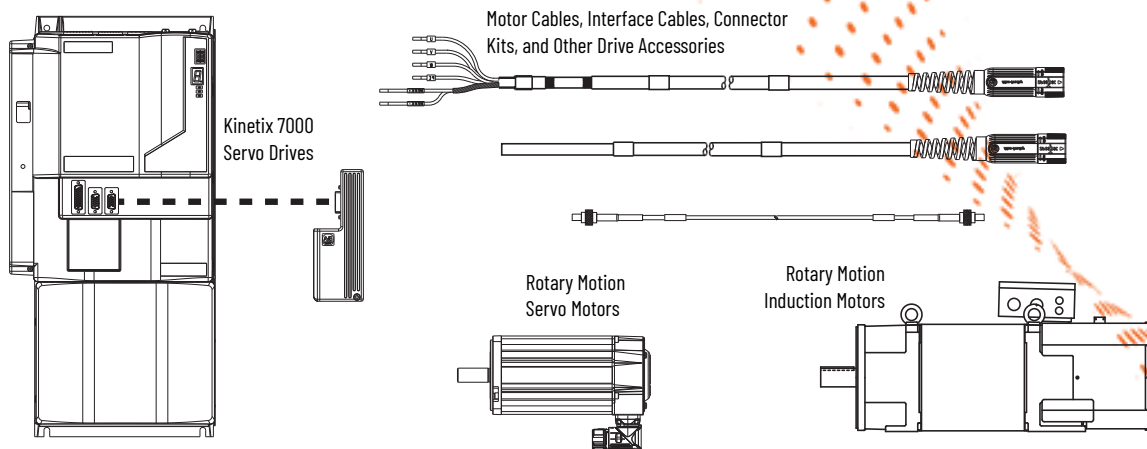


Kinetix 7000 Drive Systems

Catalog Numbers 2099-BM06-S, 2099-BM07-S, 2099-BM08-S, 2099-BM09-S, 2099-BM10-S, 2099-BM11-S, 2099-BM12-S



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Introduction

This publication assumes that the drive family for your application is Kinetix® 7000 and that you have already determined your motor catalog number. To revisit those decisions, refer to the Kinetix Motion Control Selection Guide, publication [KNX-SG001](#), or Motion Analyzer software.

The purpose of this publication is to assist you in identifying the drive system components and accessory items you'll need for your Kinetix 7000 drive/motor combination. Diagrams in this publication illustrate how many of the common drive accessory items are used in a typical system, but refer to the Kinetix Motion Accessories Technical Data, publication [KNX-TD004](#), for detailed accessory descriptions and specifications.

Also provided are drive/motor or drive/actuator system combinations that include the following:

- Motor/cable combinations table
- Drive/motor performance specification table
- Torque/speed curves with each motor matched to the drive with optimum performance

Performance specification data and curves reflect nominal system performance of a typical system with motor/drive at rated ambient temperature and line voltage. For additional information on ambients, line conditions, and valid combinations not shown in this publication, refer to Motion Analyzer software.

IMPORTANT These system combinations do not include all possible motor/drive combinations. Refer to Motion Analyzer software to verify compatibility. Download is available at <http://www.ab.com/motion/software/analyzer.html>.

Determine What You Need

For each Kinetix 7000 drive system, you need to know the drive and motor catalog numbers to determine the motor power and feedback cable catalog numbers. Interface cables and connector kits are also required. Optional equipment includes the line interface module (LIM), AC line filter, 8720MC regenerative power supply (RPS), and others. Example diagrams of the required equipment listed on this page are shown on [page 3](#).

Kinetix 7000 Drive Modules

Drive Cat. No. ⁽¹⁾	Input Voltage	Output Power (continuous)		Output Current (continuous)
2099-BM06-S	400V series, Three-phase	22 kW	30 Hp	40 A rms
2099-BM07-S		30 kW	40 Hp	52 A rms
2099-BM08-S		37 kW	50 Hp	65 A rms
2099-BM09-S		56 kW	75 Hp	96 A rms
2099-BM10-S		75 kW	100 Hp	125 A rms
2099-BM11-S		112 kW	150 Hp	180 A rms
2099-BM12-S		149 kW	200 Hp	248 A rms

⁽¹⁾ The -S designator indicates safe-off safety functionality.

Refer to the Kinetix Servo Drives Technical Data, publication [KNX-TD003](#), for detailed descriptions and additional specifications for the Kinetix 7000 drive family.

Required Drive Accessories

Drive Accessory	Description	Cat. No.
24V power supply	24V DC for control power and motor brakes	1606-XLxxx
Low-profile connector kits (required for flying-lead cables)	Motor feedback connections	2094-K6CK-D15M
	Auxiliary feedback connections	2094-K7CK-KENDAT ⁽¹⁾
	I/O connections	2094-K6CK-D15F
Sercos fiber-optic cables (required as needed)	Plastic, in-cabinet duty	2090-SCEPx-x
	Plastic, on-machine duty	2090-SCNPx-x
	Plastic, outdoor and conduit duty	2090-SCVPx-x
	Glass, outdoor and conduit duty	2090-SCVGx-x
Motor power and feedback cables	Refer to the specific drive/motor combination for the motor cables required for your system.	

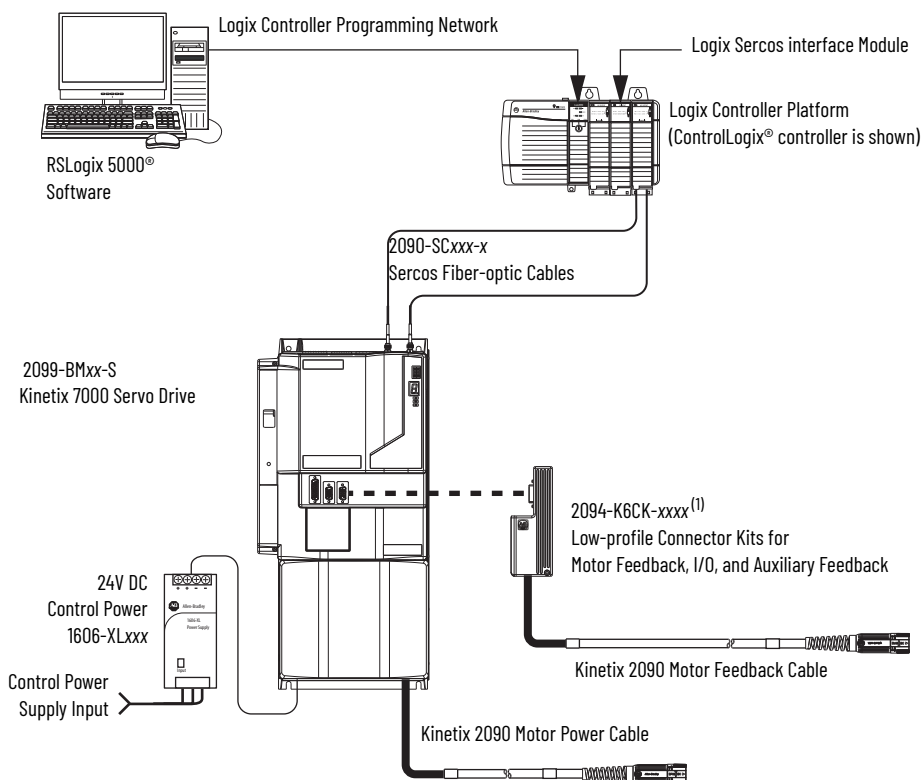
⁽¹⁾ Applies to only Kinetix RDB servo motors with EnDat encoder.

Refer to the Kinetix Motion Accessories Technical Data, publication [KNX-TD004](#), for detailed descriptions and specifications of these servo drive accessories.

Kinetix 7000 System Examples

These system examples illustrate how the required drive modules and accessories are used in typical systems.

Kinetix 7000 System Example (Sercos interface)



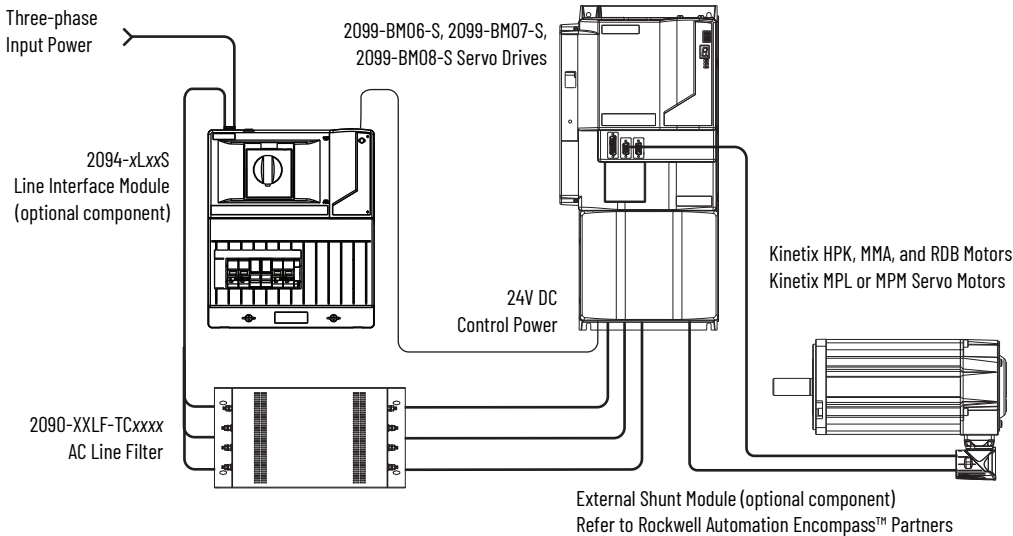
⁽¹⁾ Kinetix MMA and RDB motors with EnDat encoders require the 2090-K7CK-KENDAT low-profile feedback module.

Optional Drive Accessories

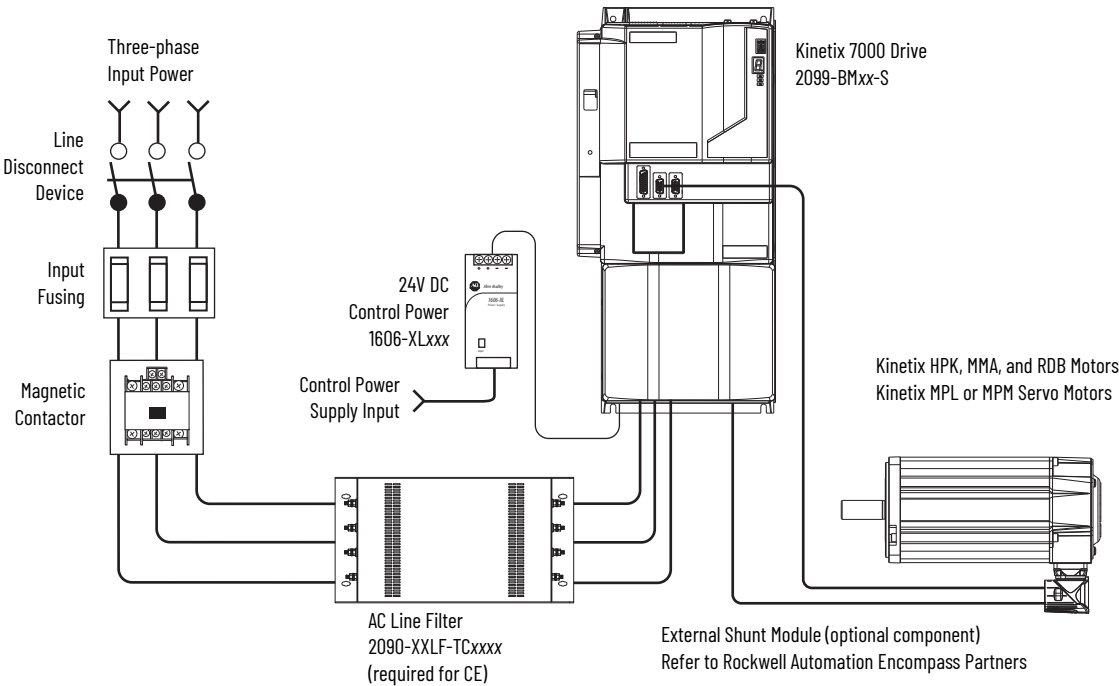
Drive Accessory	Description	Cat. No.
2094 line interface module	Replaces many of the common input power devices for your drive system (including 24V DC supply).	2094-BLxxS, 2094-BL02, 2094-XL75S-Cx
2090 AC line filters	AC line conditioning for EMC.	2090-XXLF-TCxxxx
Safety headers	Cascading safe-off connections from drive-to-drive.	2090-XNSM-x
Safety interface cables		1202-Cxx
External auxiliary encoders	Allen-Bradley® sine/cosine and incremental external encoders.	Bulletin 842A, 844D, 845H, and 845T
Connector set	Replacement connectors for safe-off (SO), general purpose I/O (GPIO), general purpose relay (GPR), and control power (CP) connectors.	2099-K7KCK-1
Control board kit	Control board assembly kit. Replacement control board.	2099-K7KCB-1
DC-DC converter kit	DC-DC converter cassette kit. Replacement DC-DC converter.	2099-K7KCP-1
8720MC regenerative power supply (RPS)	Power components required in regenerative applications.	8720MC-RPSxxx
8720MC line reactors		8720MC-LRxx-xxxx

Motor-end cable connector kits, for use when building your own cables, and panel-mounted breakout components are also available. Refer to the Kinetix Motion Accessories Technical Data, publication [KNX-TD004](#), for detailed descriptions and specifications of these servo drive accessories.

