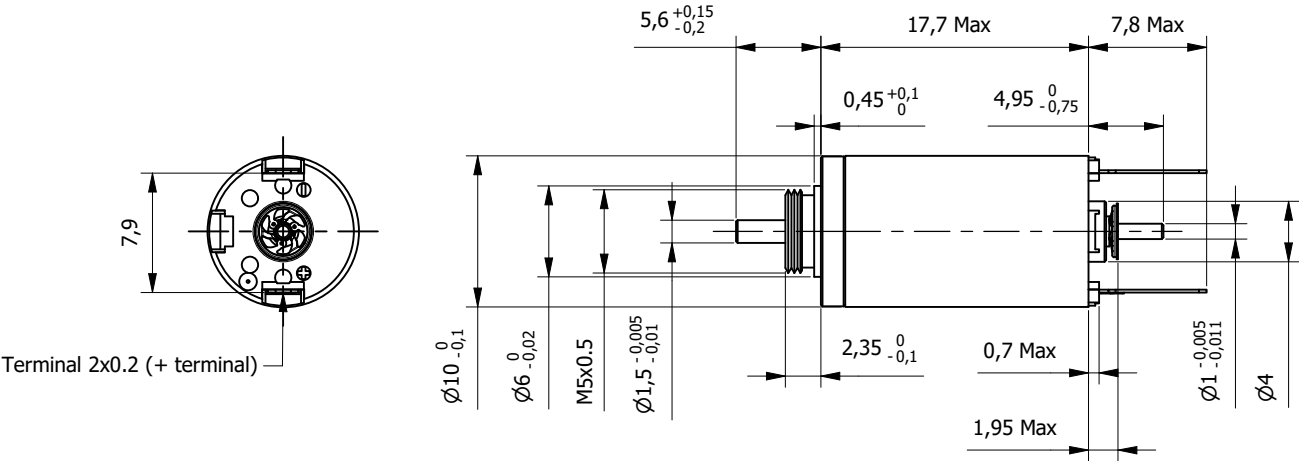


# Brushed DC Coreless Motor 10DC17N-PM

Precious Metal brushes

Ø 10mm - 1mNm



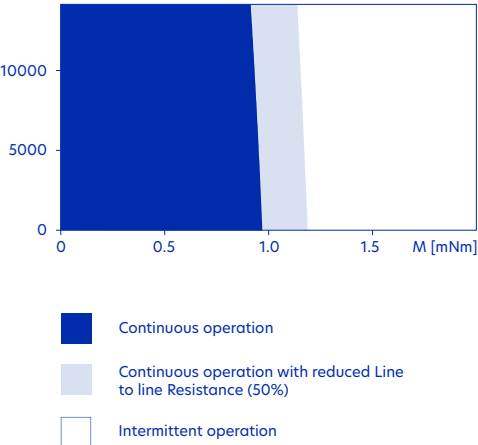
Product also available with ball bearings

| Specification |                          |                      |         |         |        |
|---------------|--------------------------|----------------------|---------|---------|--------|
|               | Model                    | ...4604              | ...3319 | ...3874 |        |
| 1             | Rated Voltage            | V                    | 3       | 6       | 12     |
| 2             | Rated Speed              | rpm                  | 4690    | 3310    | 3890   |
| 3             | Rated Torque             | mNm                  | 0,948   | 0,993   | 0,905  |
| 4             | Stall Torque             | mNm                  | 1,54    | 1,46    | 1,37   |
| 5             | Torque Constant          | mNm/A                | 2,07    | 4,74    | 8,53   |
| 6             | Motor Regulation         | 10 <sup>3</sup> /Nms | 942,8   | 867,9   | 1029,4 |
| 7             | Rated Current            | A                    | 0,49    | 0,223   | 0,114  |
| 8             | Stall Current            | A                    | 0,742   | 0,307   | 0,16   |
| 9             | No-load Current          | mA                   | 43,8    | 18,2    | 10,5   |
| 10            | No-load Speed            | rpm                  | 13000   | 11400   | 12500  |
| 11            | Line to Line Resistance  | Ω                    | 4,04    | 19,5    | 74,9   |
| 12            | Line to Line Inductance  | mH                   | 0,051   | 0,268   | 0,868  |
| 13            | Rotor Inertia            | gcm2                 | 0,077   | 0,081   | 0,071  |
| 14            | Max. Efficiency          | %                    | 58      | 58      | 56     |
| 15            | Mechanical Time Constant | ms                   | 7,19    | 7,03    | 7,26   |
| 16            | Length (L)               | mm                   | 17,7    | 17,7    | 17,7   |
| 17            | Weight                   | g                    | 6,3     | 6,3     | 6,3    |

| Characteristics                     |                |
|-------------------------------------|----------------|
| Item                                |                |
| Ambient Temperature Sleeve bearings | -30°C to +85°C |
| Max. Winding Temperature            | +100°C         |
| Max. Speed                          | 14300rpm       |
| Radial play                         | 0,015mm        |
| Axial play                          | 0 to 0,15mm    |
| Max. Radial force (5mm from flange) | 0,8N           |
| Max. Axial force                    | 0,1N           |
| Max. Force for Press fit            | 30N            |

| Standard Combination       |  |
|----------------------------|--|
| Gearbox                    |  |
| 10GPS                      |  |
| * other options on request |  |

