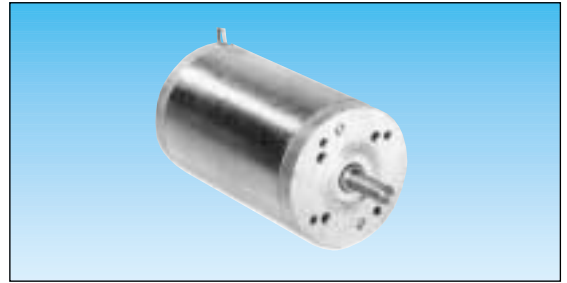


## D.C. direct drive motors Ø 63 mm

- For low-speed drive applications
- Maximum usable power: 33 W
- Ø 63 mm : With 2 ball bearings  
Supply connection by 2 leads



### Applications

- Automatic swimming-pool cleaners
- Filtering systems
- Water circulators for whirlpool baths
- Paper drives for photocopiers
- Opening/closing of automatic doors
- Machines for making spectacle lenses

### Made to order products, available on request

- other supply voltages
- shaft lengths at front and/or rear
- integrated interference suppression (82 830)
- shaft encoders
- other front and rear fixing plates
- short version possible (L = 90 mm)

### Type

82 830 0

### Nominal voltage

12 V

### Part number

82 830 009

### Standard Characteristics

|                  |     |      |
|------------------|-----|------|
| Speed            | rpm | 2100 |
| Absorbed power   | W   | 4.8  |
| Absorbed current | A   | 0.4  |

### Characteristics - nominal

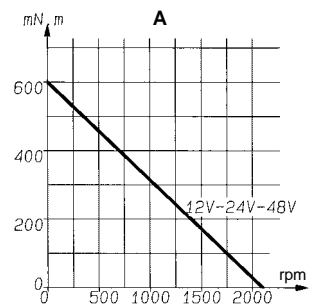
|                               |      |      |
|-------------------------------|------|------|
| Speed                         | rpm  | 1500 |
| Torque                        | mN.m | 172  |
| Output power                  | W    | 27   |
| Absorbed power                | W    | 43   |
| Absorbed current              | A    | 3.6  |
| Gearbox case temperature rise | °C   | 50   |
| Efficiency                    | %    | 62   |

### General characteristics

|   |                   |            |
|---|-------------------|------------|
| Insulation class (conforming to IEC 85) |                   | F (155 °C) |
| Degree of protection (IEC 529)          |                   | IP20       |
| Maximum usable power                    | W                 | 33         |
| Start torque                            | mN.m              | 600        |
| Start current                           | A                 | 12         |
| Resistance                              | Ω                 | 1          |
| Resistance : inductive                  | mH                | 1.4        |
| Torque constant                         | Nm/A              | 0.0517     |
| Electrical time constant                | ms                | 1.4        |
| Mechanical time constant                | ms                | 19         |
| Thermal time constant                   | min               | 37         |
| Inertia                                 | g.cm <sup>2</sup> | 514        |
| Weight                                  | g                 | 840        |
| No of segments                          |                   | 12         |
| Life                                    | h                 | 5000       |
| Ball bearings                           |                   | yes        |
| Lead length                             | mm                | 200        |

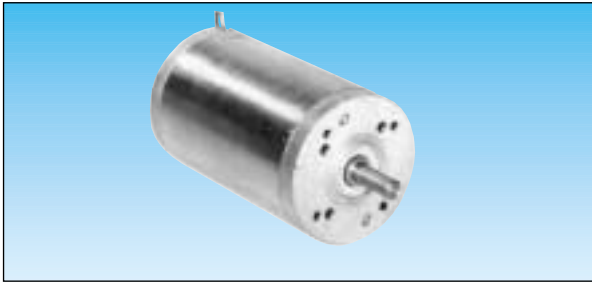
### A - Torque/Speed curves

### B - Torque/Current curves



### Other information

Basic principles see page 1/5.

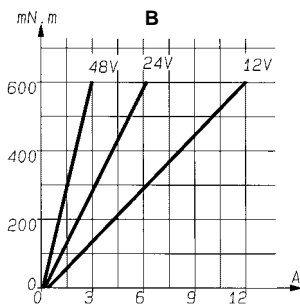


|          |                   |                 |
|----------|-------------------|-----------------|
| <b>1</b> | <b>82 830 0</b>   | <b>82 830 0</b> |
| <b>2</b> | <b>24 V</b>       | <b>48 V</b>     |
| <b>3</b> | <b>82 830 010</b> | •               |

|      |      |
|------|------|
| 2100 | 2100 |
| 4.8  | 4.8  |
| 0.2  | 0.1  |
| 1500 | 1500 |
| 172  | 172  |
| 27   | 27   |
| 45   | 43   |
| 1.9  | 0.9  |
| 50   | 50   |
| 60   | 62   |

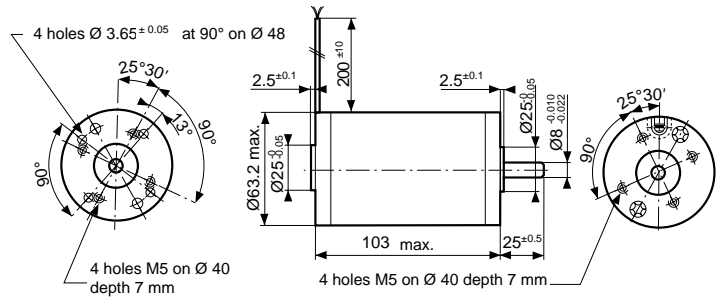
|            |            |
|------------|------------|
| F (155 °C) | F (155 °C) |
| IP20       | IP20       |
| 33         | 33         |
| 600        | 600        |
| 6.2        | 3          |
| 3.9        | 16         |
| 6.4        | 26.3       |
| 0.1        | 0.2069     |
| 1.64       | 1.64       |
| 19         | 30         |
| 37         | 37         |
| 492        | 496        |
| 840        | 840        |
| 12         | 12         |
| 5000       | 5000       |
| yes        | yes        |
| 200        | 200        |

**82 830 0**



**Dimensions**

**82 830 0**



**To order, specify :**

|  |   |
|--|---|
| <p>Standard products</p> <p>• Standard products, non stocked</p> | <p><b>3</b> Part number<br/>Example : D.C. direct drive motor - 82 830 009</p> <p><b>1</b> Type<br/>Example : D.C. direct drive motor - 82 830 0 - 48 V</p> <p><b>2</b> Nominal voltage</p> |
|--|---|