Kinetix 7000 AC Input Power Example (with LIM module)



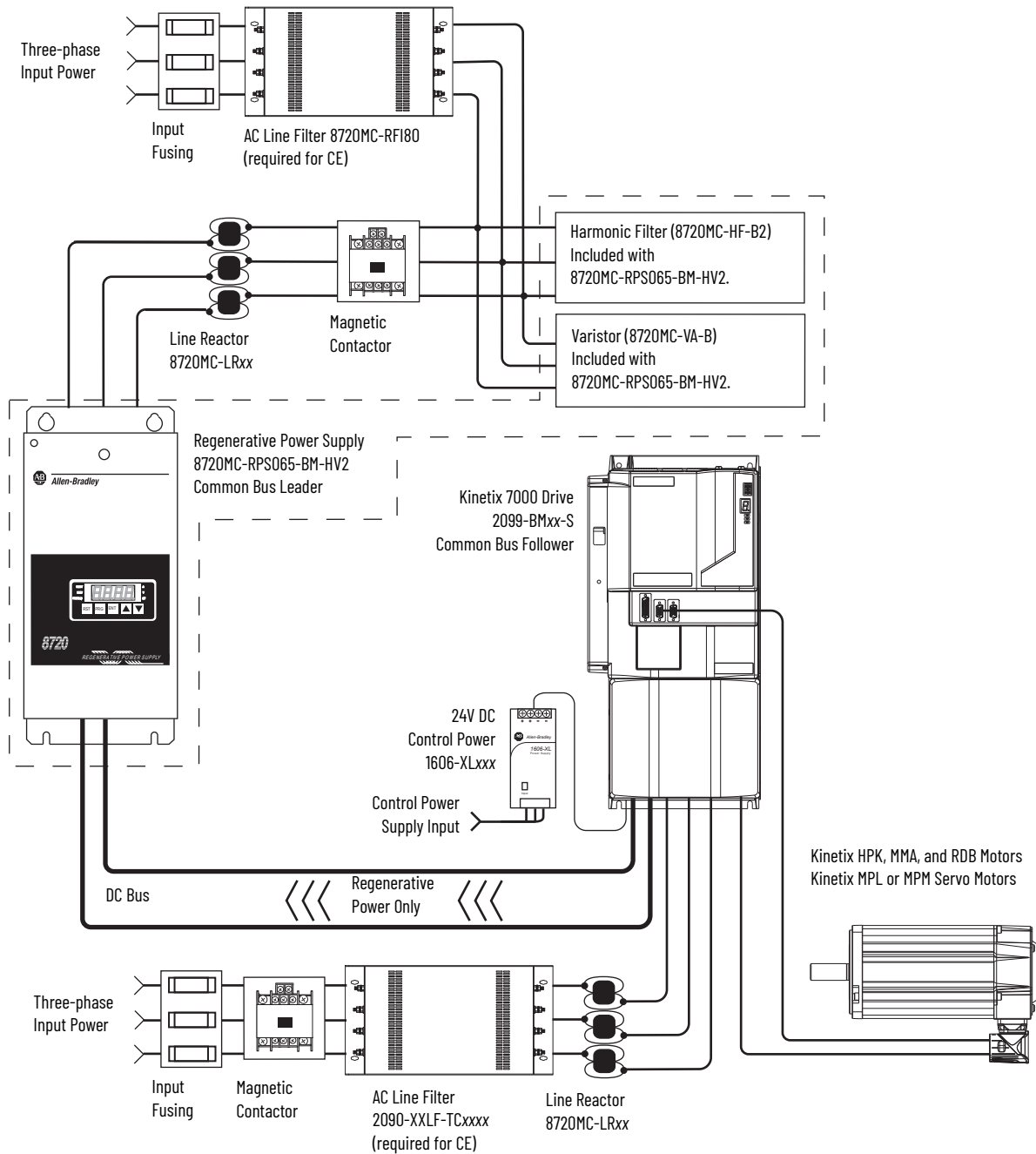
Kinetix 7000 AC Input Power Example (without LIM module)



In this example, the Kinetix 7000 drive system is shown with the 8720MC Regenerative Power Supply (RPS) in a regenerative braking configuration. Harmonic filter and varistor are available separately, but are included with the RPS unit when ordering catalog number 8720MC-RPS065-BM-HV2.

In this configuration, the Kinetix 7000 drive provides motoring power and the RPS unit provides regenerative power.

Kinetix 7000 AC Input Power Example (with regenerative power)

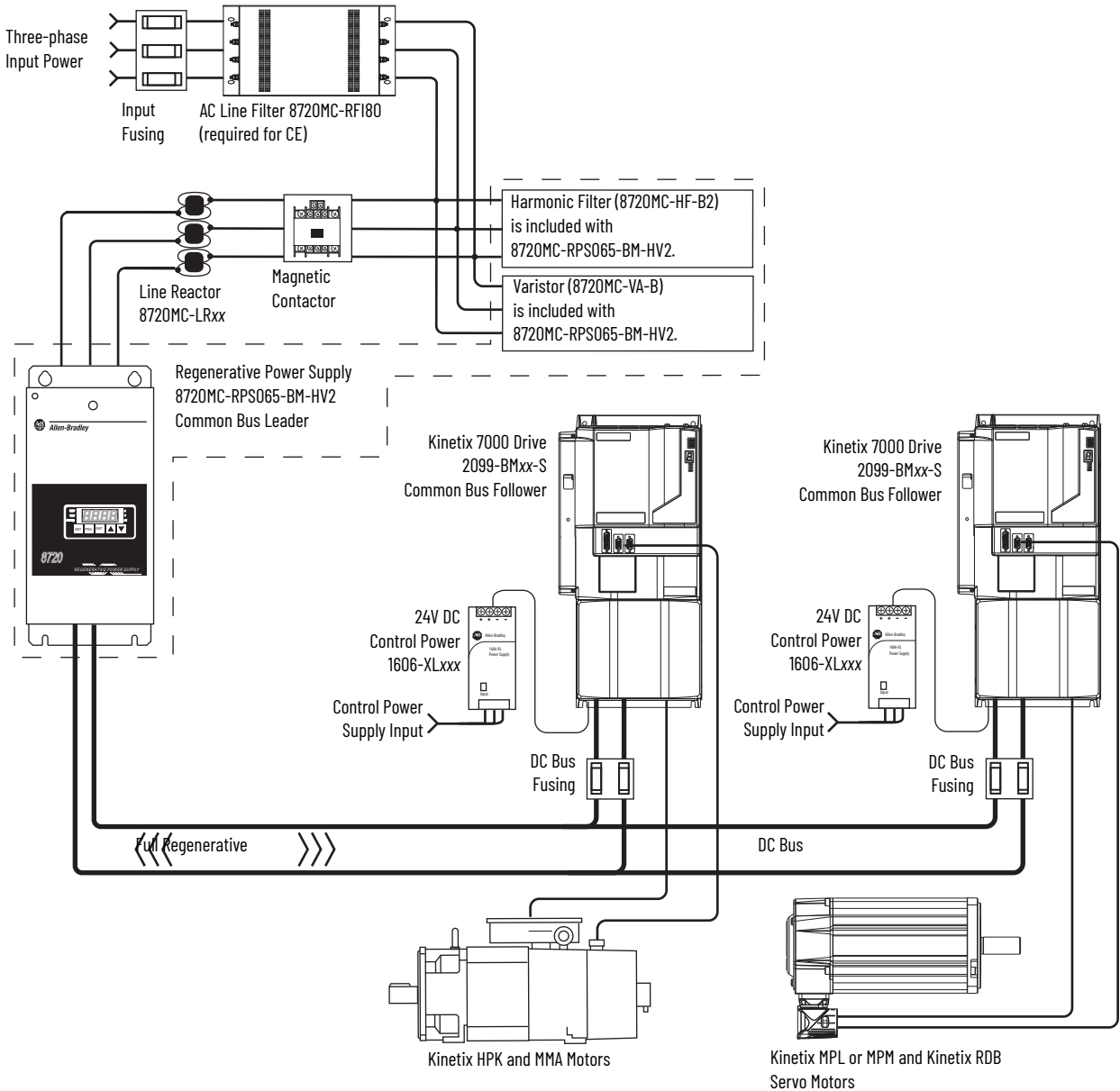


IMPORTANT Regenerative braking applications are limited to only one Kinetix 7000 common-bus follower drive.

In this example, the Kinetix 7000 drive system is shown with the 8720MC Regenerative Power Supply (RPS) in DC common-bus configuration with two follower Kinetix 7000 drives. Harmonic filter and varistor are available separately, but are included with the RPS unit when ordering catalog number 8720MC-RPS065-BM-HV2.

In this full-line regenerative example, the 8720MC-RPS065 unit provides motoring power and regenerative braking.

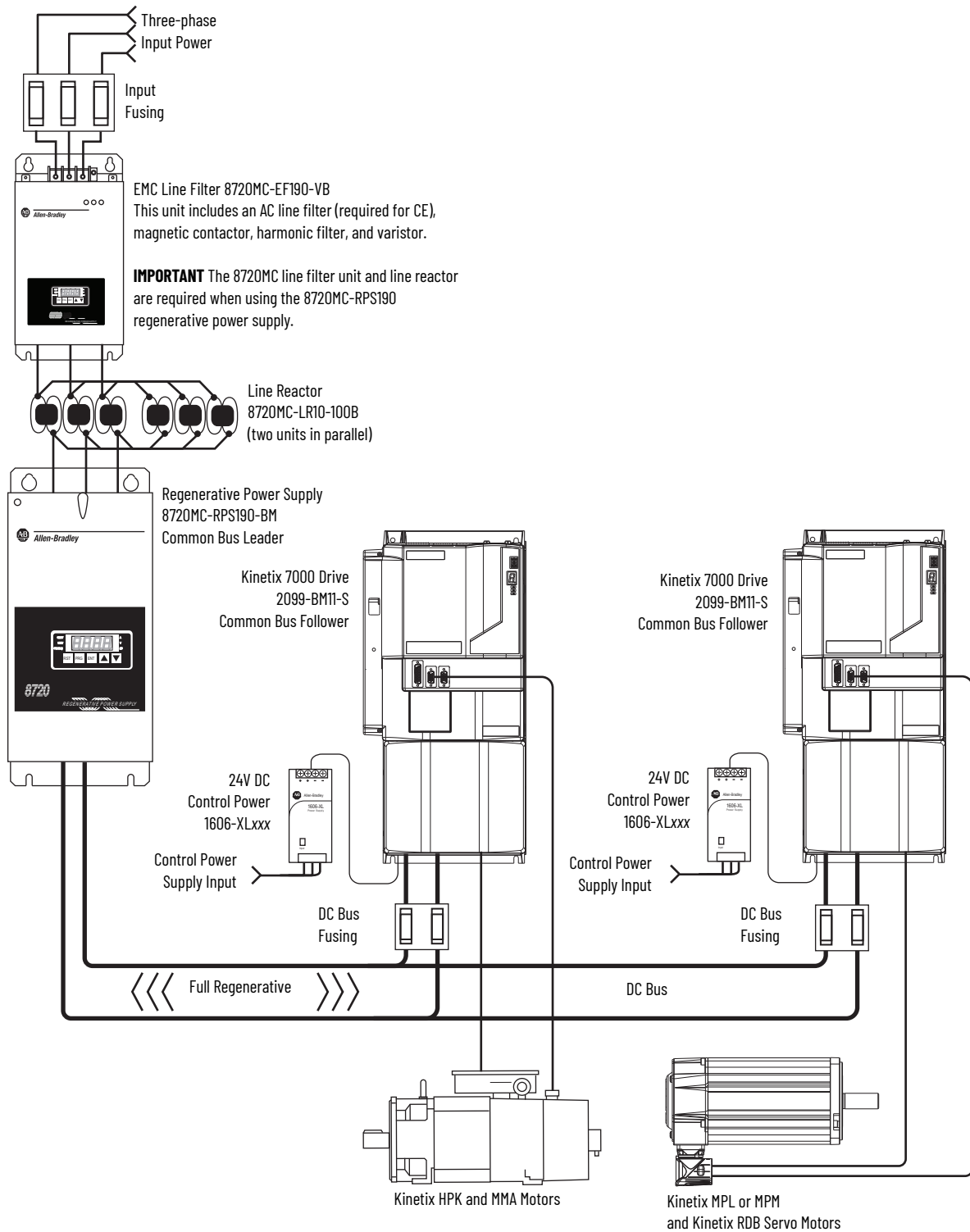
Kinetix 7000 DC Input Power Example (full-line regeneration)



In this example, the Kinetix 7000 drive system is shown with the 8720MC Regenerative Power Supply (RPS) in DC common-bus configuration with two follower 2099-BM11-S drives. Harmonic filter, varistor, and magnetic contactor are included when ordering the 8720MC-EF190-VB EMC line filter.

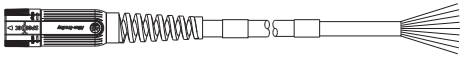
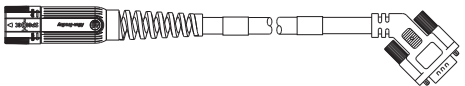
In this full-line regenerative example, the 8720MC-RPS190 unit provides motoring power and regenerative braking.

