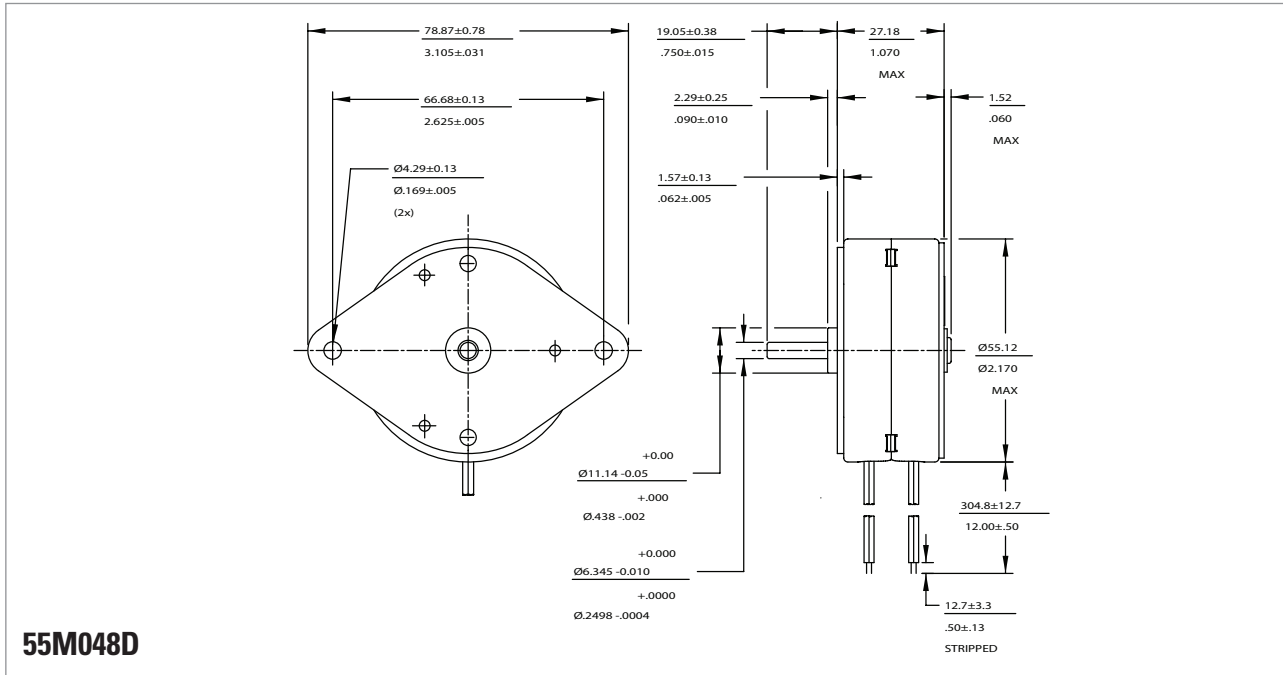


## 55M048D



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 <sup>2</sup> / g-cm <sup>2</sup> )			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

