



42DBL-L

DIMENSIONS: MILLIMETERS
INCHES

Electrical Data	42DBLXXC1B-L Bipolar	42DBLXXC2B-L Bipolar	42DBLXXC1U-L Unipolar	42DBLXXC2U-L Unipolar	
1 Operating Voltage	5	12	5	12	VDC
2 Resistance per Phase, ± 10%	5.0	28.8	5.0	28.8	Ohms
3 Inductance per Phase, typ	5.5	39.3	3.7	15.0	mH
4 Rated Current per Phase *	1.00	0.42	1.00	0.42	A
Coil independent parameters	XX				
5 Max. Holding Force	@ .001" (0.0254mm)	102.9 (370)		100 (360)	N (oz)
	@ .002" (0.0508mm)	83.4 (300)		72.3 (260)	N (oz)
	@ .004" (0.1016mm)	55.6 (200)		50 (180)	N (oz)
6 Min. Holding Force (Unenergized)	@ .001" (0.0254mm)		111.2 (400)		N (oz)
	@ .002" (0.0508mm)		83.4 (300)		N (oz)
	@ .004" (0.1016mm)		19.5 (70)		N (oz)
7 Maximum travel	@ .001" (0.0254mm)		76.2 (3)		mm (in)
	@ .002" (0.0508mm)		76.2 (3)		mm (in)
	@ .004" (0.1016mm)		76.2 (3)		mm (in)
8 Step Angle			7.5 ± .5		Degree
9 Steps per Revolution			48		
10 Ambient Temperature Range (operating)			-20 to +70 (-4 to +158)		°C (°F)
11 Maximum Coil Temperature			130 (266)		°C (°F)
12 Bearing Type			Ball Bearing		
13 Insulation Resistance at 500 VDC			20		Mohms
14 Dielectric Withstanding Voltage			650 for 2 seconds		VAC
15 Weight			156 (5.51)		g (oz)
16 Leadwire			AWG 26, UL 1430		

All Motor Data Values at 20°C Unless Otherwise Specified

* Energize at Rated Current, 2 Phase On