Kinetix 7000 DC Input Power Example (with full-line regeneration)

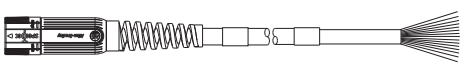
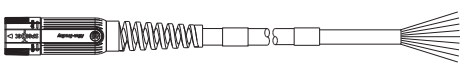
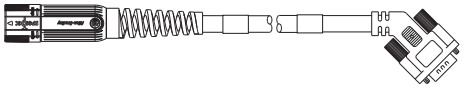
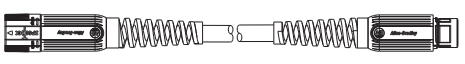


Kinetix 2090 Motor/Actuator Cables Overview

Feedback Cable Descriptions (standard, non-flex)

Standard Cable Cat. No.	Description	Cable Configuration		Motor/Actuator Connector
		Motor/Actuator End	Drive End	
2090-CFBM7DF-CEAAxx	<ul style="list-style-type: none"> Drive-end flying-leads (DF) High-resolution or resolver applications (CE) 			SpeedTec DIN (M7)
2090-CFBM7DD-CEAAxx	<ul style="list-style-type: none"> Drive-end 15-pin connector (DD) High-resolution or resolver applications (CE) 			

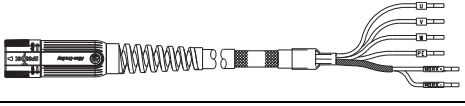
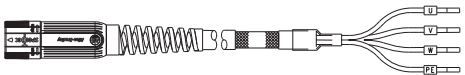
Feedback Cable Descriptions (continuous-flex)

Continuous-flex Cable Cat. No.	Description	Cable Configuration		Motor/Actuator Connector
		Motor/Actuator End	Drive End	
2090-CFBM7DF-CDAFxx	<ul style="list-style-type: none"> Drive-end flying-leads (DF) High-resolution or incremental applications (CD) 			SpeedTec DIN (M7)
2090-CFBM7DF-CEAFxx	<ul style="list-style-type: none"> Drive-end flying-leads (DF) High-resolution or resolver applications (CE) 			
2090-CFBM7DD-CEAFxx	<ul style="list-style-type: none"> Drive-end 15-pin connector (DD) High-resolution or resolver applications (CE) 			
2090-CFBM7E7-CDAFxx	<ul style="list-style-type: none"> Drive-end (male) connector, extension (E7)⁽¹⁾ Motor-end SpeedTec DIN cable plug (M7) 			
2090-CFBM7E7-CEAFxx				



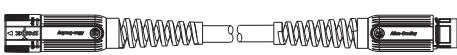
⁽¹⁾ SpeedTec DIN connector (motor end) and male connector for extending SpeedTec or threaded DIN cable.

IMPORTANT Feedback cables with the CE designation, for example 2090-CFBM7DF-CEAAxx, are intended for high-resolution encoder or resolver applications and have fewer conductors than feedback cables with the CD designation, for example 2090-CFBM7DF-CDAFxx, which are intended for high-resolution or incremental encoder applications.

Power/Brake Cable Descriptions (standard, non-flex)

Standard Cable Cat. No.	Description	Cable Configuration		Motor/Actuator Connector
		Motor/Actuator End	Drive End	
2090-CPBM7DF-xxAAxx	<ul style="list-style-type: none"> Drive-end flying-leads (DF) Power/brake wires (PB) 			SpeedTec DIN (M7)
2090-CPWM7DF-xxAAxx	<ul style="list-style-type: none"> Drive-end flying-leads (DF) Power wires only (PW) 			

Power/Brake Cable Descriptions (continuous-flex)

Continuous-flex Cable Cat. No.	Description	Cable Configuration	Motor/Actuator Connector
		Motor/Actuator End Drive End	
2090-CPBM7DF-xxAFxx	<ul style="list-style-type: none"> • Drive-end flying-leads (DF) • Power/brake wires (PB) 		SpeedTec DIN (M7)
2090-CPWM7DF-xxAFxx	<ul style="list-style-type: none"> • Drive-end flying-leads (DF) • Power wires only (PW) 		
2090-CPBM7E7-xxAFxx	<ul style="list-style-type: none"> • Drive-end (male) connector, extension (E7) ⁽¹⁾ • Motor-end SpeedTec DIN cable plug (M7) 		

⁽¹⁾ SpeedTec DIN connector (motor end) and male connector for extending SpeedTec or threaded DIN cable.

Kinetix 7000 (400V-class) Drives with Kinetix HPK Asynchronous Servo Motors

This section provides system combination information for the Kinetix 7000 (400V-class) drives when matched with Kinetix HPK motors. These motors are available with 460V and 400V windings. Included are motor power/brake and feedback cable catalog numbers, system performance specifications, and the optimum torque/speed curves.

Kinetix HPK Motor Cable Combinations (460V motors)

Motor Cat. No.	Motor Power Cable	Motor Feedback Cable ⁽¹⁾
HPK-B1307C and HPK-B1308C	Customer Supplied	2090-CFBM7DF-CEAAxx (standard, non-flex) 2090-CFBM7DF-CEAFxx (continuous-flex) Absolute High-resolution Feedback
HPK-B1307E and HPK-B1310C		
HPK-B1308E, HPK-B1609E, and HPK-B1613C		
HPK-B1611E and HPK-B1613E		
HPK-B1815C		
HPK-B2010C, HPK-B2010E		
HPK-B2212C, HPK-B2510C		

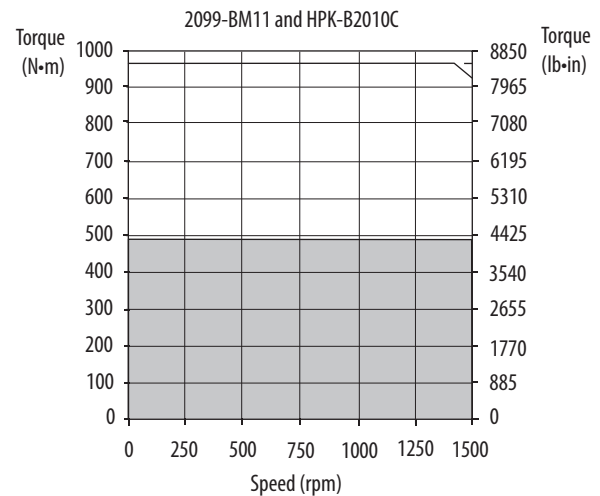
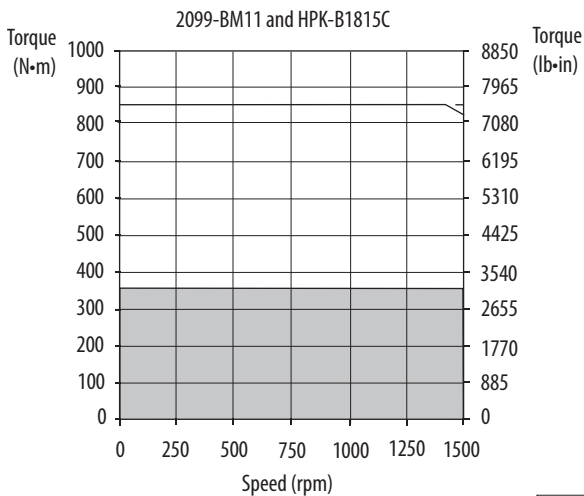
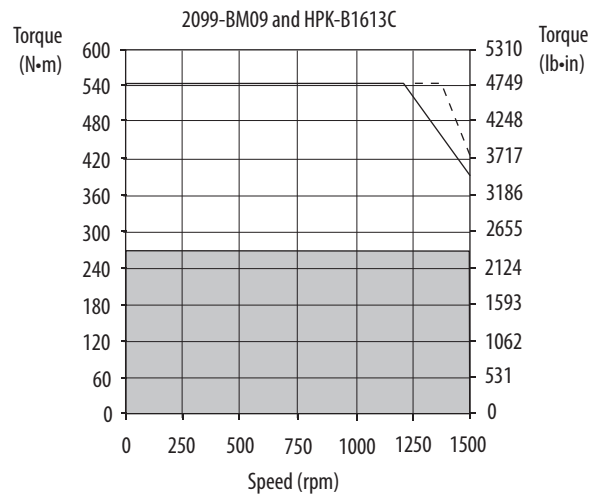
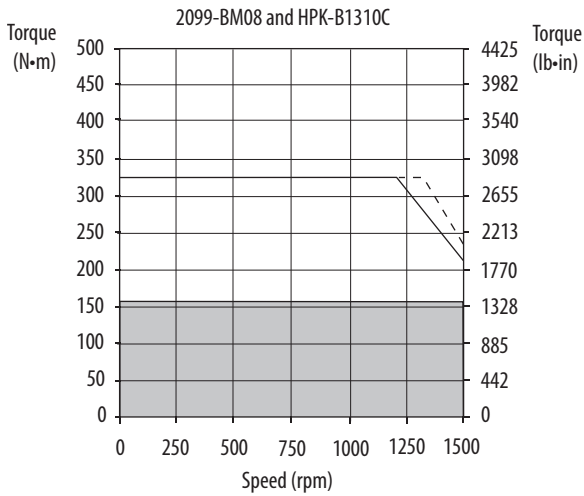
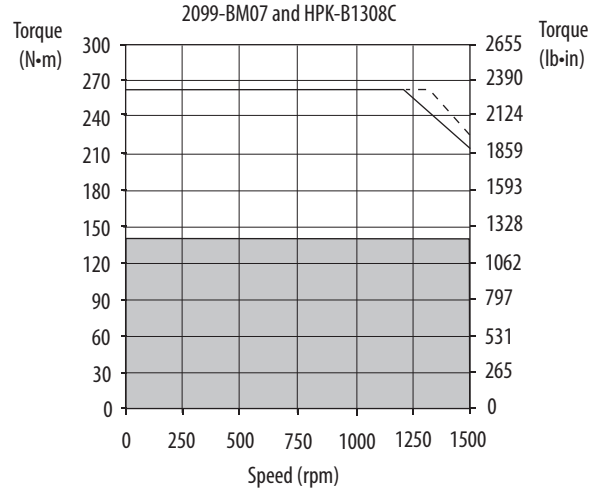
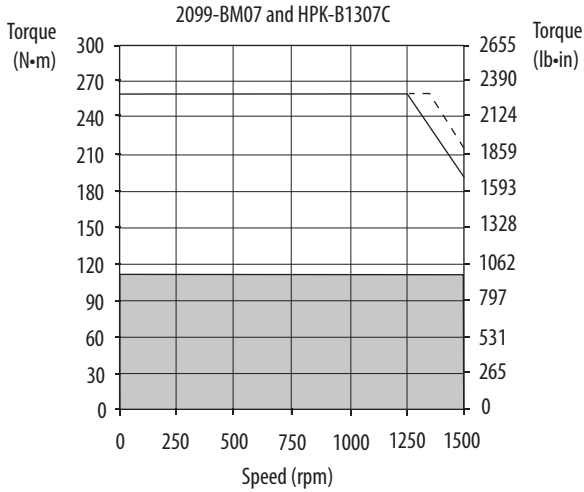
⁽¹⁾ Use low-profile connector kit (catalog number 2090-K6CK-D15M) on the drive end. Refer to Required Drive Accessories on [page 3](#). For cable configuration illustrations and feature descriptions, by catalog number, refer to Kinetix 2090 Motor/Actuator Cables Overview beginning on [page 9](#). Motor-end connector kits, and panel-mounted breakout components (drive end), are available for motor power/brake and feedback cables. Refer to Kinetix 2090 Motor/Actuator Cables Overview on [page 9](#). Cable length xx is in meters. Refer to the Kinetix Motion Accessories Technical Data, publication [KNX-TD004](#), for standard cable lengths.

Kinetix HPK (460V) Performance Specifications with Kinetix 7000 (400V-class) Drives

Rotary Motor	Speed, base rpm	System Continuous Stall Current A 0-pk	System Continuous Stall Torque N•m (lb•in)	System Peak Stall Current A 0-pk	System Peak Stall Torque N•m (lb•in)	Motor Rated Output kW (Hp)	Kinetix 7000 (400V-class) Drives
HPK-B1307C	1500	102.0	112 (991)	113.0	257 (2274)	17.1 (22.9)	2099-BM07-S
HPK-B1308C		59.6	141 (1248)	119.3	262 (2319)	21.6 (28.9)	2099-BM07-S
HPK-B1310C		64.9	155 (1372)	144.0	325 (2876)	23.8 (31.9)	2099-BM08-S
HPK-B1613C		109.8	271 (2398)	217.0	542 (4797)	41.7 (55.9)	2099-BM09-S
HPK-B1815C		153.7	360 (3186)	402.0	850 (7523)	55.9 (74.9)	2099-BM11-S
HPK-B2010C		196.4	482 (4266)	440.0	970 (8585)	75.0 (100.5)	2099-BM11-S
HPK-B2212C		278.0	714 (6319)	524.0	1356 (12,000)	112 (151)	2099-BM12-S
HPK-B2510C		351.0	865 (7656)	526.0	1216 (10,762)	136 (180)	2099-BM12-S
HPK-B1307E		3000	81.0	96.0 (849)	146.6	165 (1460)	29.8 (39.9)
HPK-B1308E	91.4		115 (1018)	190.3	230 (2035)	35.7 (47.8)	2099-BM09-S
HPK-B1609E	124.4		156 (1381)	217.0	270 (2390)	48.4 (64.8)	2099-BM09-S
HPK-B1611E	149.0		183 (1619)	338.4	400 (3540)	57.0 (76.4)	2099-BM11-S
HPK-B1613E	191.0		237 (2097)	440.0	459 (4062)	73.7 (98.8)	2099-BM11-S
HPK-B2010E	254.0		295 (2610)	440.0	500 (4425)	112.0 (150.0)	2099-BM11-S

