

26M SERIES

SMALL BUT POWERFUL

**GENERAL SPECIFICATIONS**

Step Angle	7.5° / 15°
Step Accuracy	± 0.5° / ± 1°
Operating Temperature	100°C Max
Ambient Temperature Range	-20°C ~ +70°C
Insulation Resistance at 500Vdc	100MΩ
Dielectric Withstanding Voltage	650 ± 50 VRMS, 2 sec

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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

	UNIPOLAR			
Part Number	26M024B1U	26M024B2U	26M048B1U	26M048B2U
DC Operating Voltage	5	12	5	12
Resistance per Winding (ohms)	19.6	110	19.6	110
Inductance per Winding (mH)	4.1	29.9	5.3	36.5
Holding Torque* (mNm/oz-in)	6.3 / 0.9	6.3 / 0.9	9.2/ 1.3	9.2/ 1.3
Rotor Moment of Inertia (g.m ²)	1.1×10^{-4}	1.1×10^{-4}	1.1×10^{-4}	1.1×10^{-4}
Detent Torque (mNm/oz-in)	1.34 / 0.19	1.34 / 0.19	1.34 / 0.19	1.34 / 0.19
Step Angle	15°	15°	7.5°	7.5°
Step Angle Tolerance*	± 1°	± 1°	± 0.5°	± 0.5°
Steps per Revolution*	24	24	48	48
Max. Operating Temperature	100°C	100°C	100°C	100°C
Ambient Temperature Range				
Operating	-20°C to 70°C	-20°C to 70°C	-20°C to 70°C	-20°C to 70°C
Storage	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
Bearing Type	Sintered bronze sleeve	Sintered bronze sleeve	Sintered bronze sleeve	Sintered bronze sleeve
Insulation Resistance at 500Vdc	100 megohms	100 megohms	100 megohms	100 megohms
Dielectric Withstanding Voltage	650 ± 50 VRMS, 2 sec	650 ± 50 VRMS, 2 sec	650 ± 50 VRMS, 2 sec	650 ± 50 VRMS, 2 sec
Weight (g/oz)	34 / 1.2	34 / 1.2	34 / 1.2	34 / 1.2
Leadwires	28 AWG, UL Style 1429	28 AWG, UL Style 1429	28 AWG, UL Style 1429	28 AWG, UL Style 1429

* Measured with 2 phases energized

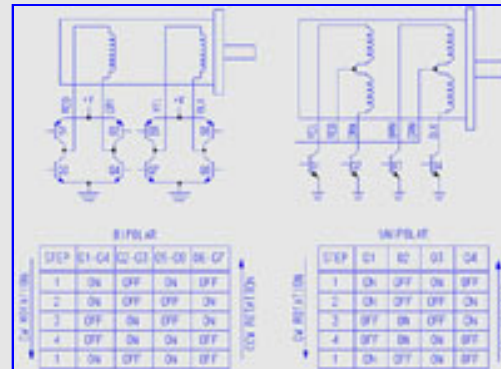
TECHNICAL SPECIFICATIONS

	BIPOLAR			
Part Number	26M024B1B	26M024B2B	26M048B1B	26M048B2B
DC Operating Voltage	5	12	5	12
Resistance per Winding (ohms)	19.8	108	19.8	108
Inductance per Winding (mH)	7.7	52.4	13	60.7
Holding Torque* (mNm/oz-in)	7.8 / 1.1	7.8 / 1.1	10.6 / 1.5	10.6 / 1.5
Rotor Moment of Inertia (g.m ²)	1.1 x 10 ⁻⁴	1.1 x 10 ⁻⁴	1.1 x 10 ⁻⁴	1.1 x 10 ⁻⁴
Detent Torque (mNm/oz-in)	1.34 / 0.19	1.34 / 0.19	1.34 / 0.19	1.34 / 0.19
Step Angle	15°	15°	7.5°	7.5°
Step Angle Tolerance*	± 1°	± 1°	± 0.5°	± 0.5°
Steps per Revolution*	24	24	48	48
Max. Operating Temperature	100°C	100°C	100°C	100°C
Ambient Temperature Range				
Operating	-20°C to 70°C	-20°C to 70°C	-20°C to 70°C	-20°C to 70°C
Storage	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
Bearing Type	Sintered bronze sleeve	Sintered bronze sleeve	Sintered bronze sleeve	Sintered bronze sleeve
Insulation Resistance at 500Vdc	100 megohms	100 megohms	100 megohms	100 megohms
Dielectric Withstanding Voltage	650 ± 50 VRMS, 2 sec	650 ± 50 VRMS, 2 sec	650 ± 50 VRMS, 2 sec	650 ± 50 VRMS, 2 sec
Weight (g/oz)	34 / 1.2	34 / 1.2	34 / 1.2	34 / 1.2
Leadwires	28 AWG, UL Style 1429	28 AWG, UL Style 1429	28 AWG, UL Style 1429	28 AWG, UL Style 1429

