



35DBM-K

| Electrical Data                          |                    | 35DBMXXB1B-K<br>Bipolar | 35DBMXXB2B-K<br>Bipolar | 35DBMXXB1U-K<br>Unipolar | 35DBMXXB2U-K<br>Unipolar |         |
|--|--------------------|-------------------------|-------------------------|--------------------------|--------------------------|---------|
| 1 Operating Voltage                      |                    | 5                       | 12                      | 5                        | 12                       | VDC     |
| 2 Resistance per Phase, ± 10%            |                    | 10.0                    | 58.0                    | 10.0                     | 58.0                     | Ohms    |
| 3 Inductance per Phase, typ              |                    | 11.2                    | 60.0                    | 5.2                      | 30.0                     | mH      |
| 4 Rated Current per Phase *              |                    | 0.50                    | 0.21                    | 0.50                     | 0.21                     | A       |
| <b>Coil independent parameters</b>       |                    | <b>XX</b>               |                         |                          |                          |         |
| 5 Max. Holding Force                     | @ .001" (0.0254mm) | 28.9 (103.9)            |                         | 20.9 (75)                |                          | N (oz)  |
|  | @ .002" (0.0508mm) | 23.6 (84.9)             |                         | 15.3 (55)                |                          | N (oz)  |
|  | @ .003" (0.0762mm) | 13.3 (47.8)             |                         | 8.3 (30)                 |                          | N (oz)  |
| 6 Min. Holding Force (Unenergized)       | @ .001" (0.0254mm) |                         | 11.1 (40)               |                          |                          | N (oz)  |
|  | @ .002" (0.0508mm) |                         | 2.8 (10)                |                          |                          | N (oz)  |
|  | @ .003" (0.0762mm) |                         | 1.4 (5)                 |                          |                          | N (oz)  |
| 7 Maximum travel                         | @ .001" (0.0254mm) |                         | 17.9 (0.71)             |                          |                          | mm (in) |
|  | @ .002" (0.0508mm) |                         | 17.9 (0.71)             |                          |                          | mm (in) |
|  | @ .003" (0.0762mm) |                         | 17.9 (0.71)             |                          |                          | 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                                |                    |                         | 85.2 (3)                |                          |                          | g (oz)  |
| 16 Leadwire                              |                    |                         | AWG 26, UL 1429         |                          |                          |         |

All Motor Data Values at 20°C Unless Otherwise Specified

\* Energize at Rated Current, 2 Phase On