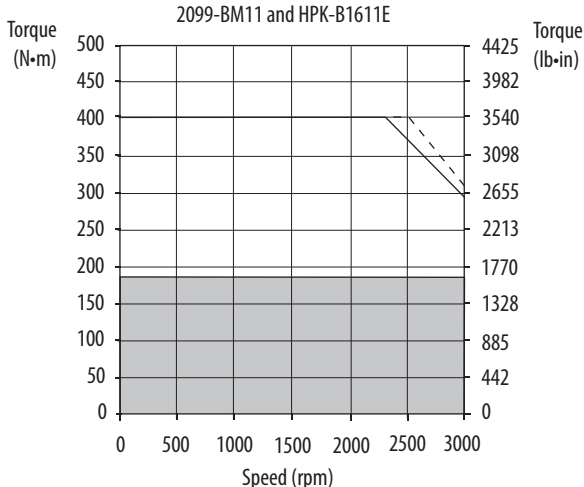
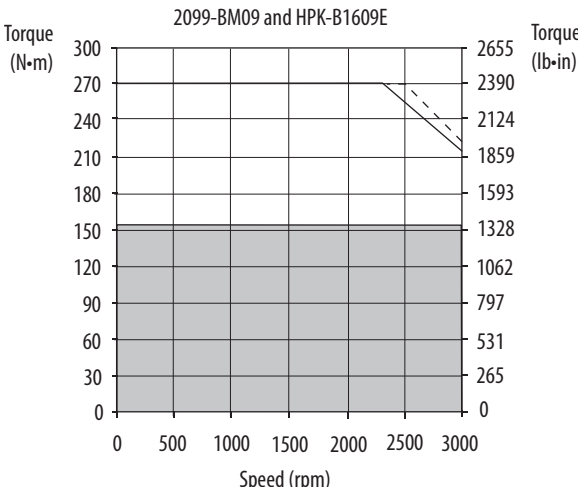
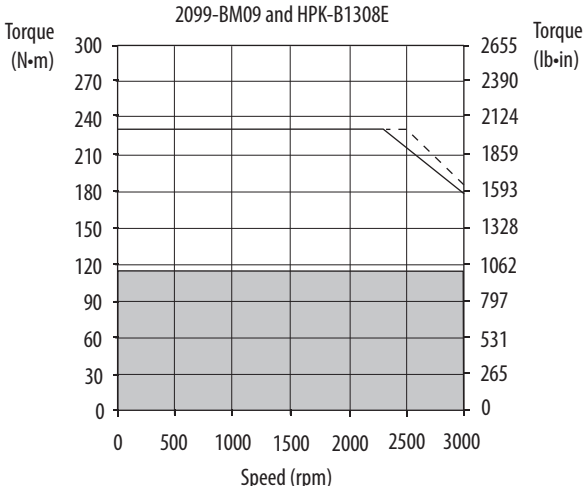
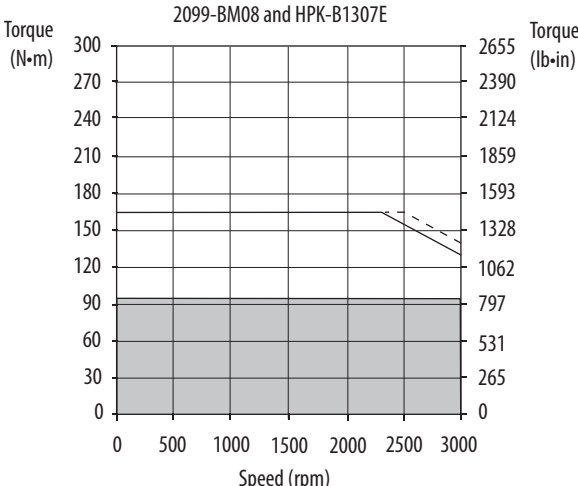
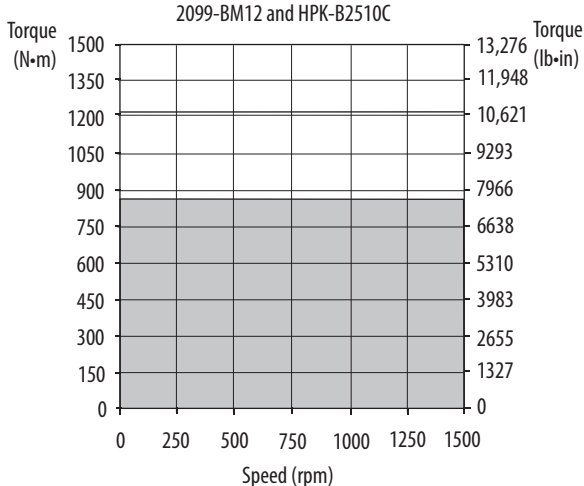
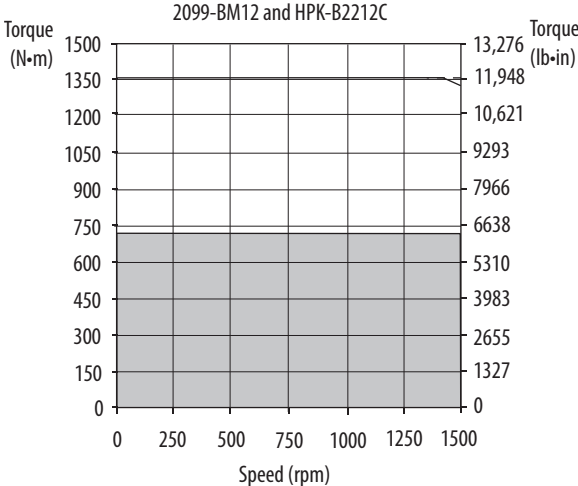
Performance specification data and curves reflect nominal system performance of a typical system with motor at 40 °C (104 °F) and drive at 50 °C (122 °F) ambient and rated line voltage. For additional information on ambient and line conditions, refer to Motion Analyzer software, version 4.7 or later.

Kinetix 7000 (400V-class) Drives/Kinetix HPK (460V) Motor Curves



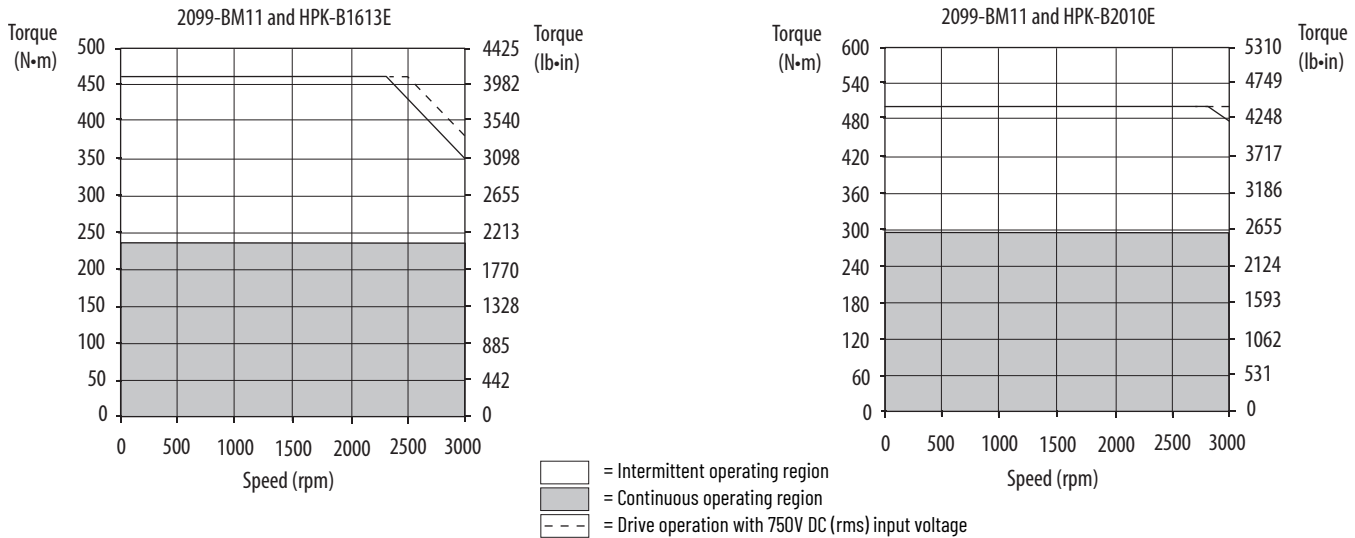
- = Intermittent operating region
- = Continuous operating region
- = Drive operation with 750V DC (rms) input voltage

Kinetix 7000 (400V-class) Drives/Kinetix HPK (460V) Motor Curves (continued)



- = Intermittent operating region
- = Continuous operating region
- = Drive operation with 750V DC (rms) input voltage

Kinetix 7000 (400V-class) Drives/Kinetix HPK (460V) Motor Curves (continued)



Kinetix HPK Motor Cable Combinations (400V-class)

Motor Cat. No.	Motor Power/Brake Cable	Motor Feedback Cable ⁽¹⁾
HPK-E1307C	Customer Supplied	2090-XXNFMF-Sxx (standard, non-flex) 2090-CFBM4DF-CDAFxx (continuous-flex) Absolute High-resolution Feedback
HPK-E1307E, HPK-E1308E, and HPK-E1310C		
HPK-E1609E, HPK-E1611E, HPK-E1613C, and HPK-E1613E		
HPK-E1815C and HPK-E2010C		

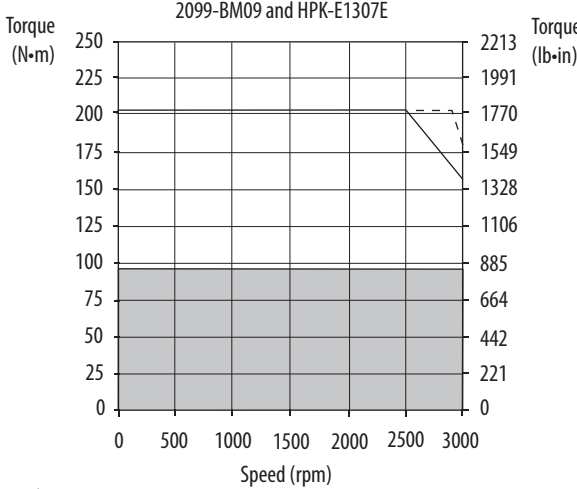
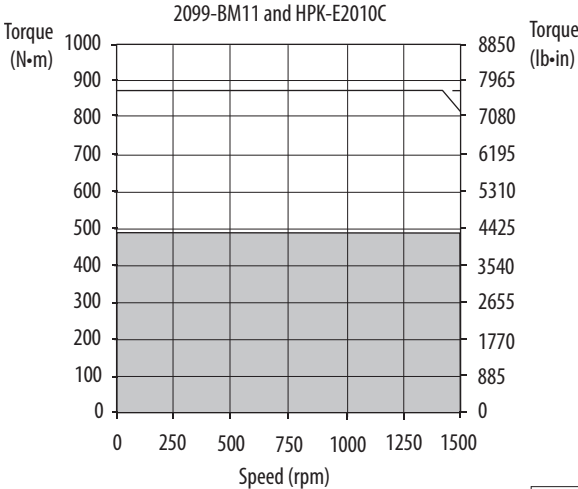
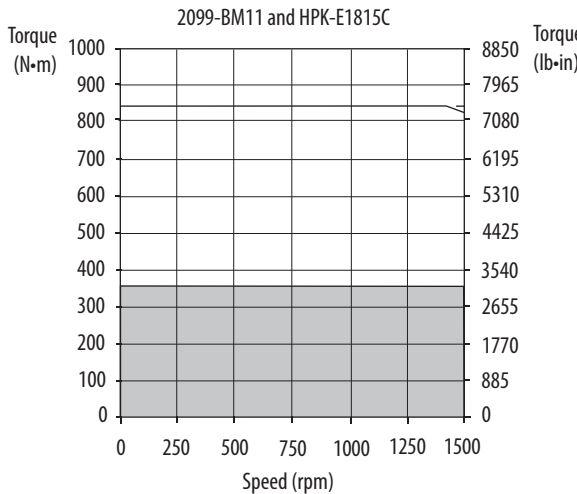
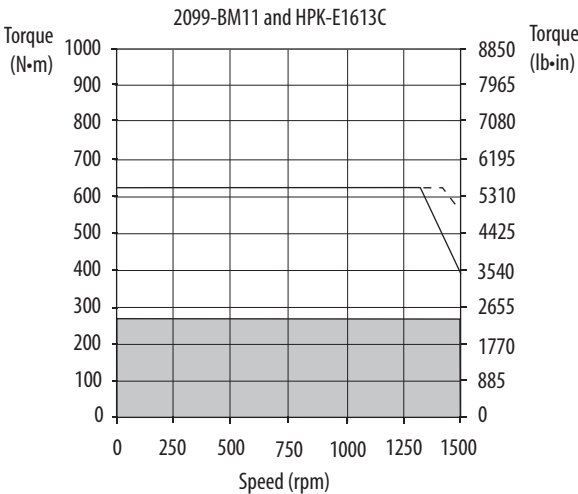
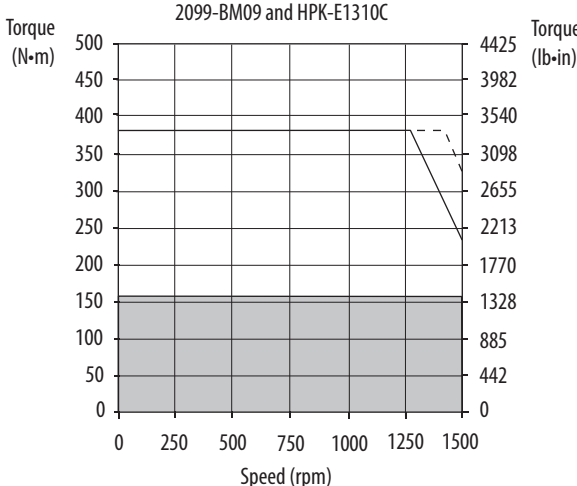
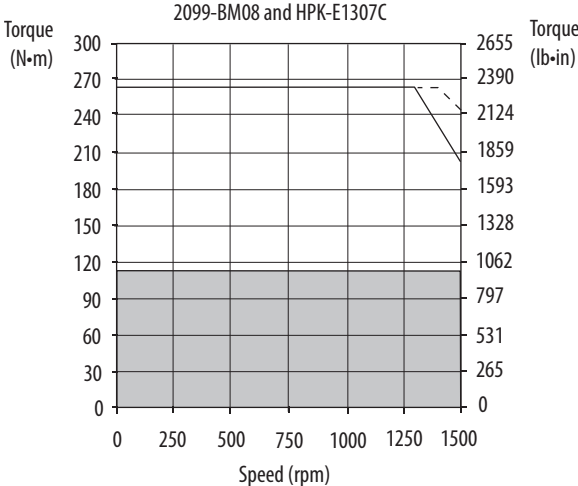
⁽¹⁾ Use feedback connector kit (catalog number 2090-K6CK-D15M) or panel-mounted breakout components on drive end. Refer to Required Drive Accessories on [page 3](#). For cable configuration illustrations and feature descriptions, by catalog number, refer to Kinetix 2090 Motor/Actuator Cables Overview beginning on [page 9](#). Motor-end connector kits, and panel-mounted breakout components (drive end), are available for motor power/brake and feedback cables. Refer to Kinetix 2090 Motor/Actuator Cables Overview on [page 9](#). Cable length xx is in meters. Refer to the Kinetix Motion Accessories Technical Data, publication [KNX-TD004](#), for standard cable lengths.