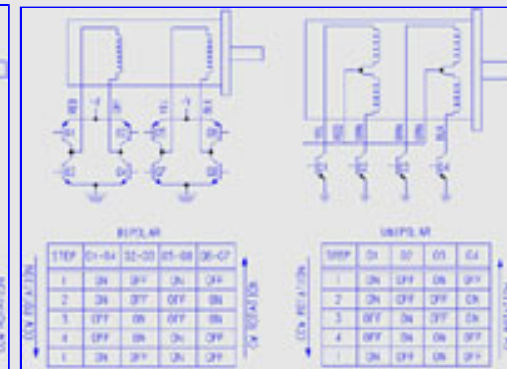
* Measured with 2 phases energized

WIRING DIAGRAM

CLICK ON A THUMBNAIL TO MAGNIFY



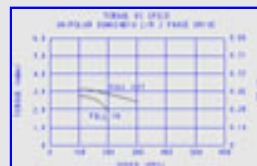
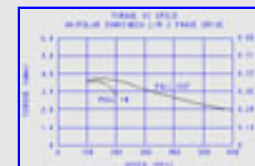
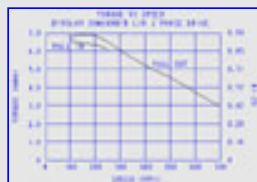
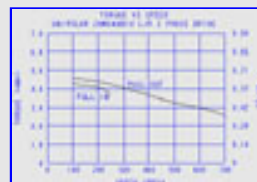
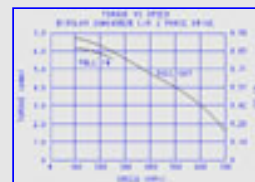
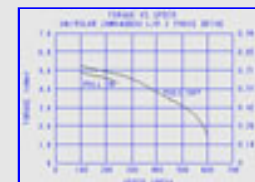
26M024B SERIES



26M048B SERIES

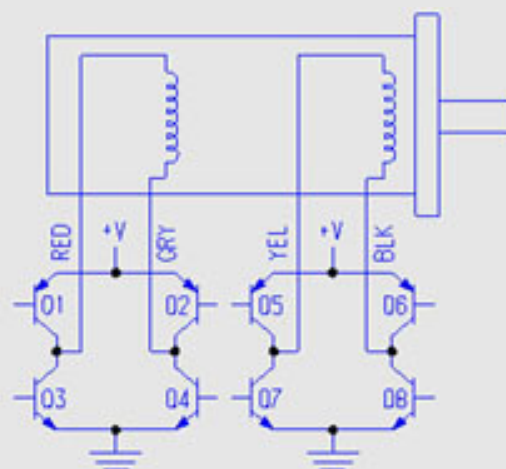
MOTOR DYNAMICS

CLICK ON A THUMBNAIL TO MAGNIFY

26M024B1B, Bipolar,
L/R Drive26M024B1U, Unipolar,
L/R Drive26M024B2B, Bipolar,
L/R Drive26M024B2U, Unipolar,
L/R Drive26M048B1B, Bipolar,
L/R Drive26M048B1U, Unipolar,
L/R Drive26M048B2B, Bipolar,
L/R Drive26M048B2U, Unipolar,
L/R Drive26M024B1B, Bipolar,
Chopper Drive26M048B1B, Bipolar,
Chopper Drive

