

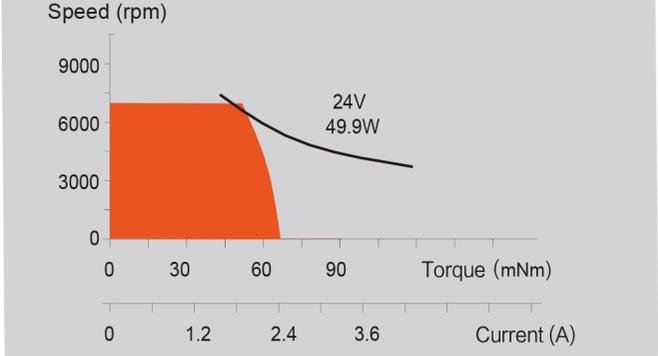
Motor Data

| Motor model | | | SBR3010124Z-02 | SBR3010136Z-02 | SBR3010148Z-02 | | |
|--------------------------|-----------|-----------------------|----------------|----------------|----------------|--|--|
| 1 Nominal voltage | V | V | 24 | 36 | 48 | | |
| 2 No load speed | rpm | Wnl | 7200 | 8400 | 6900 | | |
| 3 No load current | mA | InI | <400 | <300 | <200 | | |
| 4 Nominal speed | rpm | Wc | 6600 | 7700 | 6300 | | |
| 5 Nominal torque | mNm | Tc | 72 | 70 | 71 | | |
| 6 Nominal current | A | Ic | 2.3 | 1.74 | 1.09 | | |
| 7 Output power | W | Pc | 49.9 | 56.6 | 47.5 | | |
| 8 Stall torque | mNm | Tmax | 751 | 724 | 789.9 | | |
| 9 Stall current | A | Imax | 24 | 18 | 12.1 | | |
| 10 Max. efficiency | % | η_{max} | 90.4 | 90.3 | 91 | | |
| 11 Terminal resistance | Ω | Rt | 1 | 2 | 3.97 | | |
| 12 Terminal inductance | L | mH | 0.26 | 0.72 | 1 | | |
| 13 Torque constant | mNm / A | Kt | 31.3 | 40.24 | 65.33 | | |
| 14 Speed constant | rpm / V | Kn | 305.08 | 237.2 | 146.17 | | |
| 15 Speed torque gradient | rpm / mNm | $\Delta n / \Delta T$ | 8.05 | 9.76 | 7.25 | | |

Specifications

| | | |
|---------------------------------------|------------|--------------|
| 1 ambient temperature | Ta | -20~+65 °C |
| 2 max. winding temperature | Tcoilmax | +85 °C |
| 3 max. speed | Nmax | 9240 rpm |
| 4 axial play | Δt | 0.05-0.15 mm |
| 5 number of pole pairs | 2p | 1 |
| 6 number of commutator segments | | 3 |
| 7 weight of motor | Wt | 346 g |
| 8 Max. axial load (dynamic) | | 5N |
| 9 Max. force for press fits (static) | | 98N |
| 10 Max. radial load, 4 mm from flange | | 25N |

Operating Range



Terminal definitions

