



## Ø 36 mm 8 Watts 8 W Part number 82730003



- Long service life
- Class A EMC interference suppression
- Optional class B interference suppression
- Optional encoder with class B interference suppression

	Type	Type	Voltage	References
82730001	8 W	827300	12 V	Without option
82730003	8 W	827300	12 V	With class B EMC filter (radiated)
82730007	8 W	827300	12 V	With 1 pulse/revolution encoder
82730009	8 W	827300	12 V	With 5 pulses/revolution encoder
82730011	8 W	827300	12 V	With 12 pulses/revolution encoder
82730005	8 W	827300	12 V	With 48 pulses/revolution encoder
82730002	8 W	827300	24 V	Without option
82730004	8 W	827300	24 V	With class B EMC filter (radiated)
82730008	8 W	827300	24 V	With 1 pulse/revolution encoder
82730010	8 W	827300	24 V	With 5 pulses/revolution encoder
82730012	8 W	827300	24 V	With 12 pulses/revolution encoder
82730006	8 W	827300	24 V	With 48 pulses/revolution encoder

### No-load characteristics

Speed of rotation (rpm)	4650
Absorbed power (W)	2,5
Absorbed current (A)	0,21

### Nominal characteristics

Speed (rpm)	3265
Torque (mNm)	20
Usable power (W)	6,8
Absorbed power (W)	12
Absorbed current (A)	1
Gearbox case temperature rise (°C)	25
Efficiency (%)	57

### General characteristics

Conformity to standard EN 55022 (radiated EMC)	Class A
Coil wire insulation class	H
Protection rating	IP 20
Max. output power (W)	8,2
Start torque (mNm)	67
Starting current (A)	2,9
Resistance (Ω)	4
Inductance (mH)	3
Torque constant (Nm/A)	0,025
Electrical time constant (ms)	0,65
Mechanical time constant (ms)	19,5
Thermal time constant (mn)	12
Inertia (g.cm <sup>2</sup> )	29
Weight (g)	145
Number of segments	5
Service life (h)	3000
Sintered bronze bearings	▪

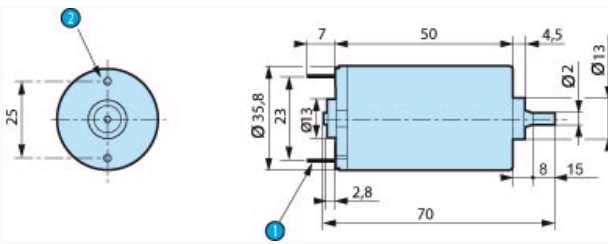
### Encoder characteristics

Connection via connector	▪
Output current (mA)	< 20
Supply (V)	5

### Made to order products, available on request

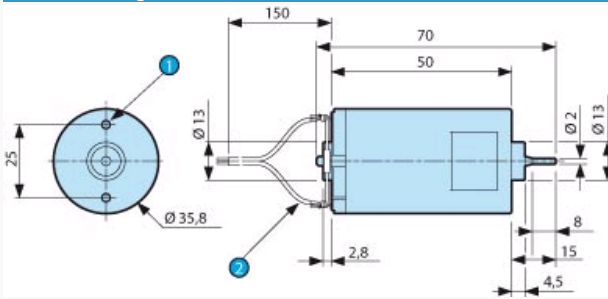
- 1, 5 or 12 pulse encoder
- characteristics as per specification

### Dimension Diagram : 82730001 - 82730002



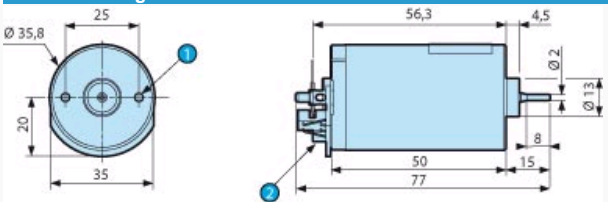
N°	Legend
1	2 solder tags 4.75 x 0.5 mm
2	2 holes M3; screw depth max. 3 mm

**Dimension Diagram : With EMC filter 82730003 - 82730004**



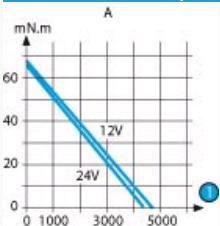
N°	Legend
1	2 holes M3 depth 3 max.
2	AWG 24 leads

**Dimension Diagram : With encoder**



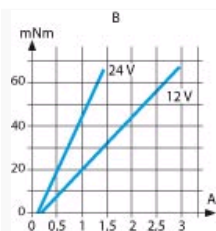
N°	Legend
1	2 holes M3 depth 3 max.
2	Molex connector 87 438 - 0532

**Curves : Curve: torque/speed 827300**

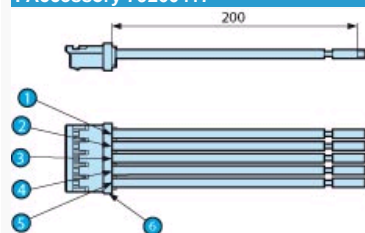


N°	Legend
1	rpm

**Curves : Curve: torque/current 827300**



#### : Accessory 79260417



N°	Legend
1	Motor (+) →red
2	Motor (-) →blue
3	+5 VDC encoder power supply →white
4	0 VDC encoder power supply →blue
5	Encoder output signal →grey
6	Molex connector 87439 - 0500

#### : Internal encoder diagram

Internal encoder diagram

#### Special adaptations

- Encoder with different number of pulses per revolution
- Push-fit pinion
- Additional connectors