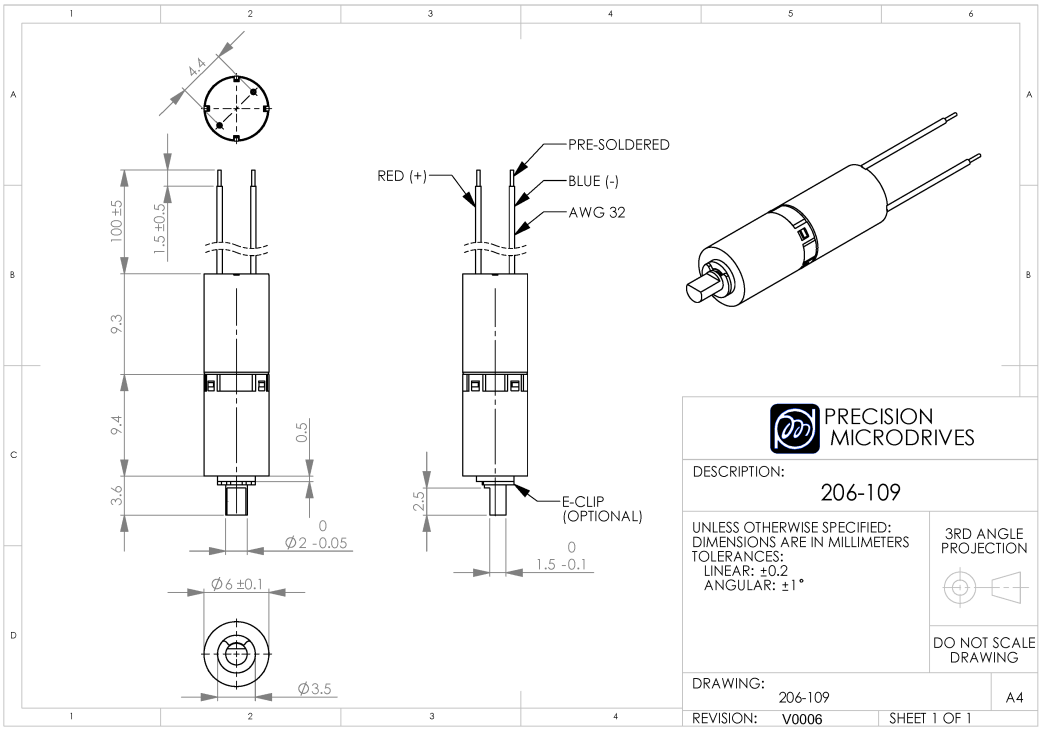
# **206-109** 6mm DC Gearmotor - 19mm Type




| | | | Samples available | | | |
|---|---|---|---|---|---|---|
| | | **Units** | **206-109** | | | |
| **Design and Accessories** | | | | | | |
| 1 | Commutation | | Precious Metal Brush | | | |
| 2 | No. of Output Shafts | | 1 | | | |
| 3 | Unit Weight | g | 1.2 | | | |
| 4 | Body Diameter | mm | 6 | | | |
| 5 | Body Length | mm | 18.7 | | | |
| 6 | Rotation Direction | | CW | | | |
| 7 | Bearing Type | | Sintered Bronze | | | |
| **Physical Characteristics** | | | | | | |
| 8 | Shaft Diameter | mm | 2 | | | |
| 9 | Shaft Length | mm | 3.6 | | | |
| 10 | Shaft Orientation | | Inline | | | |
| 11 | Motor Construction | | Coreless | | | |
| **Operational Characteristics** | | | | | | |
| 12 | Rated Operating Voltage | V | 3 | | | |
| 13 | Rated Load | mN·m | 3 | | | |
| 14 | Rated Load Speed | rpm | 140 | | | |
| 15 | N/L Speed | rpm | 240 | | | |
| 16 | Max. Start Voltage | V | 0.5 | | | |
| 17 | Max. N/L Current | mA | 45 | | | |
| 18 | Max. Operating Voltage | V | 3.6 | | | |
| 19 | Max. Rated Load Current | mA | 90 | | | |
| 20 | Min. Insulation Resistance | MOhm | 1 | | | |
| 21 | Max. Start Current | mA | 230 | | | |
| 22 | Typical Rated Load Power Consumption | mW | 215 | | | |
| 23 | Typical N/L Current | mA | 38 | | | |
| 24 | Typical Peak Efficiency | % | 26 | | | |
| 25 | Typical Peak Eff. Torque | mN·m | 4 | | | |
| 26 | Typical Peak Eff. Speed | rpm | 160 | | | |
| 27 | Typical Peak Eff. Current | mA | 85 | | | |
| 28 | Typical Peak Eff. Power Out | mW | 65 | | | |
| 29 | Typical Start Current | mA | 185 | | | |

| | | | |
|---|---|---|---|
| 30 | Typical Max. Output Power | mW | 75 |
| 31 | Typical Stall Torque | mN·m | 9 |
| **Gear Characteristics** | | | |
| 32 | Gear Ratio | :1 | 136 |
| 33 | Gearhead Type | | Planetary |
| **Leads & Connectors Characteristics** | | | |
| 34 | Lead Length | mm | 100 |
| 35 | Lead Wire Gauge | AWG | 32 |
| 36 | Lead Configuration | | Straight |
| 37 | Lead Strip Length | mm | 1.5 |
| **Winding Characteristics** | | | |
| 38 | Typical Terminal Resistance | Ohm | 14.5 |
| 39 | Typical Terminal Inductance | uH | 70 |
| **Environmental Characteristics** | | | |
| 40 | Max. Operating Temp. | °C | 60 |
| 41 | Min. Operating Temp. | °C | -10 |
| 42 | Max. Storage & Transportation Temp. | °C | 70 |
| 43 | Min. Storage & Transportation Temp. | °C | -20 |
| **Packaging** | | | |
| 44 | No. Units per Carton | pcs | 2,000 |
| 45 | Carton Type | | Boxed Trays |

| **Motor Body Characteristics** | | |
|---|---|---|
| 46 | No. of Poles | |
| 47 | Shaft Axial Float | mm |

**Performance**