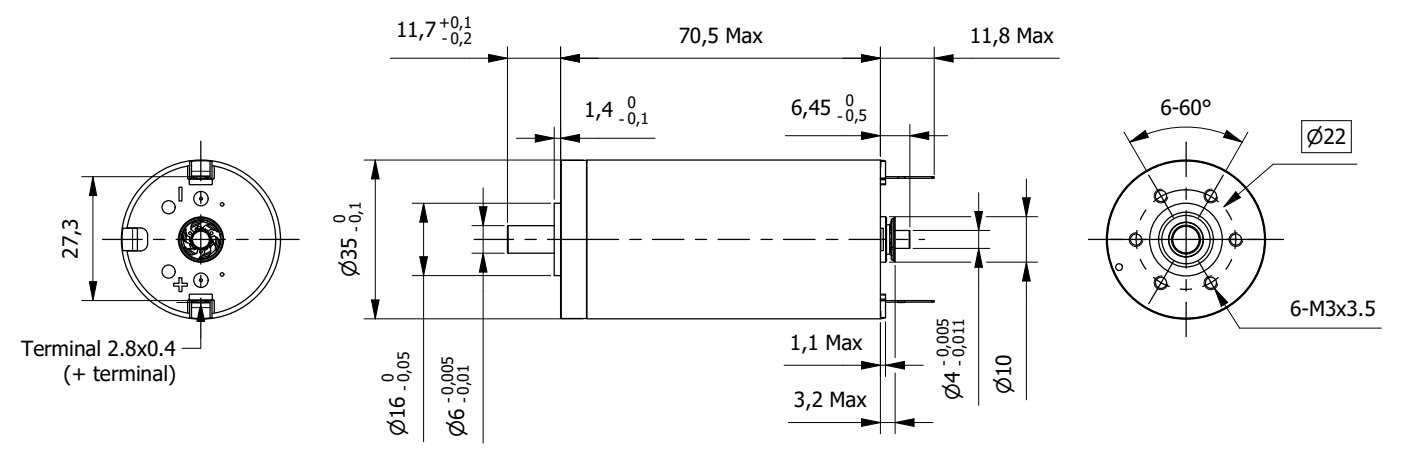


# Brushed DC Coreless Motor 35DC70N-G

Graphite brushes

Ø 35mm - 138mNm



| Specification |                          |                      |         |         |         |
|---------------|--------------------------|----------------------|---------|---------|---------|
|               | Model                    |                      | ...7607 | ...7103 | ...6101 |
| 1             | Rated Voltage            | V                    | 12      | 24      | 48      |
| 2             | Rated Speed              | rpm                  | 7610    | 7160    | 6140    |
| 3             | Rated Torque             | mNm                  | 77,7    | 121     | 138     |
| 4             | Stall Torque             | mNm                  | 2080    | 2030    | 1860    |
| 5             | Torque Constant          | mNm/A                | 13,7    | 29,3    | 68,3    |
| 6             | Motor Regulation         | 10 <sup>3</sup> /Nms | 0,4     | 0,4     | 0,4     |
| 7             | Rated Current            | A                    | 6       | 4,26    | 2,08    |
| 8             | Stall Current            | A                    | 152     | 69,3    | 27,3    |
| 9             | No-load Current          | mA                   | 320     | 146     | 58,6    |
| 10            | No-load Speed            | rpm                  | 8130    | 7720    | 6670    |
| 11            | Line to Line Resistance  | Ω                    | 0,079   | 0,346   | 1,76    |
| 12            | Line to Line Inductance  | mH                   | 0,026   | 0,121   | 0,658   |
| 13            | Rotor Inertia            | gcm2                 | 99,5    | 96,6    | 99,5    |
| 14            | Max. Efficiency          | %                    | 85      | 89      | 90      |
| 15            | Mechanical Time Constant | ms                   | 4,21    | 3,91    | 3,76    |
| 16            | Length (L)               | mm                   | 70,5    | 70,5    | 70,5    |
| 17            | Weight                   | g                    | 385     | 385     | 385     |

| Characteristics                     |                 |
|-------------------------------------|-----------------|
| Item                                |                 |
| Ambient Temperature Ball bearings   | -40°C to +100°C |
| Max. Winding Temperature            | +155°C          |
| Max. Speed                          | 12300rpm        |
| Radial play                         | 0,02mm          |
| Axial play                          | 0 to 0,1mm      |
| Max. Radial force (5mm from flange) | 65,3N           |
| Max. Axial force                    | 7N              |
| Max. Force for Press fit            | 22,6N           |

