



Dimensions in mm.

| Electrical Data | Symbol | 26BC 3C-109P.101 | Unit |
|---|-------------|------------------|--|
| 1 Nominal Voltage | U_N | 12 | Volt |
| 2 Optimization Direction | - | n.a. | - |
| 3 No-Load Speed | n_0 | 14,800 | rpm |
| 4 Typical No-Load Current | I_0 | 180.0 | mA |
| 5 Max Continuous Mechanical Power (@25°C) | P_{max} | 8.0 | W |
| 6 Max Continuous Current | $I_{e,max}$ | 0.8 | A |
| 7 Max Continuous Torque | $M_{e,max}$ | 7 (1) | mNm (oz-in) |
| 8 Back EMF Constant | k_E | 0.73 | V/1000 rpm |
| 9 Torque Constant | k_M | 7.0 | mNm/A |
| 10 Motor Regulation | R/k^2 | 102.0 | 10 ³ /Nms |
| 11 Motor Regulation | $k/R^{1/2}$ | 3.1 (0.44) | mNm/W ^{1/2} (oz-in/W ^{1/2}) |
| 12 Internal Resistance - phase to phase | R_i | 5.00 | ohms |
| 13 Line to Line Resistance at Connectors | R_L | 5.00 | ohms |
| 14 Inductance Phase to Phase | L | 0.09 | mH |
| 15 Mechanical Time Constant | τ_m | 95.0 | ms |
| 16 Electrical Time Constant | τ_e | 0.02 | ms |

| General Data | | | |
|---|-----------|-------------------------|-------------------|
| 17 Maximum Motor Speed | n_{max} | 20,000 | rpm |
| 18 Ambient Working Temperature Range | - | 0 to + 70 (+32 to +158) | °C (°F) |
| 19 Ambient Storage Temperature Range | - | 0 to + 70 (+32 to +158) | °C (°F) |
| 20 Ball Bearings Preload | - | 5.0 | N |
| 21 Axial Static Force w/o Shaft Support (max) | - | 45.0 | N |
| 22 Maximum Winding Temperature | - | 125 (257) | °C (°F) |
| 23 Thermal Resistance | R_{th} | 14.0 | °C/W |
| 24 Thermal Time Constant | τ_w | 660 | s |
| 25 Weight | - | 72 (2.54) | g (oz) |
| 26 Rotor Inertia | J | 9.400 | g-cm ² |
| 27 Hall Sensor Electrical Phasing | - | NA | Electrical ° |

| Wire | Description |
|-------------------|-------------|
| Gray | Phase 1 |
| Violet | Phase 2 |
| Blue | Phase 3 |
| sensorless | |

