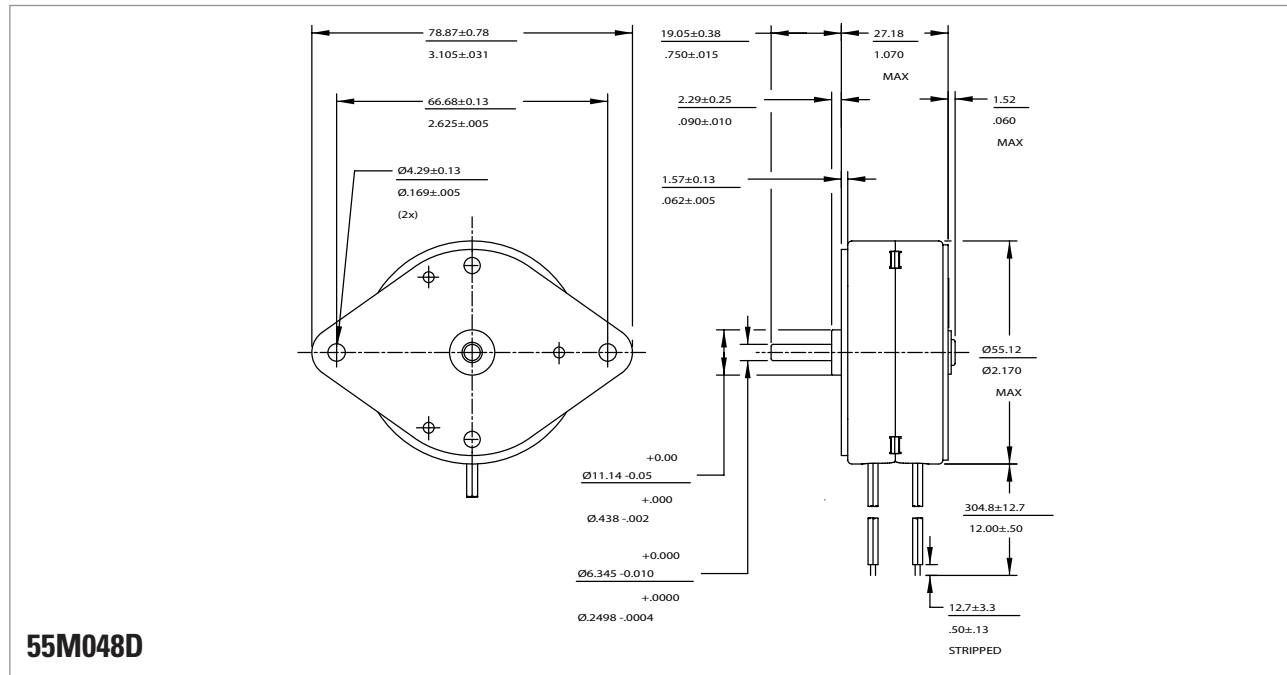


55M048D



55M048D

Technical Specifications

| Part Number | Unipolar | | Bipolar | | |
|--|---|-------------------------------|-----------|------------|-------|
| | 55M048D1U | 55M048D2U | 55M048D1B | 55M048D2B | |
| Rated voltage | (vdc) | 5 | 12 | 5 | 12 |
| Resistance per phase ± 10% | (ohms) | 5.20 | 30.00 | 5.20 | 30.00 |
| Inductance per phase, Typ | (mH) | 4.70 | 29.50 | 9.00 | 59.00 |
| Rated current per phase * | (amps) | 0.96 | 0.40 | 0.96 | 0.40 |
| Holding torque, min * | (oz-in / mNm) | 23.0 / 163 | | 27.6 / 195 | |
| Step angle * | (degrees) | 7.5 ± 0.5° | | | |
| Steps per revolution * | | 48 | | | |
| Detent torque, max | (oz-in / mNm) | 5.5 / 39 | | | |
| Thermal resistance | (°C / watt) | N.A. | | | |
| Rotor moment of inertia | (oz-in-s ² / g-cm ²) | 0.264 / 48.3 | | | |
| Ambient temperature range | | | | | |
| Operating | (°C) | -20 ~ +70 | | | |
| Storage | (°C) | -40 ~ +85 | | | |
| Bearing type | | Sintered Bronze Sleeve | | | |
| Insulation resistance at 500vdc | (MΩ) | 100 | | | |
| Dielectric withstanding voltage | (vrms) | 650 for 2 seconds | | | |
| Weight | (lbs / g) | 0.53 / 238 | | | |
| Shaft load ratings, max at 1500 rpm | | | | | |
| Radial | (lbs / kg) | 2.25 / 1.02 (at shaft center) | | | |
| Axial | (lbs / kg) | 1.13 / 0.51 (both directions) | | | |
| Leadwires | | AWG 26, UL 1430 | | | |
| Temperature class, max | (°C) | B(130°C) | | | |
| RoHS | | Compliant | | | |

All motor data values at 25°C unless otherwise specified

* Energise at rated current, 2 phase on