Kinetix HPK (400V) Performance Specifications with Kinetix 7000 (400V-class) Drives

Rotary Motor	Speed, base rpm	System Continuous Stall Current A 0-pk	System Continuous Stall Torque N·m (lb·in)	System Peak Stall Current A 0-pk	System Peak Stall Torque N·m (lb·in)	Motor Rated Output kW (Hp)	Kinetix 7000 (400V-class) Drives
HPK-E1307C	1500	58.5	112 (991)	146.6	263 (2327)	17.1 (22.9)	2099-BM08-S
HPK-E1310C		80.0	155 (1372)	200.0	380 (3363)	23.8 (32.4)	2099-BM09-S
HPK-E1613C		133.0	271 (2398)	310.0	625 (5531)	41.7 (55.9)	2099-BM11-S
HPK-E1815C		187.0	360 (3186)	440.0	840 (7434)	55.9 (74.9)	2099-BM11-S
HPK-E2010C		243.0	482 (4266)	440.0	870 (7700)	75.0 (100.5)	2099-BM11-S
HPK-E1307E	3000	102.0	96.0 (849)	217.0	202 (1788)	29.8 (39.9)	2099-BM09-S
HPK-E1308E		112.8	107 (947)	217.7	200 (1770)	33.2 (45.0)	2099-BM09-S
HPK-E1609E		153.7	156 (1381)	356.7	359 (3176)	48.4 (64.9)	2099-BM11-S
HPK-E1611E		185.0	183 (1619)	440.0	430 (3805)	57.0 (76.4)	2099-BM11-S
HPK-E1613E		242.5	237 (2097)	440.0	430 (3805)	73.7 (98.8)	2099-BM11-S

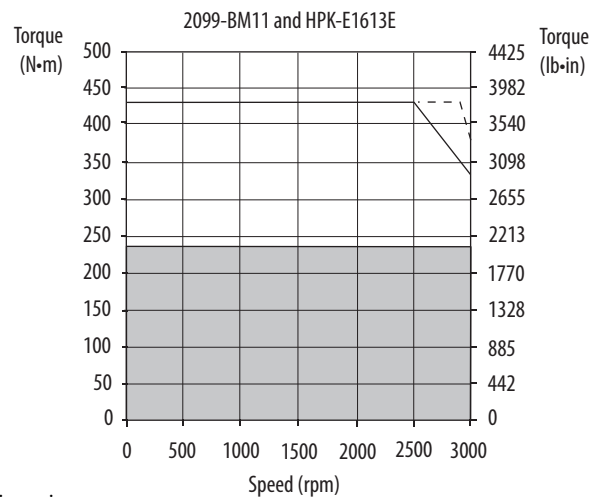
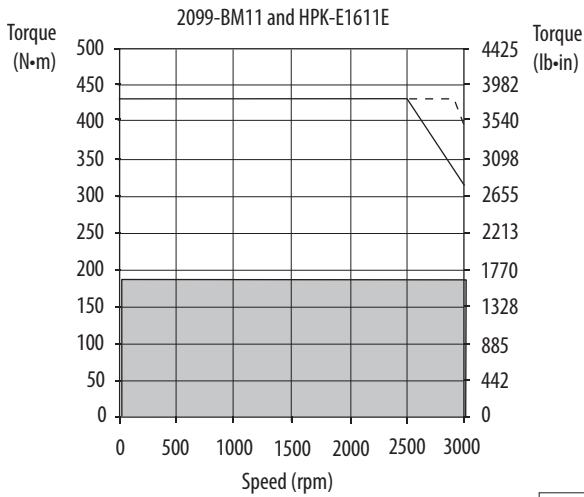
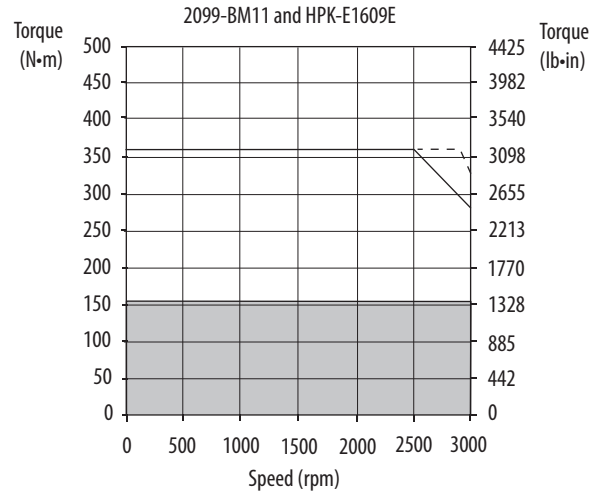
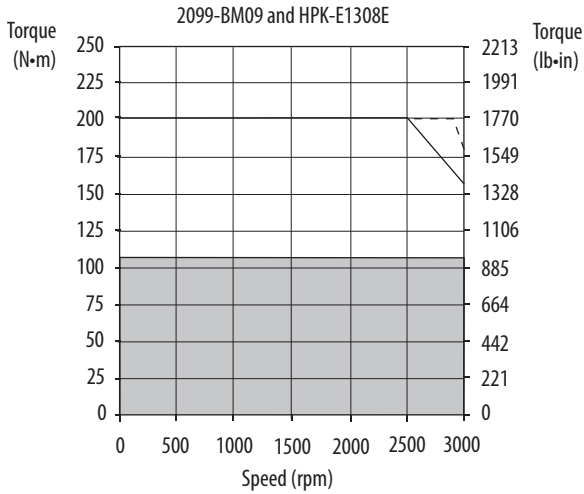
Performance specification data and curves reflect nominal system performance of a typical system with motor at 40 °C (104 °F) and drive at 50 °C (122 °F) ambient and rated line voltage. For additional information on ambient and line conditions, refer to Motion Analyzer software, version 4.7 or later.

Kinetix 7000 (400V-class) Drives/Kinetix HPK (400V) Motor Curves



= Intermittent operating region
 = Continuous operating region
 = Drive operation with 750V DC (rms) input voltage

Kinetix 7000 (400V-class) Drives/Kinetix HPK (400V) Motor Curves (continued)



- = Intermittent operating region
- = Continuous operating region
- = Drive operation with 750V DC (rms) input voltage

Kinetix 7000 (400V-class) Drives with Kinetix MMA Asynchronous Main Motors

This section provides system combination information for the Kinetix 7000 (400V-class) drives when matched with Kinetix MMA Asynchronous Main motors. Included are motor feedback cable catalog numbers, system performance specifications, and the optimum torque/speed curves.

Kinetix MMA Motor Cable Combinations

Motor Cat. No.	Customer Supplied Cables	Motor Feedback Cable ⁽¹⁾
MMA-B080	Motor Power Brake Blower ⁽²⁾	2090-CFBM7DF-CDAAx (standard, non-flex) 2090-CFBM7DF-CDAFxx (continuous-flex)
MMA-B100		
MMA-B132		
MMA-B160		
MMA-B180		
MMA-B225		

⁽¹⁾ Use feedback connector kit (catalog number 2090-K6CK-D15M) on the drive end. Refer to Required Drive Accessories on [page 3](#).

⁽²⁾ Thermal sensors, space heaters, bearing temperature sensors, and other accessories will require customer wiring.

For cable configuration illustrations and feature descriptions, by catalog number, refer to Kinetix 2090 Motor/Actuator Cables Overview beginning on [page 9](#). Motor-end connector kits, and panel-mounted breakout components (drive end), are available for motor power/brake and feedback cables. Refer to Kinetix 2090 Motor/Actuator Cables Overview on [page 9](#). Cable length xx is in meters. Refer to the Kinetix Motion Accessories Technical Data, publication [KNX-TD004](#), for standard cable lengths.

Kinetix MMA (400V) Performance Specifications with Kinetix 7000 (400V-class) Drives

The maximum mechanical speed is not listed in these tables as it is dependent on brake, encoder, and brake options. Refer to Kinetix MMA Asynchronous Main Motors Installation Instructions, [MM-IN001](#) for specific catalog information on your motor type and [Motion Analyzer](#) software for system specific information.

Kinetix MMA (400V) Motor Performance with Kinetix 7000 (400V-class) Drives

Rotary Motor Cat. No.	Rated Speed, rpm	Maximum Speed at Rated Power, rpm ⁽¹⁾		Continuous Current, A rms	Continuous Rated Torque ⁽²⁾ N•m (in•lb)	Peak Current, A rms	Peak Stall Torque N•m (in•lb)	Motor Rated Output kW (Hp)	Kinetix 7000 (400V-class) Drives ⁽³⁾
		400V AC	480V AC						
MMA-B080A06	580	1400	1740	1.6	10.5 (93)	4	25 (221)	0.6 (0.8)	2099-BM06-S
MMA-B080A10	1000	2400	3000	2.3	10 (89)	6	25 (221)	1 (1.3)	2099-BM06-S
MMA-B080A15	1500	3600	4500	3.3	9.5 (84)	9	25 (221)	1.5 (2)	2099-BM06-S
MMA-B080A18	1800	4300	5400	3.9	9.5 (84)	10	25 (221)	1.8 (2.4)	2099-BM06-S
MMA-B080A22	2200	5200	6000	4.5	9 (80)	13	25 (221)	2.1 (2.8)	2099-BM06-S
MMA-B080A26	2600	6000	6000	5	8.6 (76)	15	25 (221)	2.3 (3.1)	2099-BM06-S
MMA-B080B06	580	1400	1740	2.3	15.4 (136)	5	35 (310)	0.9 (1.2)	2099-BM06-S
MMA-B080B10	1000	2400	3000	3.4	14.7 (130)	8	35 (310)	1.5 (2)	2099-BM06-S
MMA-B080B15	1500	3600	4500	4.7	14 (124)	12	35 (310)	2.2 (3)	2099-BM06-S
MMA-B080B18	1800	4300	5400	5.6	14 (124)	14	35 (310)	2.6 (3.5)	2099-BM06-S
MMA-B080B22	2200	5200	6000	6.5	13.3 (118)	17	35 (310)	3.1 (4.2)	2099-BM06-S
MMA-B080B26	2600	6000	6000	7.3	12.6 (112)	20	35 (310)	3.4 (4.6)	2099-BM06-S
MMA-B080C06	580	1400	1740	3	20.9 (185)	7	48 (425)	1.3 (1.7)	2099-BM06-S
MMA-B080C10	1000	2400	3000	4.5	20 (177)	11	48 (425)	2.1 (2.8)	2099-BM06-S
MMA-B080C15	1500	3600	4500	6.3	19 (168)	16	48 (425)	3 (4)	2099-BM06-S
MMA-B080C18	1800	4300	5400	7.5	19 (168)	19	48 (425)	3.6 (4.8)	2099-BM06-S
MMA-B080C22	2200	5200	6000	8.7	18.1 (160)	23	48 (425)	4.2 (5.6)	2099-BM06-S
MMA-B080C26	2600	6000	6000	9.8	17.1 (151)	28	48 (425)	4.7 (6.3)	2099-BM06-S
MMA-B080D06	580	1400	1740	4	28.1 (249)	9	65 (575)	1.7 (2.3)	2099-BM06-S

Kinetix MMA (400V) Motor Performance with Kinetix 7000 (400V-class) Drives (Continued)

