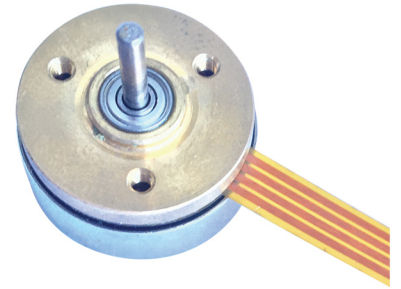


20mm Outer Rotor Brushless DC Motor



GENERAL SPECIFICATION

| | | | |
|---------------------|-----------------------------|-----------------------|-----------------------|
| Winding type | Star | Insulation Resistance | 100MΩMin. ,500VDC |
| Hall effect angle | 120 degree electrical angle | Dielectric Strength | 300VAC for one minute |
| Resistance Accuracy | ±10% @20°C | Shaft Radial Play | 0.02Max. (450 g-load) |
| Inductance Accuracy | ±20% @1kHz | Shaft Axial Play | 0.15Max. (450 g-load) |
| Ambient Temperature | -20°C~+50°C | Insulation class | Class B |

ELECTRICAL SPECIFICATION

| Model | | 20DMWO10-0630 | 20DMWO10-0941 |
|-------------------------|-------------------|---------------|---------------|
| Number of poles | | 8 | |
| Number of phase | | 3 | |
| Rated voltage | VDC | 6 | 9 |
| Rated speed | RPM | 3090 | 4180 |
| No-load speed | RPM | 9130 | 9760 |
| No-load current | A | 0.3 | 0.3 |
| Rated power | W | 1 | 2 |
| Rated torque | mN.m | 3.21 | 4.05 |
| Rated current | A | 0.55 | 0.48 |
| Peak torque | mN.m | 9.63 | 12.15 |
| Peak current | A | 1.65 | 1.44 |
| Maximum efficiency | % | 60 | 65 |
| Line to line resistance | ohms | 4.2 | 7.5 |
| Line to line inductance | mH | 0.6 | 1.2 |
| Torque constant | mN.m/A | 6.0 | 8.4 |
| Back E.M.F | Vrms/KRPM | 0.46 | 0.65 |
| Rotor inertia | g.cm ² | 3.9 | |
| Weight | Kg | 0.015 | |
| Length | mm | 10 | |

