorbed power (W)	1,2
Absorbed current (A)	0,1

##### Nominal characteristics

Speed (rpm)	3700
Torque (mNm)	7,7
Usable power (W)	3
Absorbed power (W)	6,2
Absorbed current (A)	0,43
Gearbox case temperature rise (°C)	50
Efficiency (%)	48

##### General characteristics

Insulation class (conforming to IEC 85)	B (130 °C)
Protection rating	IP40
Max. output power (W)	3,9
Start torque (mNm)	30
Starting current (A)	1,5
Resistance (Ω)	8
Inductance (mH)	10
Torque constant (Nm/A)	0,0214
Electrical time constant (ms)	1,3
Mechanical time constant (ms)	36
Thermal time constant (mn)	8
Inertia (g.cm <sup>2</sup> )	19
Weight (g)	96
Number of segments	3
Service life (h)	3000
Sintered bronze bearings	■
Leads connection 250 mm	-

##### Encoder characteristics

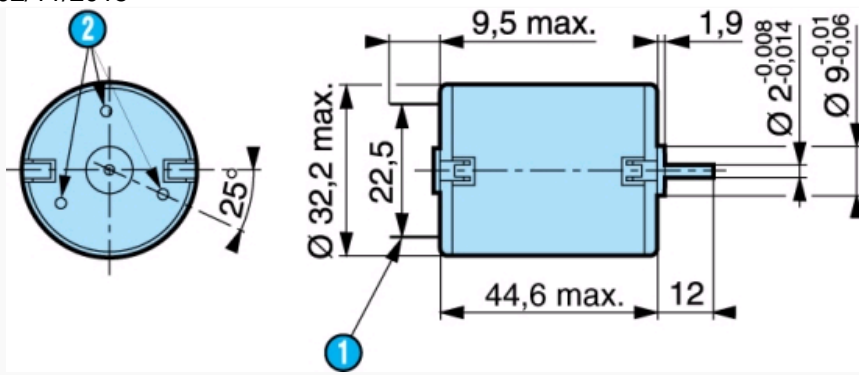
Connection	AWG24
Output current (mA)	< 20
Supply (V)	4,5 →30 DC

#### Made to order products, available on request

- Other supply voltages
- Motor with 2 ball bearings
- Shaft lengths at front and/or rear
- Lead outputs or radial tag terminals
- Special interference suppression
- Encoder : 5 pulses/rev

#### Dimensions (mm)

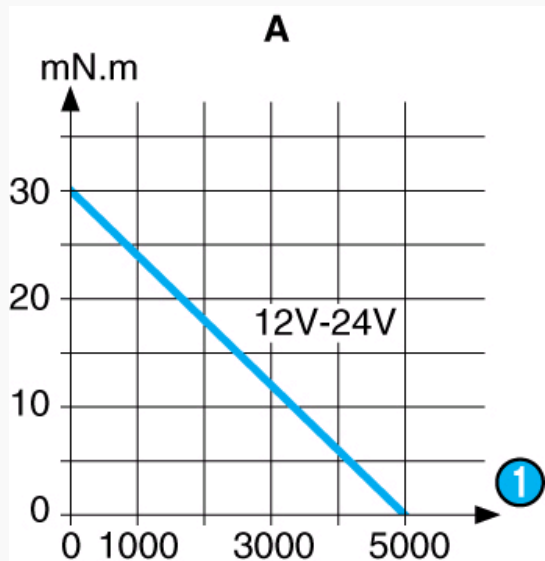
##### Without encoder



N°	Legend
1	2 tags NFC 20 - 120 ; series 2.8 x 0.5
2	3 holes at 120° over Ø 26 mm ; use self-tapping M2.2 screws ; screw depth max. 6 mm

## Curves

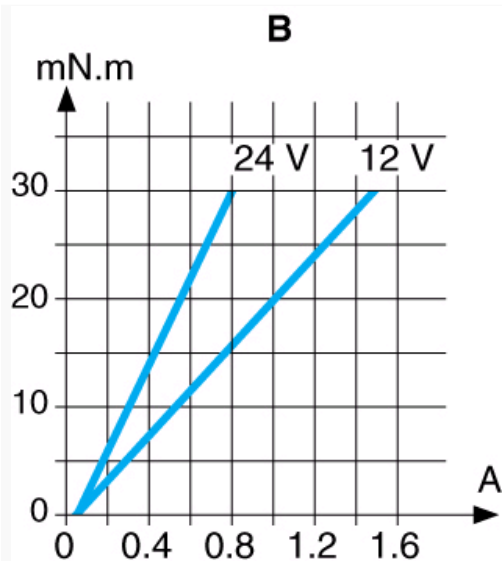
82860



N°	Legend
1	rpm
	Torque/nominal speed curve

## Curves

82860



N°	Legend
	Torque/current curve

#### Product adaptations



- Special output shaft
- Pinion on output shaft
- Special supply voltage
- Special cable length
- Special ball bearings
- Special mounting plate
- Customised electronics
- Special connectors
- Shorter 1 W motor

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