Operating range: Winding 4.5V

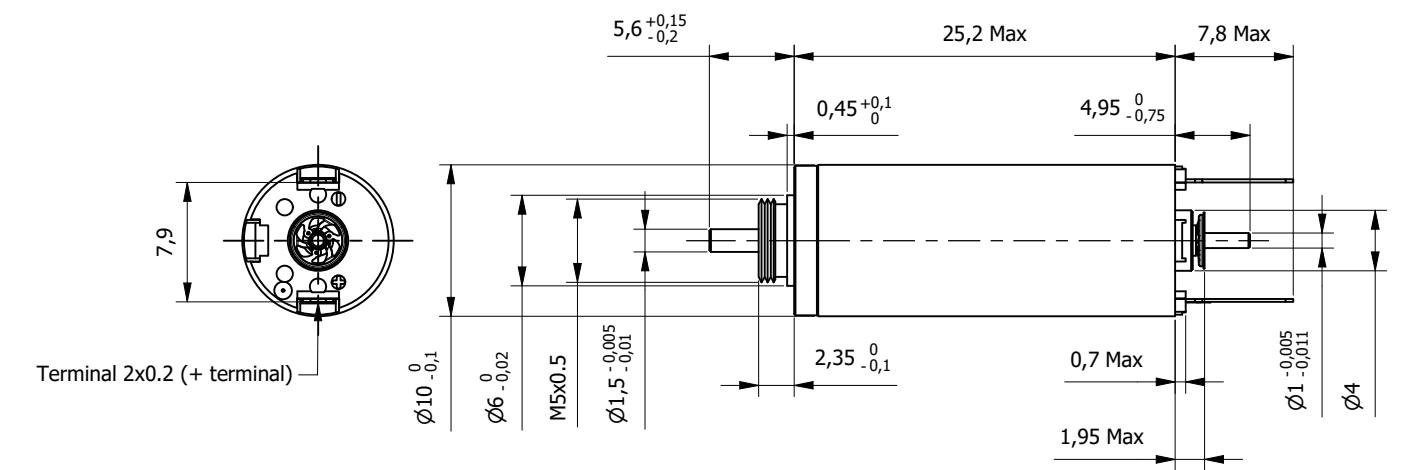


# Brushed DC Coreless Motor

Precious Metal brushes

10DC25N-PM

Ø 10mm - 2mNm



Product also available with ball bearings

| Specification |                          |                      |         |         |         |
|---------------|--------------------------|----------------------|---------|---------|---------|
|               | Model                    |                      | ...6901 | ...6606 | ...5927 |
| 1             | Rated Voltage            | V                    | 3       | 6       | 12      |
| 2             | Rated Speed              | rpm                  | 6930    | 6640    | 5980    |
| 3             | Rated Torque             | mNm                  | 2,05    | 1,94    | 2,03    |
| 4             | Stall Torque             | mNm                  | 4,81    | 4,32    | 4,36    |
| 5             | Torque Constant          | mNm/A                | 2,31    | 4,61    | 10      |
| 6             | Motor Regulation         | 10 <sup>3</sup> /Nms | 269,9   | 301,1   | 273,0   |
| 7             | Rated Current            | A                    | 0,922   | 0,436   | 0,211   |
| 8             | Stall Current            | A                    | 2,09    | 0,937   | 0,439   |
| 9             | No-load Current          | mA                   | 38,7    | 19,3    | 8,71    |
| 10            | No-load Speed            | rpm                  | 12200   | 12200   | 11300   |
| 11            | Line to Line Resistance  | Ω                    | 1,44    | 6,4     | 27,3    |
| 12            | Line to Line Inductance  | mH                   | 0,02    | 0,078   | 0,362   |
| 13            | Rotor Inertia            | gcm2                 | 0,132   | 0,119   | 0,13    |
| 14            | Max. Efficiency          | %                    | 75      | 74      | 74      |
| 15            | Mechanical Time Constant | ms                   | 3,57    | 3,58    | 3,59    |
| 16            | Length (L)               | mm                   | 25,2    | 25,2    | 25,2    |
| 17            | Weight                   | g                    | 11      | 11      | 11      |

| Characteristics                     |                |
|-------------------------------------|----------------|
| Item                                |                |
| Ambient Temperature Sleeve bearings | -30°C to +85°C |
| Max. Winding Temperature            | +100°C         |
| Max. Speed                          | 14300rpm       |
| Radial play                         | 0,015mm        |
| Axial play                          | 0 to 0,15mm    |
| Max. Radial force (5mm from flange) | 0,8N           |
| Max. Axial force                    | 0,1N           |
| Max. Force for Press fit            | 30N            |

| Standard Combination       |  |
|----------------------------|--|
| Gearbox                    |  |
| 10GPS                      |  |
| * other options on request |  |

Operating range: Winding 4.5V