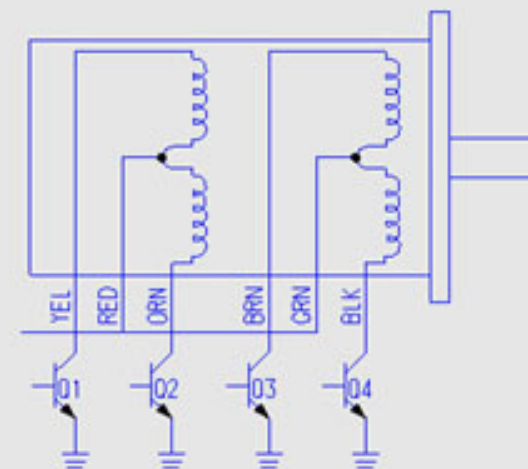
WIRING DIAGRAM

DIAGRAM INDEX



BIPOLAR

	STEP	01-04	02-03	05-08	06-07
CW ROTATION ↓	1	ON	OFF	ON	OFF
	2	ON	OFF	OFF	ON
	3	OFF	ON	OFF	ON
	4	OFF	ON	ON	OFF
↑ CCW ROTATION	1	ON	OFF	ON	OFF
	2	ON	OFF	OFF	ON



UNIPOLAR

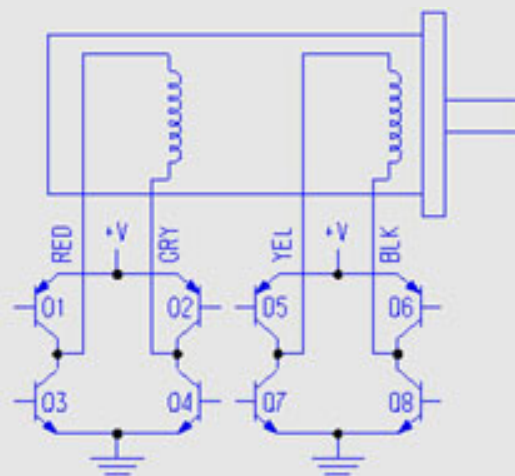
	STEP	01	02	03	04
CW ROTATION ↓	1	ON	OFF	ON	OFF
	2	ON	OFF	OFF	ON
	3	OFF	ON	OFF	ON
	4	OFF	ON	ON	OFF
↑ CCW ROTATION	1	ON	OFF	ON	OFF
	2	ON	OFF	OFF	ON

26M024B SERIES

WIRING DIAGRAM

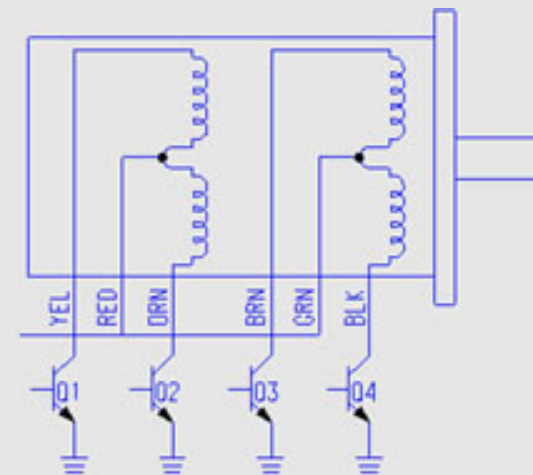


DIAGRAM INDEX



BIPOLAR

	STEP	01-04	02-03	05-08	06-07
CCW ROTATION ↓	1	ON	OFF	ON	OFF
	2	ON	OFF	OFF	ON
	3	OFF	ON	OFF	ON
	4	OFF	ON	ON	OFF
↑ CW ROTATION	1	ON	OFF	ON	OFF
	2	ON	OFF	OFF	ON

