35DBM-L (Non-Captive) SERIES

HIGHEST FORCE PER

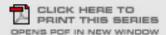




GENERAL SPECIFICATIONS

Max Pull-in Rate* (Steps/Sec)	425
Power Consumption	5 Watts
Insulation Resistance	20ΜΩ
Bearings	Radial Ball
Weight	3 oz (85.2gm)
Operating Temperature Range	-20°C ~ 70°C
Storage Temperature Range	-40°C ~ 85°C

* Measured with 2 phases energized



The specifications in this publication are believed to be accurate and reliable. However, it is the responsibility of the product user to determine the suitability of Portescap products for a specific application. While defective products will be replaced without charge if promptly returned, no liability is assumed beyond such replacement.

Portescap Danaher Motion motors will not be CE marked where the Low Voltage Directive, the Electro-Magnetic Compatibility or other appropriate EU directives are not applicable - this is an EU legal requirement.

TECHNICAL SPECIFICATIONS

Part Number	DC Operating Voltage	Linear Travel Per Step*	Maximum Travel	Maximum Force*	Minimum Holding Force (Unenergized)
35DBM10B1U-L	5	.001" (0.0254mm)	2.5" (63.5mm)	75 oz (20.9N)	40 oz (11.1N)
35DBM10B2U-L	12	.001" (0.0254mm)	2.5" (63.5mm)	75 oz (20.9N)	40 oz (11.1N)
35DBM20B1U-L	5	.002" (0.0508mm)	2.5" (63.5mm)	55 oz (15.3N)	10 oz (2.8N)
35DBM20B2U-L	12	.002" (0.0508mm)	2.5" (63.5mm)	55 oz (15.3N)	10 oz (2.8N)
35DBM30B1U-L	5	.003" (0.0762mm)	2.5" (63.5mm)	30 oz (8.3N)	5 oz (1.4N)
35DBM30B2U-L	12	.003" (0.0762mm)	2.5" (63.5mm)	30 oz (8.3N)	5 oz (1.4N)

^{*} Measured with 2 phases energized

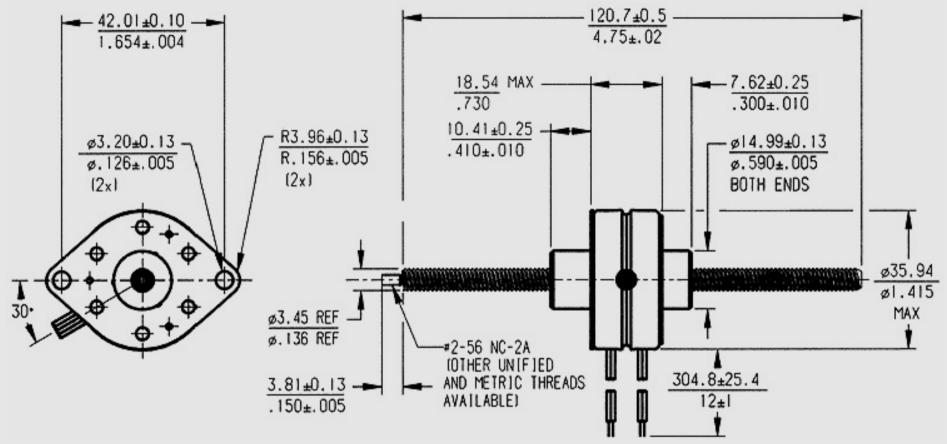
Coil Type	Unipolar		
Coil Data	1U (5vdc)	2U (12vdc)	
Resistance Per Phase	10Ω	58Ω	
Inductance Per Phase	5.2mH Ref	30mH Ref	

TECHNICAL SPECIFICATIONS

Part Number	DC Operating Voltage	Linear Travel Per Step*	Maximum Travel	Maximum Force*	Minimum Holding Force (Unenergized)
35DBM10B1B-L	5	.001" (0.0254mm)	2.5" (63.5mm)	103.9 oz (28.9N)	40 oz (11.1N)
35DBM10B2B-L	12	.001" (0.0254mm)	2.5" (63.5mm)	103.9 oz (28.9N)	40 oz (11.1N)
35DBM20B1B-L	5	.002" (0.0508mm)	2.5" (63.5mm)	84.9 oz (23.6N)	10 oz (2.8N)
35DBM20B2B-L	12	.002" (0.0508mm)	2.5" (63.5mm)	84.9 oz (23.6N)	10 oz (2.8N)
35DBM30B1B-L	5	.003" (0.0762mm)	2.5" (63.5mm)	47.8 oz (13.3N)	5 oz (1.4N)
35DBM30B2B-L	12	.003" (0.0762mm)	2.5" (63.5mm)	47.8 oz (13.3N)	5 oz (1.4N)

^{*} Measured with 2 phases energized

Coil Type	Bipolar		
Coil Data	1B (5vdc)	2B (12vdc)	
Resistance Per Phase	10Ω	58Ω	
Inductance Per Phase	11.2mH Ref	60mH Ref	

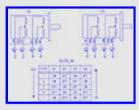


Notes:

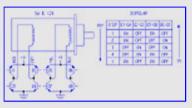
- 1. Not recommended to use at the fully retracted and extended positions.
- 2. Shaft axial backlash: 0.15/0.006 MAX

