



DIMENSIONS: MILLIMETERS
INCHES

42DBL-K

Electrical Data		42DBLXXC1B-K Bipolar	42DBLXXC2B-K Bipolar	42DBLXXC1U-K Unipolar	42DBLXXC2U-K 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)		24.1 (0.95)			mm (in)
	@ .002" (0.0508mm)		24.1 (0.95)			mm (in)
	@ .004" (0.1016mm)		24.1 (0.95)			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

