

## Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

[Crouzet](#)  
[82860011](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

**Ø 32 mm 3.9 Watts 3.9 W with leads Part number 82860011**



- 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     |
|----------|------------------|-------|---------|----------------|
| 82860011 | 3.9 W with leads | 82860 | 12 V    | Without 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                 | AWG24      |

**Encoder characteristics**

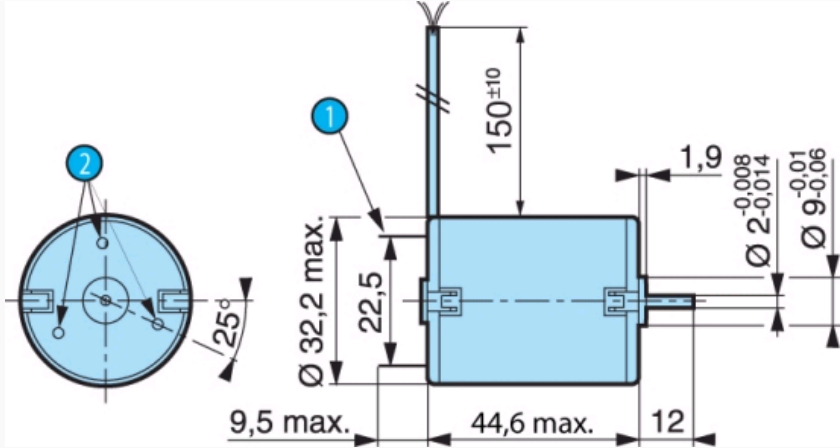
|                     |   |
|---------------------|---|
| Connection          | - |
| Output current (mA) | - |
| Supply (V)          | - |

**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

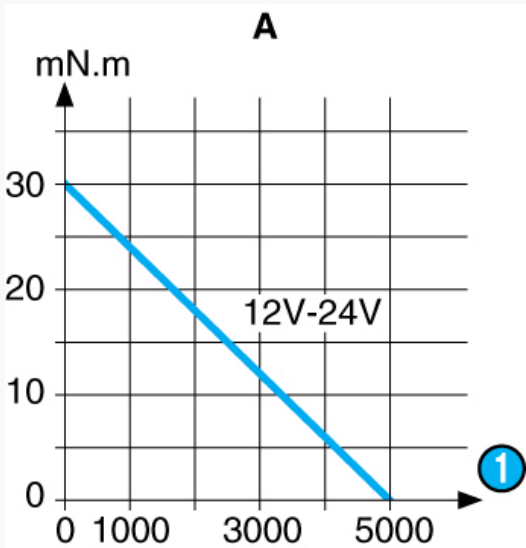
**Dimensions (mm)**

**With 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 |

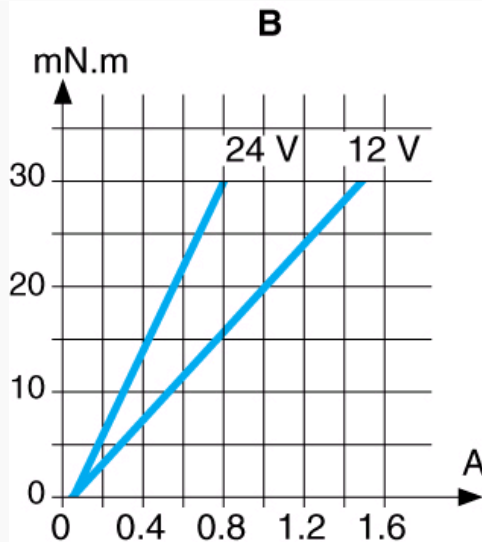
Curves



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

Curves

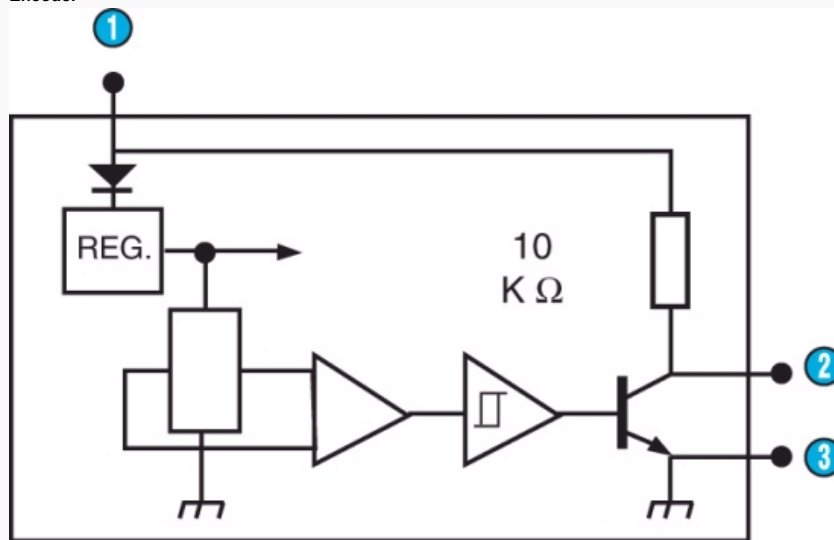
82860



| N° | Legend               |
|----|----------------------|
|    | Torque/current curve |

#### Connections

##### Encoder



| N° | Legend                                       |
|----|----------------------------------------------|
| ①  | Brown : +5 → +24 V DC (encoder power supply) |
| ②  | Yellow : Signal output                       |
| ③  | Blue : 0 V DC (power ground supply)          |

#### 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