



| MOTOR SPECIFICATION | | CONNECTION | | |
|-----------------------------------|-------------------|------------|-------------------|----------|
| | | UNIPOLAR | SERIES | PARALLEL |
| Voltage | V DC | 2.04 | | |
| Current per Winding | A | 3.0 | 2.12 | 4.24 |
| Resistance per Phase (25°C) ±15% | Ω | 0.68 | 1.36 6 | 0.34 6 |
| Inductance per Phase (1 kHz) ±20% | mH | 0.8 | 3.2 6 | 0.8 6 |
| Holding Torque | Nm | 0.78 | 1.1 2 | 1.1 2 |
| Step Angle ±5% | ° | 1.8 | | |
| Rotor Inertia | kg m ² | 27.5 | x10 ⁻⁶ | |

| GENERAL MOTOR SPECIFICATION | | |
|--|------|-----------|
| Ambient Temperature | °C | -10 ...50 |
| Max. Temperature Rise (at standstill - 2 phases energized) | °C | 80 |
| Max. Ambient Humidity (non condensing) | % | 85 |
| Insulation Class | | B |
| Insulation Resistance | MΩ | 100 |
| Dielectric Strength (for 1 min - coil to case) | V AC | 500 |

| TYPE OF CONNECTION | | | | |
|--------------------|--------|----------|-------------|---------|
| Unipolar | Series | Parallel | Wire Colour | Winding |
| A | A | A | BU/WH | A |
| COM | | | BU | |
| A\ | A\ | A\ | RD/WH | A\ |
| B | B | B | GN/WH | B |
| COM | | | GN | |
| B\ | B\ | B\ | BK/WH | B\ |
| | | | BK | |

| A-Shaft | Preload Spring | B-Shaft |
|-----------------------------------|----------------|---------|
| | | |
| Max. Axial Force Fa | N | 14 |
| Max. Radial Force Fr (a1 = 5 mm) | N | 163 |
| Max. Radial Force Fr (a2 = 20 mm) | N | 63 |
| Axial Play Fa = 10 N | mm | 0,075 |
| Radial Play Fr = 5.0 N | mm | 0,025 |

| ISO 8015 | ISO 1302 | ISO 2768 cK | ISO 13715 | Weight: 0.6 kg |
|----------|-------------------------|-------------|------------|----------------------|
| | | Date | Name | ST6018X3008-B |
| | | Drawn | Import | |
| | | Checked | Reith_S | |
| | | Approved | Schneid_A | |
| 06 | change res./ind. / tol. | Schneid_A | 06.12.2018 | 01000963 |
| REV | Rev. Text | Name | Rel. Date | State: Released |

Nanotec
PLUG & DRIVE

Rev: 06 P