Rotary Motor Cat. No.	Rated Speed, rpm	Maximum Speed at Rated Power, rpm ⁽¹⁾		Continuous Current, A rms	Continuous Rated Torque ⁽²⁾ N•m (in•lb)	Peak Current, A rms	Peak Stall Torque N•m (in•lb)	Motor Rated Output kW (Hp)	Kinetix 7000 (400V-class) Drives ⁽³⁾
		400V AC	480V AC						
MMA-B080D10	1000	2400	3000	6	26.8 (237)	15	65 (575)	2.8 (3.8)	2099-BM06-S
MMA-B080D15	1500	3600	4500	8.4	25.5 (226)	21	65 (575)	4 (5.4)	2099-BM06-S
MMA-B080D18	1800	4300	5400	10	25.5 (226)	25	65 (575)	4.8 (6.4)	2099-BM06-S
MMA-B080D22	2200	5200	6000	11.6	24.2 (214)	31	65 (575)	5.6 (7.5)	2099-BM06-S
MMA-B080D26	2600	6000	6000	12.9	23 (204)	36	65 (575)	6.2 (8.3)	2099-BM06-S
MMA-B080E06	580	1400	1740	5.4	38.5 (341)	12	88 (779)	2.3 (3.1)	2099-BM06-S
MMA-B080E10	1000	2400	3000	8.2	36.8 (326)	20	88 (779)	3.8 (5.1)	2099-BM06-S
MMA-B080E15	1500	3600	4500	11.3	35 (310)	28	88 (779)	5.5 (7.4)	2099-BM06-S
MMA-B080E18	1800	4300	5400	13.5	35 (310)	34	88 (779)	6.6 (8.9)	2099-BM06-S
MMA-B080E22	2200	5200	6000	15.7	33.3 (295)	41	88 (779)	7.7 (10.3)	2099-BM06-S
MMA-B080E26	2600	6000	6000	17.5	31.5 (279)	49	88 (779)	8.6 (11.5)	2099-BM06-S
MMA-B100A06	580	1400	1740	5.4	38.5 (341)	11	80 (708)	2.3 (3.1)	2099-BM06-S
MMA-B100A10	1000	2400	3000	8.2	36.8 (326)	26	80 (708)	3.8 (5.1)	2099-BM06-S
MMA-B100A15	1500	3600	4500	11.3	35 (310)	26	80 (708)	5.5 (7.4)	2099-BM06-S
MMA-B100A18	1800	4300	5400	13.5	35 (310)	38	80 (708)	6.6 (8.9)	2099-BM06-S
MMA-B100A22	2200	5200	6000	15.7	33.3 (295)	38	80 (708)	7.7 (10.3)	2099-BM06-S
MMA-B100A26	2600	6000	6000	17.5	31.5 (279)	44	80 (708)	8.6 (11.5)	2099-BM06-S
MMA-B100B06	580	1400	1740	7.3	52.3 (463)	17	120 (1062)	3.2 (4.3)	2099-BM06-S
MMA-B100B10	1000	2400	3000	11	49.9 (442)	26	120 (1062)	5.2 (7)	2099-BM06-S
MMA-B100B15	1500	3600	4500	15.2	47.5 (420)	38	120 (1062)	7.5 (10.1)	2099-BM06-S
MMA-B100B18	1800	4300	5400	18.2	47.5 (420)	46	120 (1062)	9 (12.1)	2099-BM06-S
MMA-B100B22	2200	5200	6000	21.1	45.1 (399)	56	120 (1062)	10.4 (13.9)	2099-BM06-S
MMA-B100B26	2600	6000	6000	23.5	42.8 (379)	66	120 (1062)	11.6 (15.6)	2099-BM06-S
MMA-B100C06	580	1400	1740	8.9	64.4 (570)	21	150 (1328)	3.9 (5.2)	2099-BM06-S
MMA-B100C10	1000	2400	3000	13.5	61.4 (543)	33	150 (1328)	6.4 (8.6)	2099-BM06-S
MMA-B100C15	1500	3600	4500	18.7	58.5 (518)	48	150 (1328)	9.2 (12.3)	2099-BM06-S
MMA-B100C18	1800	4300	5400	22.4	58.5 (518)	57	150 (1328)	11 (14.8)	2099-BM06-S
MMA-B100C22	2200	5200	6000	25.9	55.6 (492)	68	146 (1297)	12.8 (17.2)	2099-BM06-S
	2200	5200	6000	25.9	55.6 (492)	70	150 (1328)	12.8 (17.2)	2099-BM07-S
MMA-B100C26	2600	6000	6000	29	52.7 (466)	68	123 (1094)	14.3 (19.2)	2099-BM06-S
	2600	6000	6000	29	52.7 (466)	80	145 (1287)	14.3 (19.2)	2099-BM07-S
	2600	6000	6000	29	52.7 (466)	83	150 (1328)	14.3 (19.2)	2099-BM08-S
MMA-B100D06	580	1400	1740	10.6	77 (682)	25	180 (1593)	4.7 (6.3)	2099-BM06-S
MMA-B100D10	1000	2400	3000	16	73.5 (651)	39	180 (1593)	7.7 (10.3)	2099-BM06-S
MMA-B100D15	1500	3600	4500	22.1	70 (620)	57	180 (1593)	11 (14.8)	2099-BM06-S
MMA-B100D18	1800	4300	5400	26.5	70 (620)	68	180 (1593)	13.2 (17.7)	2099-BM06-S
MMA-B100D22	2200	5200	6000	30.7	66.5 (589)	68	147 (1312)	15.3 (20.5)	2099-BM06-S
	2200	5200	6000	30.7	66.5 (589)	80	173 (1544)	15.3 (20.5)	2099-BM07-S
	2200	5200	6000	30.7	66.5 (589)	83	180 (1593)	15.3 (20.5)	2099-BM08-S
MMA-B100D26	2600	6000	6000	34.3	63 (558)	68	125 (1112)	17.2 (23.1)	2099-BM06-S
	2600	6000	6000	34.3	63 (558)	80	147 (1308)	17.2 (23.1)	2099-BM07-S
	2600	6000	6000	34.3	63 (558)	98	180 (1593)	17.2 (23.1)	2099-BM08-S
MMA-B100E06	580	1400	1740	13	94.6 (837)	30	220 (1947)	5.7 (7.6)	2099-BM06-S
MMA-B100E10	1000	2400	3000	19.6	90.3 (799)	48	220 (1947)	9.5 (12.7)	2099-BM06-S
MMA-B100E15	1500	3600	4500	27.2	86 (761)	68	214 (1902)	13.5 (18.1)	2099-BM06-S
	1500	3600	4500	27.2	86 (761)	70	220 (1947)	13.5 (18.1)	2099-BM07-S
MMA-B100E18	1800	4300	5400	32.5	86 (761)	68	180 (1604)	16.2 (21.7)	2099-BM06-S
	1800	4300	5400	32.5	86 (761)	80	213 (1887)	16.2 (21.7)	2099-BM07-S
	1800	4300	5400	32.5	86 (761)	83	220 (1947)	16.2 (21.7)	2099-BM08-S

Kinetix MMA (400V) Motor Performance with Kinetix 7000 (400V-class) Drives (Continued)

Rotary Motor Cat. No.	Rated Speed, rpm	Maximum Speed at Rated Power, rpm ⁽¹⁾		Continuous Current, A rms	Continuous Rated Torque ⁽²⁾ N•m (in•lb)	Peak Current, A rms	Peak Stall Torque N•m (in•lb)	Motor Rated Output kW (Hp)	Kinetix 7000 (400V-class) Drives ⁽³⁾
		400V AC	480V AC						
MMA-B100E22	2200	5200	6000	37.7	81.7 (723)	68	147 (1305)	18.8 (25.2)	2099-BM06-S
	2200	5200	6000	37.7	81.7 (723)	80	172 (1536)	18.8 (25.2)	2099-BM07-S
	2200	5200	6000	37.7	81.7 (723)	102	220 (1947)	18.8 (25.2)	2099-BM08-S
MMA-B100E26	2600	6000	6000	42.1	77.4 (685)	80	147 (1305)	21.1 (28.3)	2099-BM07-S
	2600	6000	6000	42.1	77.4 (685)	104	191 (1697)	21.1 (28.3)	2099-BM08-S
	2600	6000	6000	42.1	77.4 (685)	120	220 (1947)	21.1 (28.3)	2099-BM09-S
MMA-B132A06	580	1400	1740	12.6	105 (929)	24	200 (1770)	6.4 (8.6)	2099-BM06-S
MMA-B132A10	1000	2400	3000	20.3	100 (885)	41	200 (1770)	10.5 (14.1)	2099-BM06-S
MMA-B132A15	1500	3600	4500	28.1	95.5 (845)	59	200 (1770)	15 (20.1)	2099-BM06-S
MMA-B132A18	1800	4300	5400	33.6	95.5 (845)	68	194 (1729)	18 (24.1)	2099-BM06-S
	1800	4300	5400	33.6	95.5 (845)	70	200 (1770)	18 (24.1)	2099-BM07-S
MMA-B132A22	2200	5200	6000	39	90.7 (803)	68	158 (1407)	20.9 (28)	2099-BM06-S
	2200	5200	6000	39	90.7 (803)	80	186 (1656)	20.9 (28)	2099-BM07-S
	2200	5200	6000	39	90.7 (803)	86	200 (1770)	20.9 (28)	2099-BM08-S
MMA-B132A26	2600	6000	6000	43.5	86 (761)	80	158 (1410)	23.4 (31.4)	2099-BM07-S
	2600	6000	6000	43.5	86 (761)	101	200 (1770)	23.4 (31.4)	2099-BM08-S
MMA-B132B06	580	1400	1740	16	133 (1177)	29	240 (2124)	8.1 (10.9)	2099-BM06-S
MMA-B132B10	1000	2400	3000	26.1	127 (1124)	49	240 (2124)	13.3 (17.8)	2099-BM06-S
MMA-B132B15	1500	3600	4500	36.1	121 (1071)	68	227 (2017)	19 (25.5)	2099-BM06-S
	1500	3600	4500	36.1	121 (1071)	72	240 (2124)	19 (25.5)	2099-BM07-S
MMA-B132B18	1800	4300	5400	43.2	121 (1071)	80	223 (1987)	22.8 (30.6)	2099-BM07-S
	1800	4300	5400	43.2	121 (1071)	86	240 (2124)	22.8 (30.6)	2099-BM08-S
MMA-B132B22	2200	5200	6000	50.1	115 (1018)	80	183 (1627)	26.5 (35.5)	2099-BM07-S
	2200	5200	6000	50.1	115 (1018)	104	238 (2118)	26.5 (35.5)	2099-BM08-S
	2200	5200	6000	50.1	115 (1018)	105	240 (2124)	26.5 (35.5)	2099-BM09-S
MMA-B132B26	2600	6000	6000	56	109 (965)	104	203 (1806)	29.6 (39.7)	2099-BM08-S
	2600	6000	6000	56	109 (965)	123	240 (2124)	29.6 (39.7)	2099-BM09-S
MMA-B132C06	580	1400	1740	18.5	154 (1363)	34	280 (2478)	9.4 (12.6)	2099-BM06-S
MMA-B132C10	1000	2400	3000	29.7	147 (1301)	57	280 (2478)	15.4 (20.7)	2099-BM06-S
MMA-B132C15	1500	3600	4500	41.2	140 (1239)	80	273 (2431)	22 (29.5)	2099-BM07-S
	1500	3600	4500	41.2	140 (1239)	82	280 (2478)	22 (29.5)	2099-BM08-S
MMA-B132C18	1800	4300	5400	49.3	140 (1239)	80	226 (2014)	26.4 (35.4)	2099-BM07-S
	1800	4300	5400	49.3	140 (1239)	99	280 (2478)	26.4 (35.4)	2099-BM08-S
MMA-B132C22	2200	5200	6000	57.1	133 (1177)	104	243 (2160)	30.6 (41)	2099-BM08-S
	2200	5200	6000	57.1	133 (1177)	120	280 (2478)	30.6 (41)	2099-BM09-S
MMA-B132C26	2600	6000	6000	63.8	126 (1115)	104	205 (1825)	34.3 (46)	2099-BM08-S
	2600	6000	6000	63.8	126 (1115)	142	280 (2478)	34.3 (46)	2099-BM09-S
MMA-B132D06	580	1400	1740	21	175 (1549)	38	320 (2832)	10.6 (14.2)	2099-BM06-S
MMA-B132D10	1000	2400	3000	33.8	167 (1478)	65	320 (2832)	17.5 (23.5)	2099-BM06-S
MMA-B132D15	1500	3600	4500	46.9	159 (1407)	80	272 (2424)	25 (33.5)	2099-BM07-S
	1500	3600	4500	46.9	159 (1407)	94	320 (2832)	25 (33.5)	2099-BM08-S
MMA-B132D18	1800	4300	5400	56.1	159 (1407)	104	295 (2621)	30 (40.2)	2099-BM08-S
	1800	4300	5400	56.1	159 (1407)	113	320 (2832)	30 (40.2)	2099-BM09-S
MMA-B132D22	2200	5200	6000	65	151 (1336)	104	241 (2146)	34.8 (46.7)	2099-BM08-S
	2200	5200	6000	65	151 (1336)	138	320 (2832)	34.8 (46.7)	2099-BM09-S
MMA-B132D26	2600	6000	6000	72.6	143 (1266)	154	304 (2707)	39 (52.3)	2099-BM09-S
	2600	6000	6000	72.6	143 (1266)	162	320 (2832)	39 (52.3)	2099-BM10-S
MMA-B132E06	580	1400	1740	26.1	217 (1921)	48	400 (3540)	13.2 (17.7)	2099-BM06-S
MMA-B132E10	1000	2400	3000	40.7	207 (1832)	79	400 (3540)	21.7 (29.1)	2099-BM07-S

Kinetix MMA (400V) Motor Performance with Kinetix 7000 (400V-class) Drives (Continued)

