



35L048B

Technical Specifications

Part Number	Unipolar		Bipolar		
	35L048B1U	35L048B2U	35L048B1B	35L048B2B	
Rated voltage	(vdc)	5	12	5	12
Resistance per phase $\pm 10\%$	(ohms)	11.00	64.00	11.00	64.00
Inductance per phase, Typ	(mH)	7.80	40.00	15.00	72.00
Rated current per phase *	(amps)	0.45	0.19	0.45	0.19
Holding torque, min *	(oz-in / mNm)	3.5 / 25		4.0 / 28	
Step angle *	(degrees)	$7.5 \pm 0.5^\circ$			
Steps per revolution *		48			
Detent torque, max	(oz-in / mNm)	0.60 / 4.2			
Thermal resistance	( $^\circ\text{C} / \text{watt}$ )	N.A.			
Rotor moment of inertia	(oz-in-s <sup>2</sup> / g-cm <sup>2</sup> )	0.0219 / 4			
<b>Ambient temperature range</b>					
Operating	( $^\circ\text{C}$ )	-20 ~ +40			
Storage	( $^\circ\text{C}$ )	-40 ~ +85			
<b>Bearing type</b>					
Sintered Bronze Sleeve					
Insulation resisance at 500vdc	(vac)	100 megohms			
Dielectric withstanding voltage	(lbs / g)	650 for 2 seconds			
<b>Weight</b>					
.1938 / 88					
<b>Shaft load ratings, max at 1500 rpm</b>					
Radial	(lbs / kg)	.055 / .025			
Axial	(lbs / kg)	.055 / .025			
<b>Leadwires</b>					
AWG 26, UL 1430					
<b>Temperature class, max</b>					
B(130 $^\circ\text{C}$ )					
<b>RoHS</b>					
Compliant					

All motor data values at 25 $^\circ\text{C}$  unless otherwise specified

\* Energise at rated current, 2 phase on