WIRING DIAGRAM

CLICK ON A THUMBNAIL TO MAGNIFY



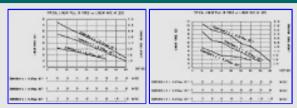
35DBM-L SERIES, Unipolar



35DBM-L SERIES, Bipolar

MOTOR DYNAMICS

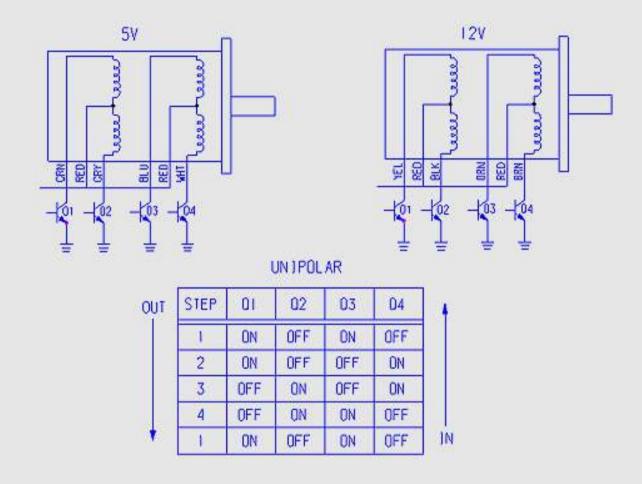
CLICK ON A THUMBNAIL TO MAGNIFY



35DBM-L Unipolar 35DBM-L Bipolar

Note: Linear force is against opposite end of axial thrust spring

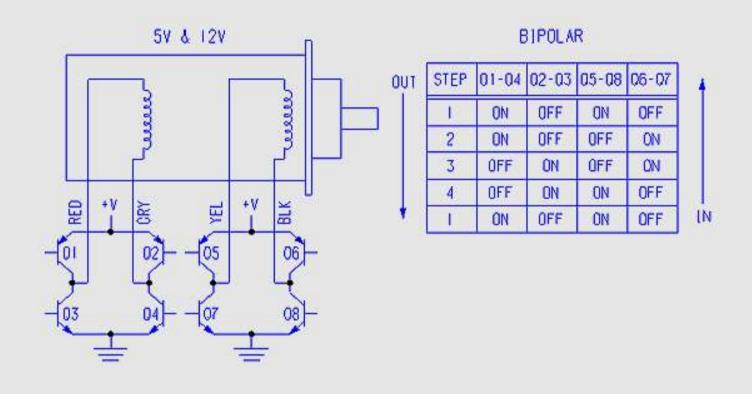




WIRING DIAGRAM

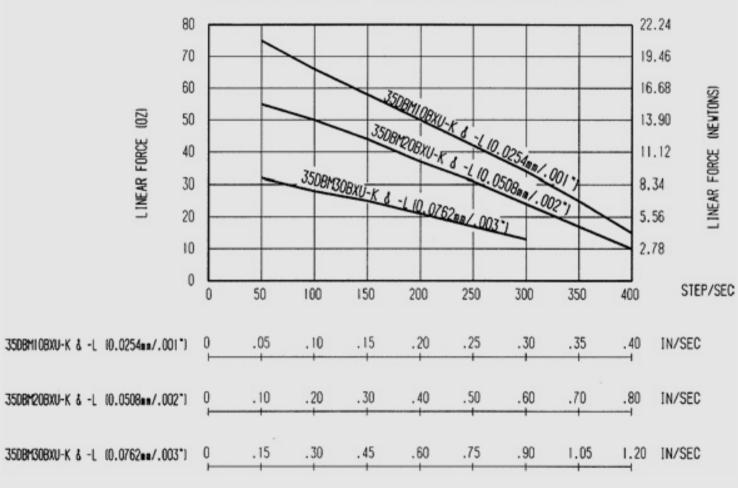


DIAGRAM INDEX



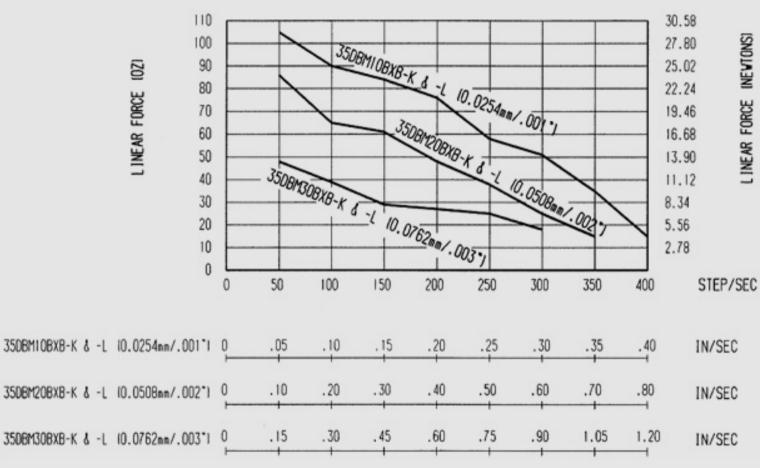






Note: Linear force is against opposite end of axial thrust spring

TYPICAL LINEAR PULL-IN FORCE vs LINEAR RATE AT 20°C



Note: Linear force is against opposite end of axial thrust spring