Rotary Motor Cat. No.	Rated Speed, rpm	Maximum Speed at Rated Power, rpm ⁽¹⁾		Continuous Current, A rms	Continuous Rated Torque ⁽²⁾ N•m (in•lb)	Peak Current, A rms	Peak Stall Torque N•m (in•lb)	Motor Rated Output kW (Hp)	Kinetix 7000 (400V-class) Drives ⁽³⁾
		400V AC	480V AC						
MMA-B132E15	1500	3600	4500	56.3	198 (1752)	104	365 (3248)	31 (41.6)	2099-BM08-S
	1500	3600	4500	56.3	198 (1752)	114	400 (3540)	31 (41.6)	2099-BM09-S
MMA-B132E18	1800	4300	5400	67.4	198 (1752)	136	400 (3540)	37.2 (49.9)	2099-BM09-S
MMA-B132E22	2200	5200	6000	78.1	188 (1664)	154	371 (3307)	43.2 (57.9)	2099-BM09-S
	2200	5200	6000	78.1	188 (1664)	166	400 (3540)	43.2 (57.9)	2099-BM10-S
MMA-B132E26	2600	6000	6000	87.3	178 (1575)	154	314 (2797)	48.4 (64.9)	2099-BM09-S
	2600	6000	6000	87.3	178 (1575)	163	333 (2961)	48.4 (64.9)	2099-BM10-S
	2600	6000	6000	87.3	178 (1575)	196	400 (3540)	48.4 (64.9)	2099-BM11-S
MMA-B160A06	580	1400	1740	29.5	252 (2230)	53	450 (3983)	15.3 (20.5)	2099-BM06-S
MMA-B160A10	1000	2400	3000	47.8	240 (2124)	80	400 (3560)	25.2 (33.8)	2099-BM07-S
	1000	2400	3000	47.8	240 (2124)	90	450 (3983)	25.2 (33.8)	2099-BM08-S
MMA-B160A15	1500	3600	4500	66.2	229 (2027)	104	360 (3204)	36 (48.3)	2099-BM08-S
	1500	3600	4500	66.2	229 (2027)	130	450 (3983)	36 (48.3)	2099-BM09-S
MMA-B160A18	1800	4300	5400	75.2	218 (1925)	154	444 (3954)	41.0 (55.0)	2099-BM09-S
	1800	4300	5400	75.2	218 (1925)	156	450 (3983)	41.0 (55.0)	2099-BM10-S
MMA-B160A22	2200	5200	6000	82.5	195 (1729)	154	367 (3263)	45.0 (60.3)	2099-BM09-S
	2200	5200	6000	82.5	195 (1729)	163	388 (3454)	45.0 (60.3)	2099-BM10-S
	2200	5200	6000	82.5	195 (1729)	189	450 (3983)	45.0 (60.3)	2099-BM11-S
MMA-B160A26	2600	6000	6000	86.3	173 (1528)	163	326 (2901)	47.0 (63)	2099-BM10-S
	2600	6000	6000	86.3	173 (1528)	225	450 (3983)	47.0 (63)	2099-BM11-S
MMA-B160B06	580	1400	1740	34.5	294 (2602)	61	520 (4602)	17.9 (24)	2099-BM06-S
MMA-B160B10	1000	2400	3000	55.8	281 (2487)	103	520 (4602)	29.4 (39.4)	2099-BM08-S
MMA-B160B15	1500	3600	4500	77.3	268 (2372)	150	520 (4602)	42 (56.3)	2099-BM09-S
MMA-B160B18	1800	4300	5400	82.6	239 (2113)	163	474 (4214)	45.0 (60.3)	2099-BM10-S
	1800	4300	5400	82.6	239 (2113)	179	520 (4602)	45.0 (60.3)	2099-BM11-S
MMA-B160B22	2200	5200	6000	89.6	213 (1882)	163	387 (3445)	49.0 (65.7)	2099-BM10-S
	2200	5200	6000	89.6	213 (1882)	219	520 (4602)	49.0 (65.7)	2099-BM11-S
MMA-B160B26	2600	6000	6000	101	202 (1788)	163	327 (2913)	55.0 (73.8)	2099-BM10-S
	2600	6000	6000	101	202 (1788)	259	520 (4602)	55.0 (73.8)	2099-BM11-S
MMA-B160C06	580	1400	1740	40.2	343 (3036)	70	600 (5310)	20.8 (27.9)	2099-BM07-S
MMA-B160C10	1000	2400	3000	62.7	328 (2903)	104	543 (4829)	34.3 (46)	2099-BM08-S
	1000	2400	3000	62.7	328 (2903)	115	600 (5310)	34.3 (46)	2099-BM09-S
MMA-B160C15	1500	3600	4500	86.9	312 (2761)	163	586 (5212)	49 (65.7)	2099-BM10-S
	1500	3600	4500	86.9	312 (2761)	167	600 (5310)	49 (65.7)	2099-BM11-S
MMA-B160C18	1800	4300	5400	104	312 (2761)	163	489 (4352)	58.8 (78.9)	2099-BM10-S
	1800	4300	5400	104	312 (2761)	200	600 (5310)	58.8 (78.9)	2099-BM11-S
MMA-B160C22	2200	5200	6000	114	282 (2497)	163	402 (3582)	65.0 (87.2)	2099-BM10-S
	2200	5200	6000	114	282 (2497)	243	600 (5310)	65.0 (87.2)	2099-BM11-S
MMA-B160C26	2600	6000	6000	120	250 (2210)	288	600 (5310)	68.0 (91.2)	2099-BM11-S
MMA-B160D06	580	1400	1740	45.1	385 (3408)	80	683 (6078)	23.4 (31.4)	2099-BM07-S
	580	1400	1740	45.1	385 (3408)	82	700 (6196)	23.4 (31.4)	2099-BM08-S
MMA-B160D10	1000	2400	3000	71.1	368 (3257)	135	700 (6196)	38.5 (51.6)	2099-BM09-S
MMA-B160D15	1500	3600	4500	98.6	350 (3098)	163	579 (5155)	55 (73.8)	2099-BM10-S
	1500	3600	4500	98.6	350 (3098)	197	700 (6196)	55 (73.8)	2099-BM11-S
MMA-B160D18	1800	4300	5400	118	350 (3098)	163	483 (4303)	66 (88.5)	2099-BM10-S
	1800	4300	5400	118	350 (3098)	236	700 (6196)	66 (88.5)	2099-BM11-S
MMA-B160D22	2200	5200	6000	137	333 (2947)	288	700 (6196)	76.6 (102.7)	2099-BM11-S
MMA-B160D26	2600	6000	6000	153	315 (2788)	312	642 (5717)	85.8 (115.1)	2099-BM11-S
	2600	6000	6000	153	315 (2788)	340	700 (6196)	85.8 (115.1)	2099-BM12-S

Kinetix MMA (400V) Motor Performance with Kinetix 7000 (400V-class) Drives (Continued)

Rotary Motor Cat. No.	Rated Speed, rpm	Maximum Speed at Rated Power, rpm ⁽¹⁾		Continuous Current, A rms	Continuous Rated Torque ⁽²⁾ N•m (in•lb)	Peak Current, A rms	Peak Stall Torque N•m (in•lb)	Motor Rated Output kW (Hp)	Kinetix 7000 (400V-class) Drives ⁽³⁾
		400V AC	480V AC						
MMA-B180A06	580	1400	1740	43	371 (3284)	80	704 (6262)	22.6 (30.3)	2099-BM07-S
	580	1400	1740	43	371 (3284)	85	730 (6461)	22.6 (30.3)	2099-BM08-S
MMA-B180A10	1000	2400	3000	69.1	358 (3169)	141	730 (6461)	37.4 (50.2)	2099-BM09-S
MMA-B180A15	1500	3600	4500	95	337.5 (2987)	154	546 (4857)	53 (71.1)	2099-BM09-S
	1500	3600	4500	95	337.5 (2987)	163	578 (5141)	53 (71.1)	2099-BM10-S
	1500	3600	4500	95	337.5 (2987)	206	730 (6461)	53 (71.1)	2099-BM11-S
MMA-B180A18	1800	4300	5400	110	327 (2894)	163	482 (4287)	61.6 (82.6)	2099-BM10-S
	1800	4300	5400	110	327 (2894)	247	730 (6461)	61.6 (82.6)	2099-BM11-S
MMA-B180A22	2200	5200	6000	117	285 (2522)	163	397 (3530)	65.7 (88.1)	2099-BM10-S
	2200	5200	6000	117	285 (2522)	300	730 (6461)	65.7 (88.1)	2099-BM11-S
MMA-B180B06	580	1400	1740	57.4	495 (4381)	104	897 (7979)	30.1 (40.4)	2099-BM08-S
	580	1400	1740	57.4	495 (4381)	116	1000 (8851)	30.1 (40.4)	2099-BM09-S
MMA-B180B10	1000	2400	3000	92	477 (4222)	154	798 (7102)	49.9 (66.9)	2099-BM09-S
	1000	2400	3000	92	477 (4222)	163	845 (7517)	49.9 (66.9)	2099-BM10-S
	1000	2400	3000	92	477 (4222)	193	1000 (8851)	49.9 (66.9)	2099-BM11-S
MMA-B180B15	1500	3600	4500	125	446 (3947)	280	1000 (8851)	70 (93.9)	2099-BM11-S
MMA-B180B18	1800	4300	5400	147	436 (3859)	163	484 (4308)	82.1 (110.1)	2099-BM10-S
	1800	4300	5400	147	436 (3859)	337	1000 (8851)	82.1 (110.1)	2099-BM11-S
MMA-B180B22	2200	5200	6000	157	381 (3372)	312	759 (6756)	87.7 (117.6)	2099-BM11-S
	2200	5200	6000	157	381 (3372)	411	1000 (8851)	87.7 (117.6)	—
MMA-B180C06	580	1400	1740	64.5	557 (4930)	104	898 (7991)	33.8 (45.3)	2099-BM08-S
	580	1400	1740	64.5	557 (4930)	139	1200 (10621)	33.8 (45.3)	2099-BM09-S
MMA-B180C10	1000	2400	3000	103	536 (4744)	163	847 (7536)	56.2 (75.4)	2099-BM10-S
	1000	2400	3000	103	536 (4744)	231	1200 (10621)	56.2 (75.4)	2099-BM11-S
MMA-B180C15	1500	3600	4500	143	510 (4514)	312	1111 (9888)	80 (107.3)	2099-BM11-S
	1500	3600	4500	143	510 (4514)	337	1200 (10621)	80 (107.3)	2099-BM12-S
MMA-B180C18	1800	4300	5400	165	490 (4337)	312	927 (8248)	92.3 (123.8)	2099-BM11-S
	1800	4300	5400	165	490 (4337)	372	1105 (9834)	92.3 (123.8)	2099-BM12-S
	1800	4300	5400	165	490 (4337)	404	1200 (10621)	92.3 (123.8)	—
MMA-B180C22	2200	5200	6000	176	428 (3788)	312	759 (6759)	98.6 (132.2)	2099-BM11-S
	2200	5200	6000	176	428 (3788)	372	905 (8059)	98.6 (132.2)	2099-BM12-S
	2200	5200	6000	176	428 (3788)	493	1200 (10621)	98.6 (132.2)	—
MMA-B180D06	580	1400	1740	71.6	618 (5470)	154	1348 (11993)	37.5 (50.3)	2099-BM09-S
	580	1400	1740	71.6	618 (5470)	160	1400 (12391)	37.5 (50.3)	2099-BM10-S
MMA-B180D10	1000	2400	3000	115	595 (5266)	163	1014 (9027)	62.3 (83.5)	2099-BM10-S
	1000	2400	3000	115	595 (5266)	271	1400 (12391)	62.3 (83.5)	2099-BM11-S
MMA-B180D15	1500	3600	4500	157	560 (4956)	312	1109 (9867)	88 (118)	2099-BM11-S
	1500	3600	4500	157	560 (4956)	372	1322 (11764)	88 (118)	2099-BM12-S
	1500	3600	4500	157	560 (4956)	394	1400 (12391)	88 (118)	—
MMA-B180D18	1800	4300	5400	183	544 (4815)	372	1106 (9841)	102 (136.8)	2099-BM12-S
	1800	4300	5400	183	544 (4815)	471	1400 (12391)	102 (136.8)	—
MMA-B180D22	2200	5200	6000	196	475 (4204)	372	901 (8019)	109 (146.2)	2099-BM12-S
	2200	5200	6000	196	475 (4204)	578	1400 (12391)	109 (146.2)	—
MMA-B225A06	580	1400	1740	75.5	651 (5762)	139	1200 (10621)	39.6 (53.1)	2099-BM09-S
MMA-B225A10	1000	2400	3000	121	627 (5549)	163	843 (7504)	65.7 (88.1)	2099-BM10-S
	1000	2400	3000	121	627 (5549)	232	1200 (10621)	65.7 (88.1)	2099-BM11-S
MMA-B225A15	1500	3600	4500	165	586 (5187)	312	1104 (9829)	92 (123.4)	2099-BM11-S
	1500	3600	4500	165	586 (5187)	339	1200 (10621)	92 (123.4)	2099-BM12-S

Kinetix MMA (400V) Motor Performance with Kinetix 7000 (400V-class) Drives (Continued)

Rotary Motor Cat. No.	Rated Speed, rpm	Maximum Speed at Rated Power, rpm ⁽¹⁾		Continuous Current, A rms	Continuous Rated Torque ⁽²⁾ N•m (in•lb)	Peak Current, A rms	Peak Stall Torque N•m (in•lb)	Motor Rated Output kW (Hp)	Kinetix 7000 (400V-class) Drives ⁽³⁾
		400V AC	480V AC						
MMA-B225A18	1800	4300	4799	193	573 (5071)	372	1102 (9810)	108 (144.8)	2099-BM12-S
	1800	4300	4799	193	573 (5071)	405	1200 (10621)	108 (144.8)	—
MMA-B225B06	580	1400	1740	90	778 (6886)	154	1328 (11816)	47.2 (63.3)	2099-BM09-S
	580	1400	1740	90	778 (6886)	163	1405 (12506)	47.2 (63.3)	2099-BM10-S
	580	1400	1740	90	778 (6886)	174	1500 (13276)	47.2 (63.3)	2099-BM11-S
MMA-B225B10	1000	2400	3000	145	749 (6629)	289	1500 (13276)	78.4 (105.1)	2099-BM11-S
MMA-B225B15	1500	3600	4500	198	703 (6222)	372	1322 (11768)	110 (147.5)	2099-BM12-S
	1500	3600	4500	198	703 (6222)	422	1500 (13276)	110 (147.5)	—
MMA-B225B18	1800	4300	4799	230	684 (6054)	372	1107 (9854)	129 (173)	2099-BM12-S
	1800	4300	4799	230	684 (6054)	504	1500 (13276)	129 (173)	—
MMA-B225C06	580	1400	1740	99	855 (7567)	163	1411 (12554)	51.9 (69.6)	2099-BM10-S
	580	1400	1740	99	855 (7567)	208	1800 (15931)	51.9 (69.6)	2099-BM11-S
MMA-B225C10	1000	2400	3000	159	824 (7293)	312	1609 (14322)	86.2 (115.6)	2099-BM11-S
	1000	2400	3000	159	824 (7293)	349	1800 (15931)	86.2 (115.6)	2099-BM12-S
MMA-B225C15	1500	3600	4500	216	767 (6789)	372	1321 (11754)	120 (160.9)	2099-BM12-S
	1500	3600	4500	216	767 (6789)	507	1800 (15931)	120 (160.9)	—
MMA-B225C18	1800	4300	4799	253	752 (6656)	605	1800 (15931)	142 (190.4)	—
MMA-B225D06	580	1400	1740	116	1001 (8860)	163	1409 (12544)	60.8 (81.5)	2099-BM10-S
	580	1400	1740	116	1001 (8860)	266	2300 (20357)	60.8 (81.5)	2099-BM11-S
MMA-B225D10	1000	2400	3000	186	964 (8532)	372	1927 (17151)	101 (135.4)	2099-BM12-S
	1000	2400	3000	186	964 (8532)	444	2300 (20357)	101 (135.4)	—
MMA-B225D15	1500	3600	4500	250	890 (7877)	648	2300 (20357)	140 (187.7)	—
MMA-B225D18	1800	4300	4799	296	881 (7798)	773	2300 (20357)	166 (222.6)	—
MMA-B225E06	580	1400	1740	144	1239 (10966)	302	2600 (23012)	75.3 (101)	2099-BM11-S
MMA-B225E10	1000	2400	3000	230	1193 (10559)	372	1923 (17113)	125 (167.6)	2099-BM12-S
	1000	2400	3000	230	1193 (10559)	503	2600 (23012)	125 (167.6)	—
MMA-B225E15	1500	3600	4500	313	1115 (9869)	730	2600 (23012)	175 (234.7)	—
MMA-B225E18	1800	4300	4799	366	1090 (9647)	875	2600 (23012)	205 (274.9)	—

⁽¹⁾ Motor may not be able to reach max speed due to mechanical limitations. Mechanical maximum speed is dependent on the bearing, brake, and encoder type. Refer to Kinetix MMA Asynchronous Main Motors Installation Instructions, publication [MM-IN001](#) and Proposal Works software for specific motor information.

