

## MB076HG DC Brush Motor

### ● General Information

- Stator with permanent rare earth magnet stator which are glued and protected by a stainless steel sleeve
- Motor insulation and winding in class F
- High quality front-locked life-lubricated bearings
- Protection class IP44

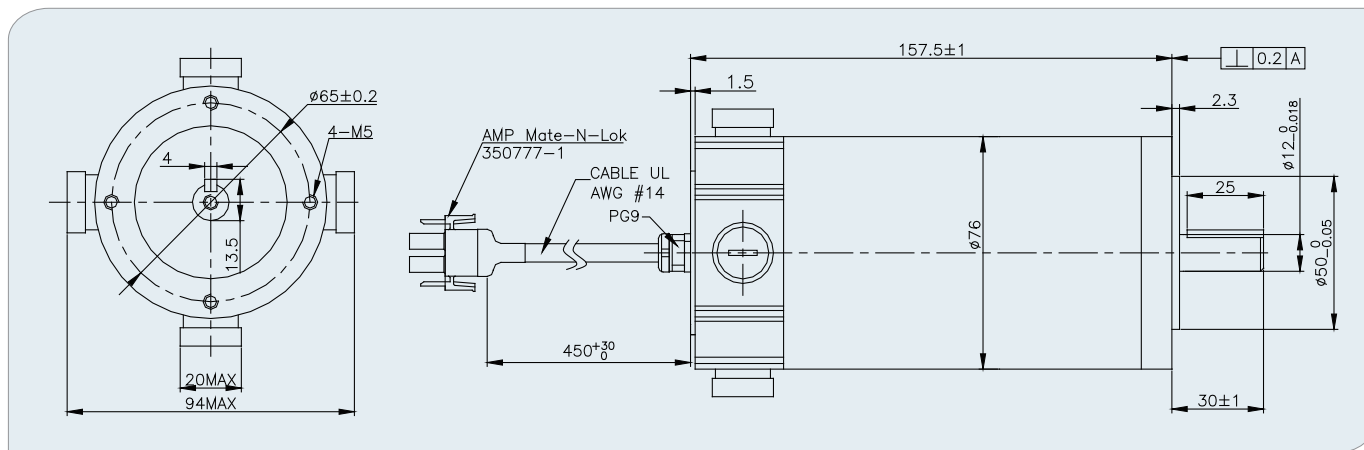


### ● Specification

| Specification          | Unit              | MB076HG200 | MB076HG210 | MB076HG220 | MB076HG230 | MB076HG400 | MB076HG410 |
|------------------------|-------------------|------------|------------|------------|------------|------------|------------|
| Rated Voltage ( Vs )   | Vdc               | 24         | 24         | 42         | 48         | 48         | 90         |
| Rated Current          | A                 | 9.4        | 12.5       | 6.4        | 4.56       | 9.5        | 5.5        |
| Rated Torque           | Nm                | 0.93       | 0.75       | 0.78       | 0.8        | 1.39       | 1.32       |
| Rated Power            | W                 | 185        | 247        | 237        | 184        | 408        | 442        |
| Rated Speed            | rpm               | 1900       | 3150       | 2900       | 2200       | 2800       | 3200       |
| Peak Current           | A                 | 30         | 43.5       | 21.6       | 16.5       | 37.8       | 21.9       |
| Peak Torque            | Nm                | 3.09       | 2.79       | 0.48       | 3          | 5.7        | 5.7        |
| Torque Constant ( KT ) | Nm/A              | 0.1        | 0.06       | 0.13       | 0.18       | 0.15       | 0.26       |
| Back-EMF ( KE )        | V/KRPM            | 11.06      | 6.9        | 13.8       | 19.9       | 16.65      | 27.7       |
| Resistance ( Rmt )     | Ω                 | 0.38       | 0.29       | 0.48       | 0.91       | 0.39       | 0.95       |
| Inductance ( L )       | mH                | 0.35       | 0.14       | 0.55       | 1.05       | 0.34       | 0.9        |
| Rotor Inertia ( Jr )   | kg-m <sup>2</sup> | 1.06E-04   | 1.06E-04   | 1.06E-04   | 1.06E-04   | 3.3E-04    | 3.3E-04    |
| Weight                 | kg                | 2.3        | 2.3        | 2.3        | 2.3        | 3.6        | 3.6        |
| Motor Length           | mm                | 114        | 114        | 114        | 114        | 154        | 154        |

# MB076HG

## Mechanical



## Characteristic diagram