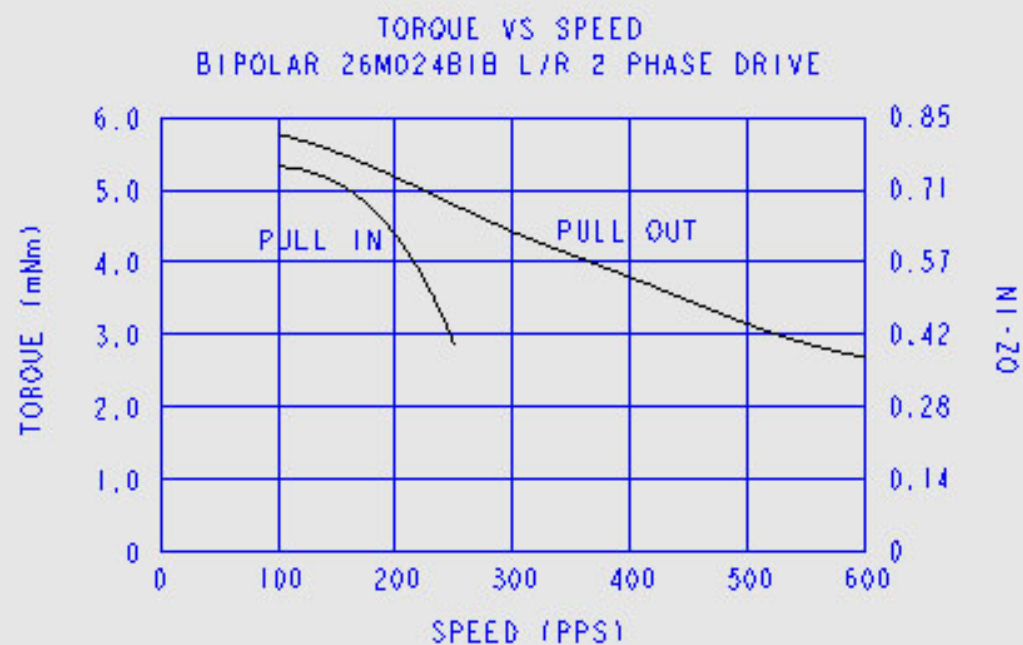


UNIPOLAR

	STEP	01	02	03	04
CCW ROTATION ↓	1	ON	OFF	ON	OFF
	2	ON	OFF	OFF	ON
	3	OFF	ON	OFF	ON
	4	OFF	ON	ON	OFF
↑ CW ROTATION	1	ON	OFF	ON	OFF
	2	ON	OFF	OFF	ON

26M048B SERIES

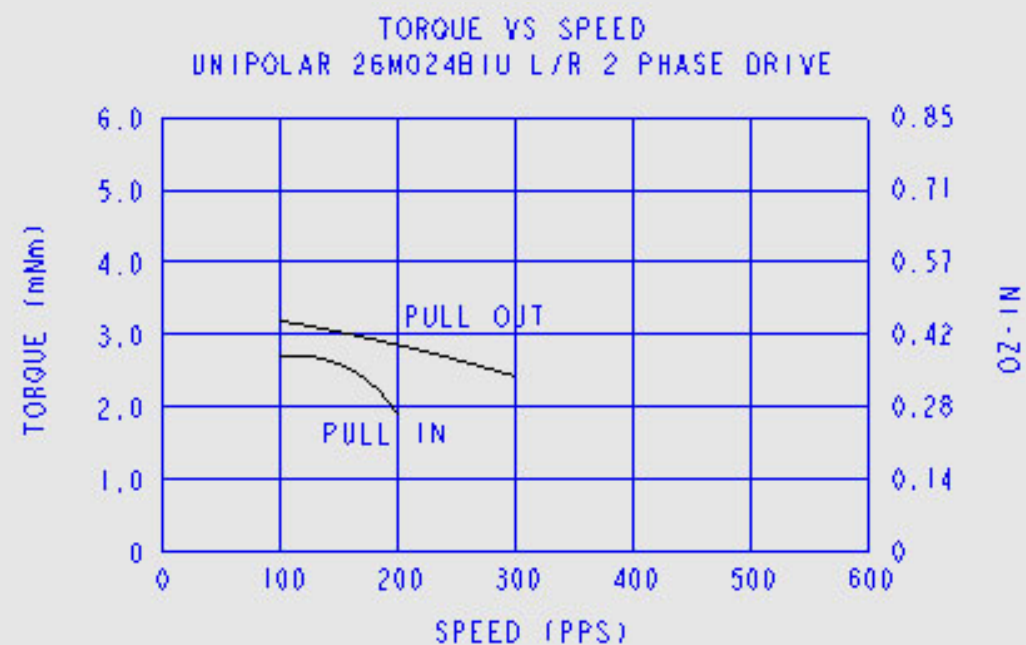
MOTOR DYNAMICS

[CHART INDEX](#)

MOTOR DYNAMICS



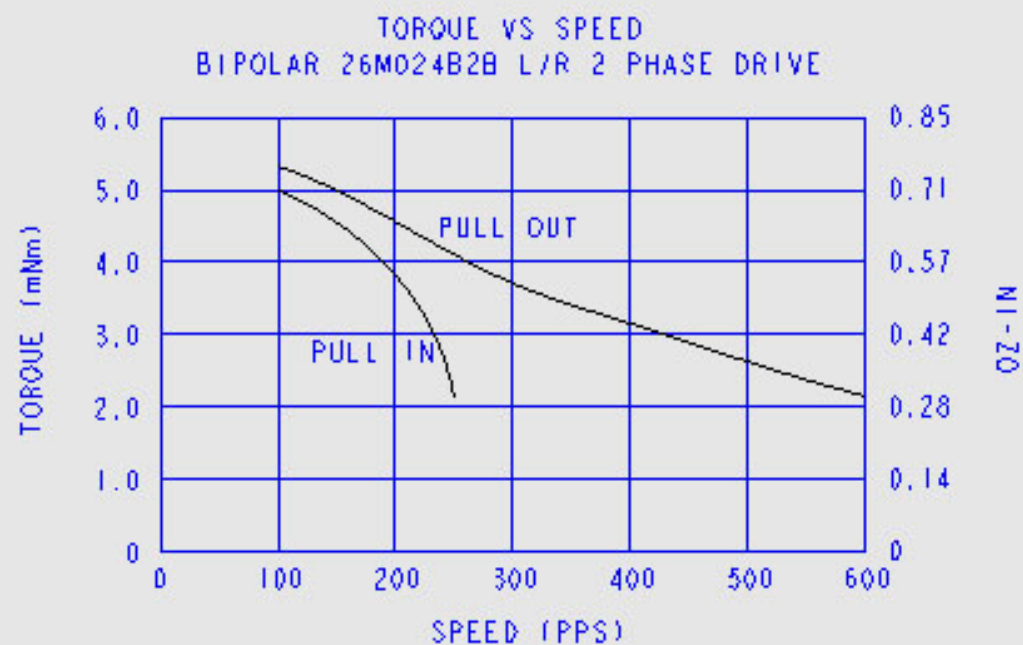
CHART INDEX



MOTOR DYNAMICS



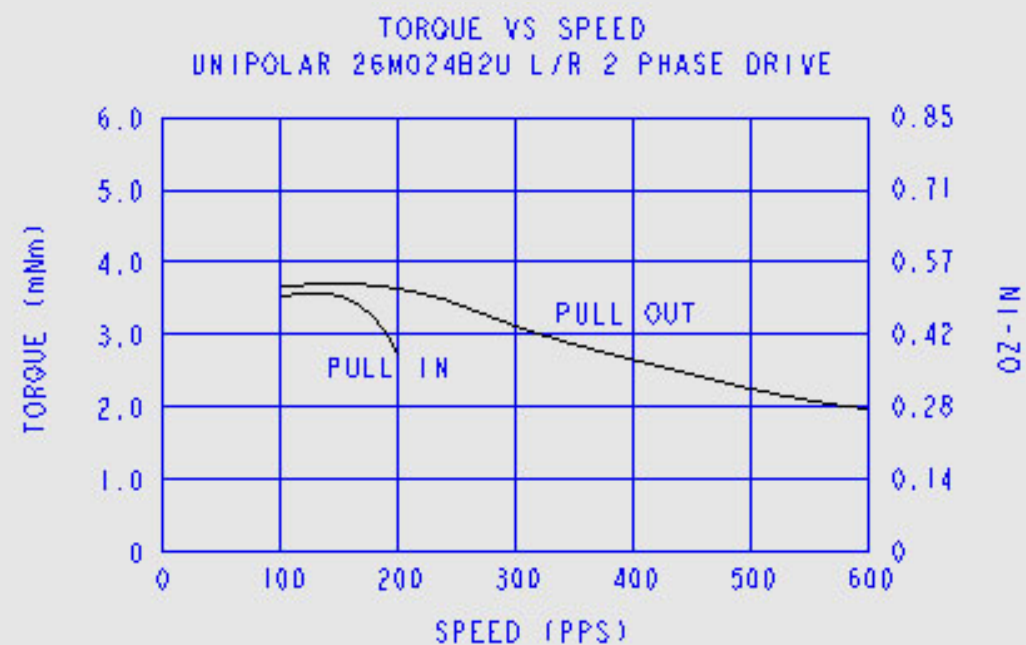
CHART INDEX



MOTOR DYNAMICS



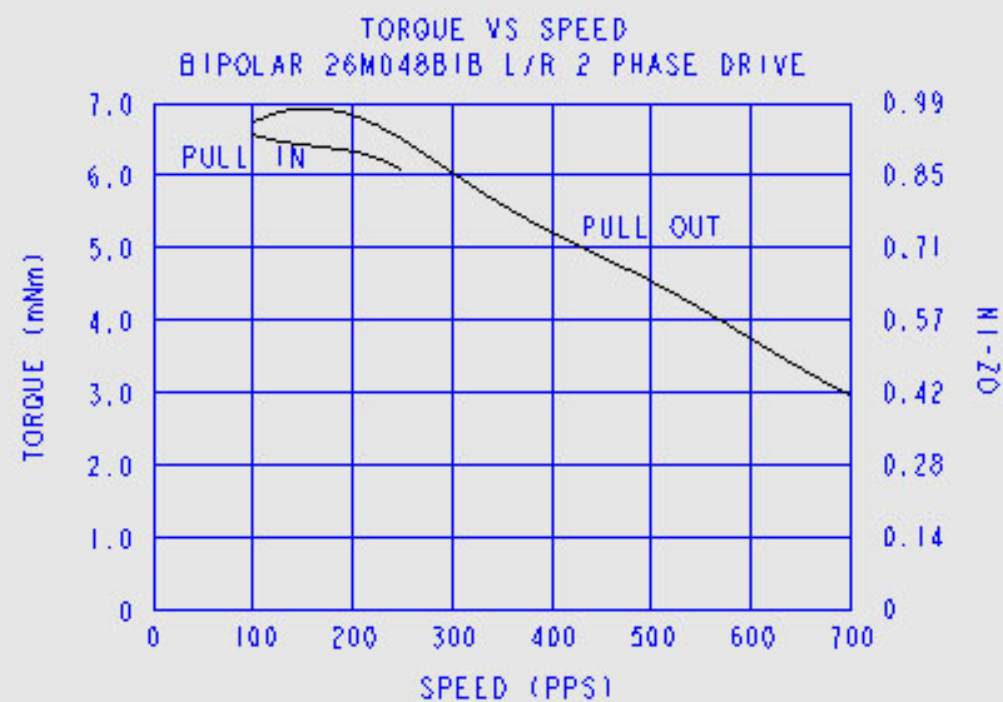
CHART INDEX



MOTOR DYNAMICS



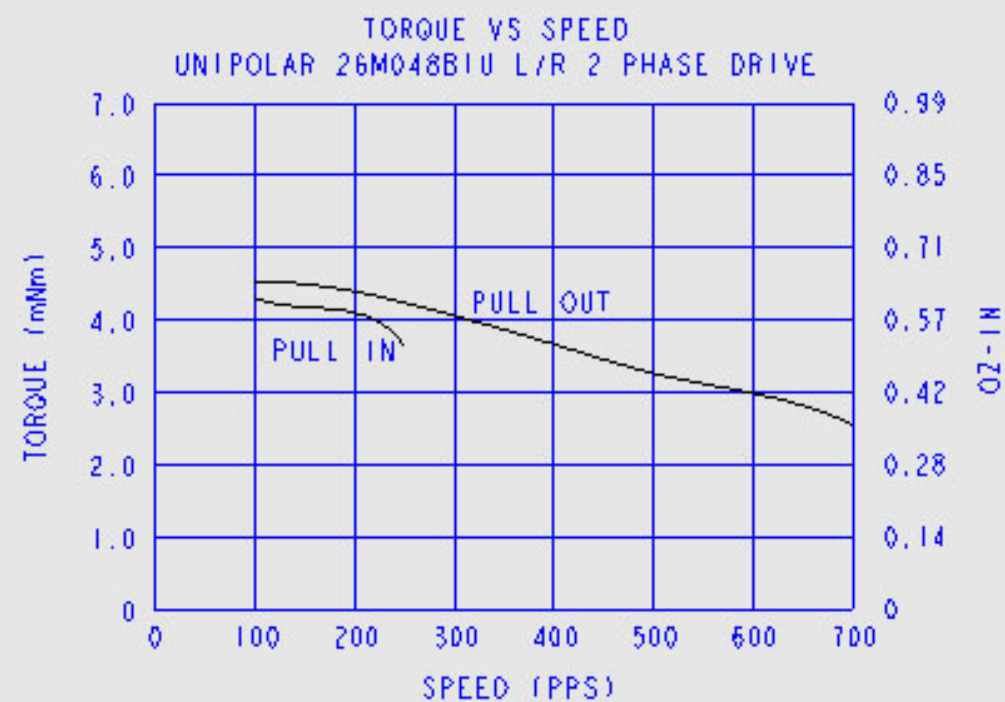
CHART INDEX



MOTOR DYNAMICS



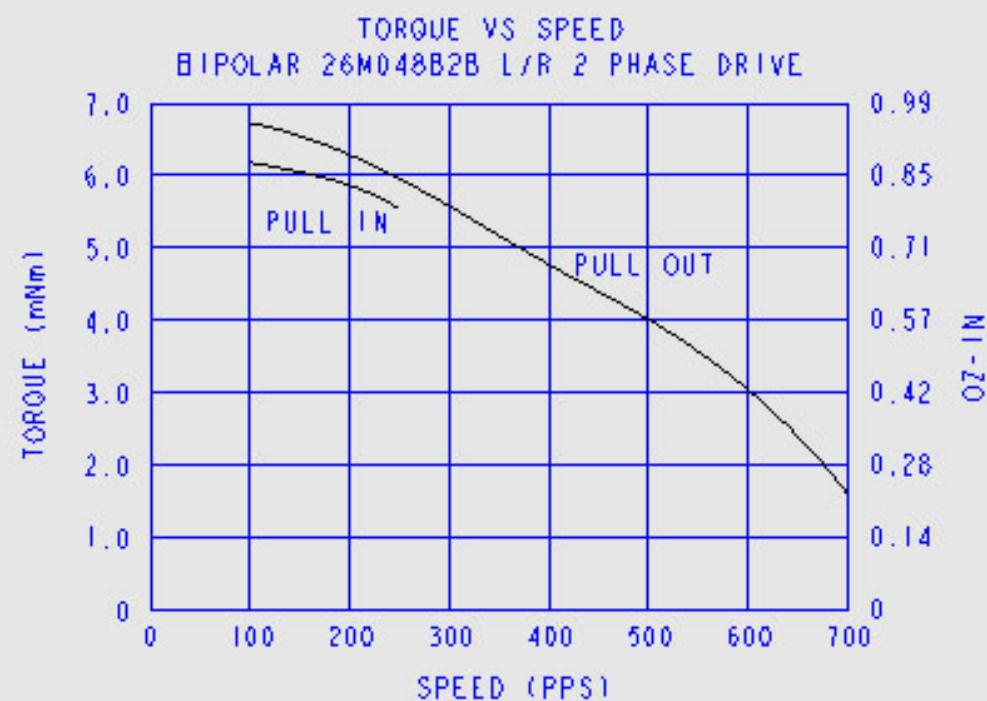
CHART INDEX



MOTOR DYNAMICS



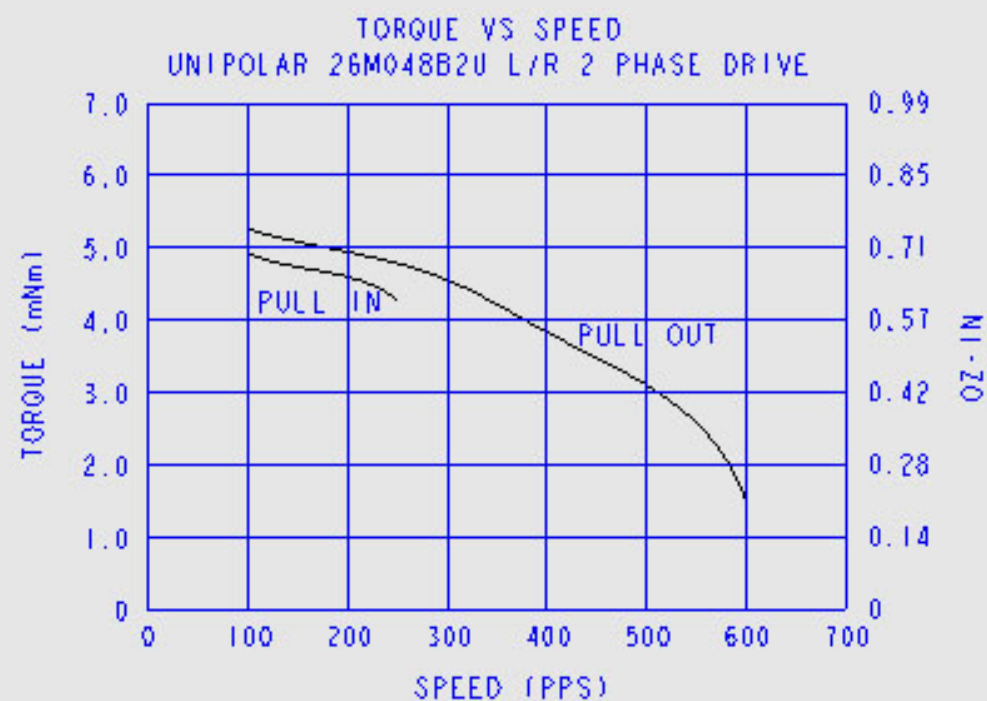
CHART INDEX



MOTOR DYNAMICS



CHART INDEX



MOTOR DYNAMICS

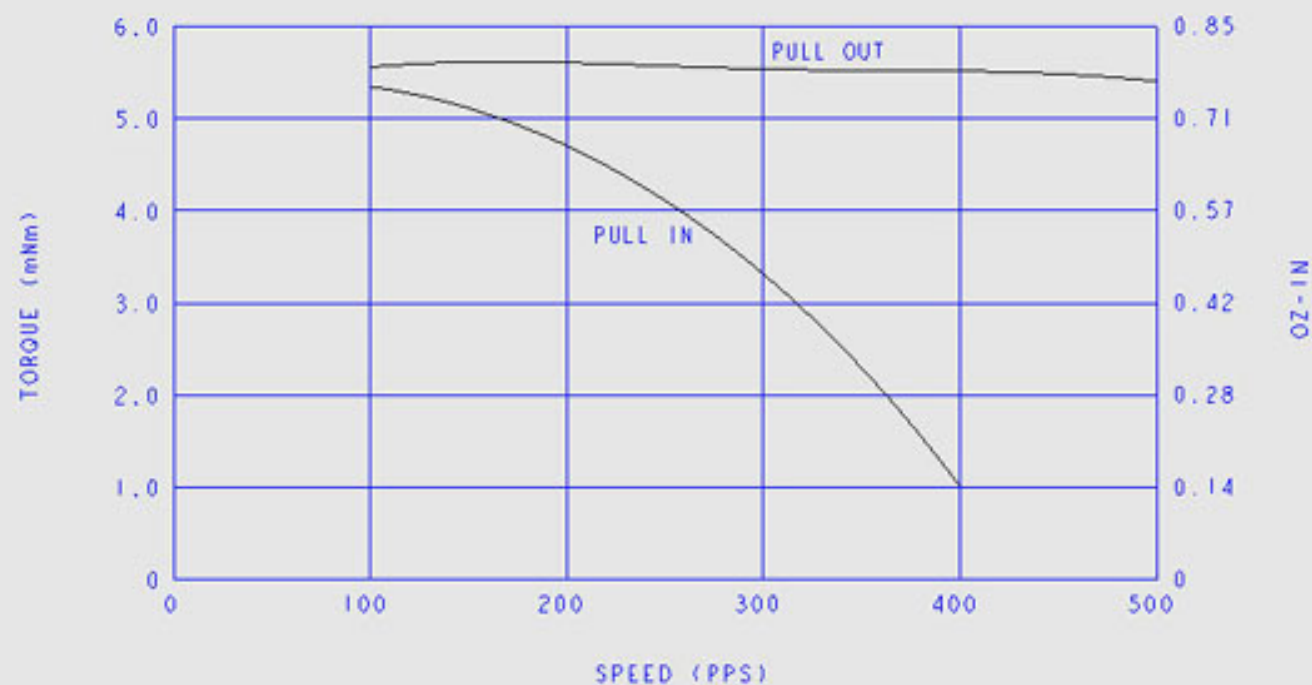


CHART INDEX



TORQUE VS SPEED

BIPOLAR 26M024B1B CHOPPER DRIVE
@ 36V, 250mA/Ø, 2Ø



MOTOR DYNAMICS



CHART INDEX

TORQUE VS SPEED

BIPOLAR 26M048BIB CHOPPER DRIVE
@ 36V, 250mA/Ø, 2Ø