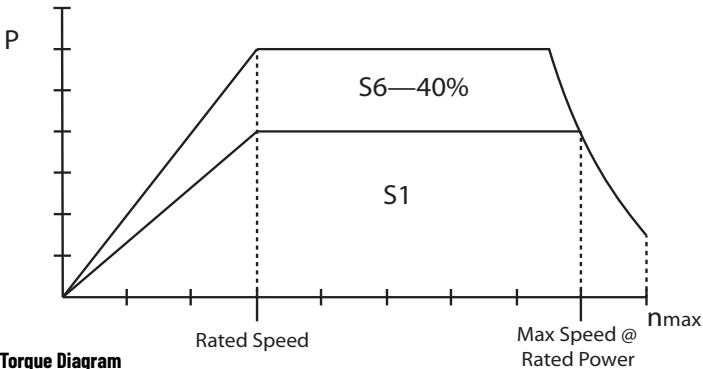
⁽²⁾ Torque values were rounded to the nearest whole number, each unit was rounded separately.

⁽³⁾ Where no Kinetix 7000 Drive is listed, we recommend a PowerFlex 750-Series. See PowerFlex 750-series AC Drives Technical Data, publication [750-TD001](#).

Kinetix MMA (400V-class) Motor Power and Torque Curves

The Kinetix MMA Asynchronous Main Motors use the graphs that follow to show the motor power and torque speed curves. Performance specification data and curves reflect nominal system performance of a typical system with motor at 40 °C (104 °F) and drive at 50 °C (122 °F) ambient. For additional information on ambient and line conditions, refer to Motion Analyzer software, version 4.7 or later.

Power Diagram



Torque Diagram

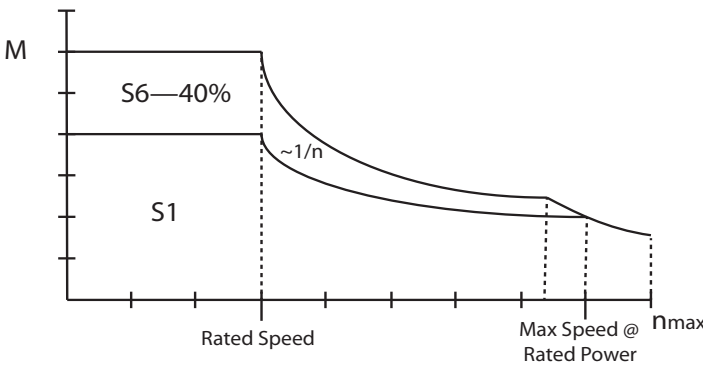


Chart Legend

$N_n^{(1)}$	rated (nominal) speed
n_1	max. operating speed at full rated power
$n_{max}^{(1)}$	max. allowed mechanical speed
P	power
M	torque
S1 ⁽²⁾	continuous running duty
S6 ⁽²⁾	continuous operation periodic duty

(1) N_{max} is the true maximum speed and n_1 is the reference to the speed that you can achieve at constant power. N_{max} may not give you full rated power. It is possible for N_{max} to be less than n_1 based on motor configuration.

(2) For additional information see IEC 60034-1.

Kinetix 7000 (400V-class) Drives with Kinetix MPL Low Inertia Motors

This section provides system combination information for the Kinetix 7000 (400V-class) drives when matched with Kinetix MPL servo motors. Included are motor power/brake and feedback cable catalog numbers, system performance specifications, and the optimum torque/speed curves.

IMPORTANT The Kinetix MPL servo motors on this page are equipped with DIN connectors (specified by 7 in the catalog number) and are not compatible with cables designed for motors equipped with bayonet connectors (specified by 2 in the catalog number). The motors with bayonet connectors (for example, MPL-A310P-xx2xAA) are being discontinued and require 2090-XXNxMP (bayonet) cables. For help with migration or to select bayonet cables, contact your Rockwell Automation sales representative.

Kinetix MPL Motor Cable Combinations

Motor Cat. No. (400V-class)	Motor Power/Brake Cable	Motor Feedback Cable ⁽¹⁾
MPL-B540K-xx7xAA, MPL-B560F-xx7xAA	2090-CPxM7DF-14AAxx (standard, non-flex) 2090-CPxM7DF-14AFxx (continuous-flex)	2090-CFBM7DF-CEAAxx or 2090-CFBM7DD-CEAAxx (standard, non-flex) 2090-CFBM7DF-CEAFxx or 2090-CFBM7DD-CEAFxx (continuous-flex) Absolute High-resolution Feedback
MPL-B580F-xx7xAA, MPL-B580J-xx7xAA MPL-B640F-xx7xAA	2090-CPxM7DF-10AAxx (standard, non-flex) 2090-CPxM7DF-10AFxx (continuous-flex)	
MPL-B660F-xx7xAA, MPL-B680D-xx7xAA, MPL-B960B-xx7xAA, MPL-B980B-xx7xAA	2090-CPxM7DF-08AAxx (standard, non-flex) 2090-CPxM7DF-08AFxx (continuous-flex)	
MPL-B680F-xx7xAA, MPL-B860D-xx7xAA	2090-CPBM7DF-06AAxx (standard, non-flex)	
MPL-B880C-xx7xAA		
MPL-B880D-xx7xAA	2090-CPBM7DF-04AAxx (standard, non-flex)	
MPL-B960C-xx7xAA, MPL-B960D-xx7xAA, MPL-B980C-xx7xAA, MPL-B980D-xx7xAA		
MPL-B980E-xx7xAA		

⁽¹⁾ Use low-profile connector kit (catalog number 2090-K6CK-D15M) or panel-mounted breakout components on drive end. Refer to Required Drive Accessories on [page 3](#). For cable configuration illustrations and feature descriptions, by catalog number, refer to Kinetix 2090 Motor/Actuator Cables Overview beginning on [page 9](#). Motor-end connector kits, and panel-mounted breakout components (drive end), are available for motor power/brake and feedback cables. Refer to Kinetix 2090 Motor/Actuator Cables Overview on [page 9](#). Cable length xx is in meters. Refer to the Kinetix Motion Accessories Technical Data, publication [KNX-TD004](#), for standard cable lengths.

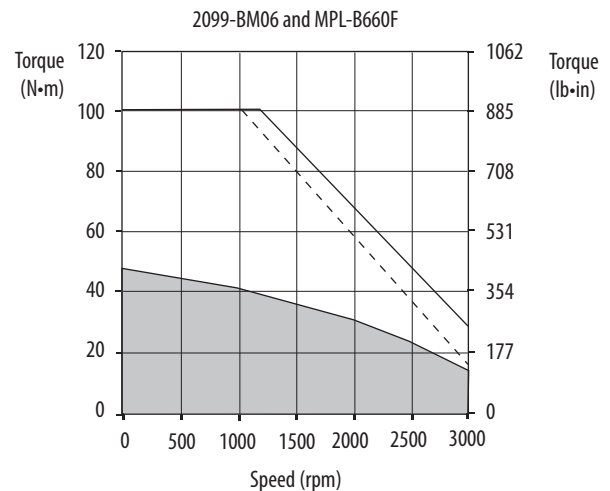
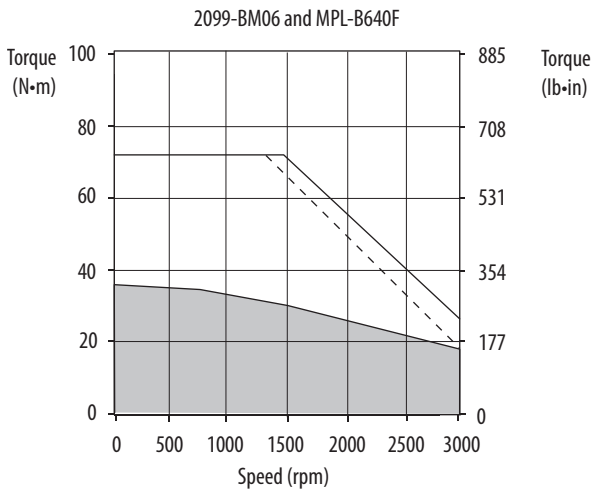
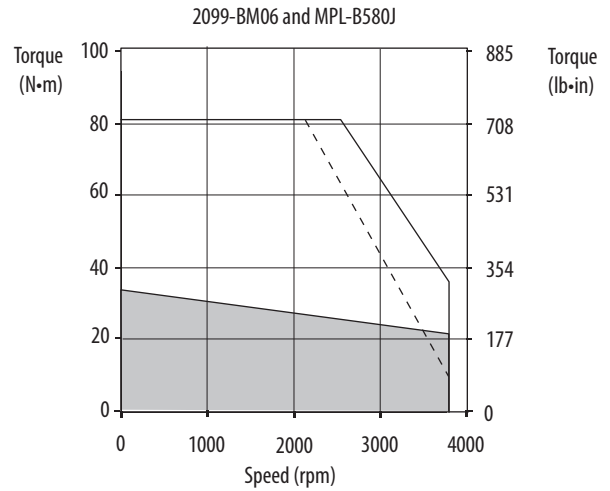
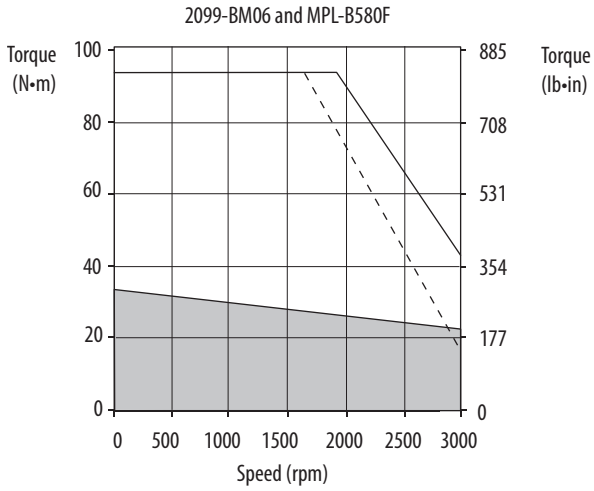
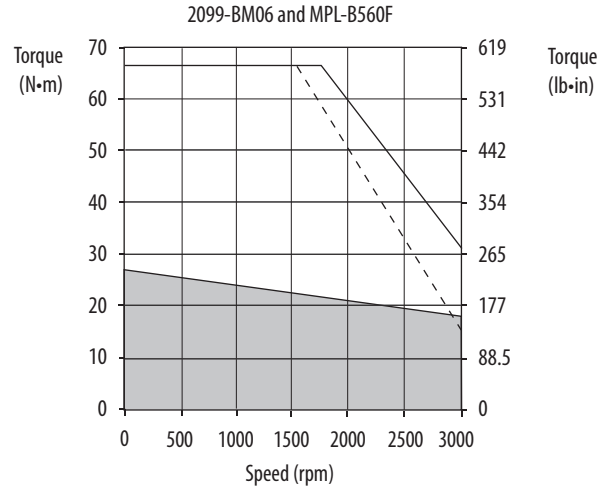
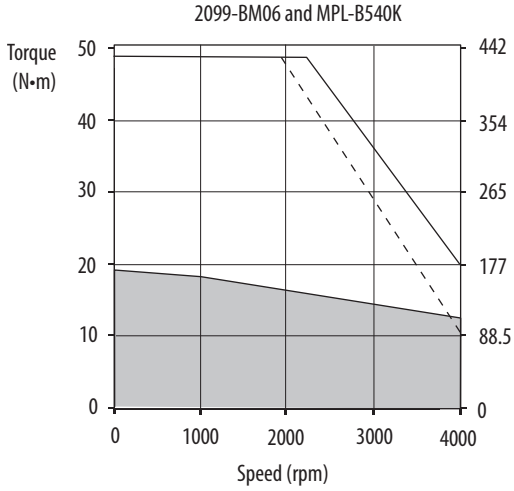
Kinetix MPL Motor Performance Specifications with Kinetix 7000 (400V-class) Drives

Rotary Motor	Speed, max rpm	System Continuous Stall Current A 0-pk	System Continuous Stall Torque N•m (lb•in)	System Peak Stall Current A 0-pk	System Peak Stall Torque N•m (lb•in)	Motor Rated Output kW	Kinetix 7000 (400V-class) Drives
MPL-B540K	3000	20.4	19.5 (172)	60.0	48.6 (430)	5.4	2099-BM06-S
MPL-B560F	3000	20.6	27.0 (239)	68.0	67.7 (599)	5.5	2099-BM06-S
MPL-B580F	3000	26.0	34.0 (301)	94.0	87.0 (770)	7.1	2099-BM06-S
MPL-B580J	3800	32.0	34.0 (301)	94.0	81.0 (717)	7.9	2099-BM06-S
MPL-B640F	3000	27.8	36.7 (325)	65.0	72.3 (640)	6.1	2099-BM06-S
MPL-B660F	3000	33.0	48.0 (425)	96.0	101 (894)	6.1	2099-BM06-S
MPL-B680D	2000	29.4	62.8 (556)	94.0	154 (1363)	9.3	2099-BM06-S
MPL-B680F	3000	41.5	59.4 (526)	96.0	108 (956)	7.5	2099-BM06-S
MPL-B860D	2000	40.9	83.1 (735)	95.5	152 (1345)	12.5	2099-BM06-S
MPL-B880C	1500	41.1	108 (956)	96.0	200 (1796)	12.6	2099-BM06-S
			109 (965)	97.5	203 (1770)		2099-BM07-S

Rotary Motor	Speed, max rpm	System Continuous Stall Current A 0-pk	System Continuous Stall Torque N•m (lb•in)	System Peak Stall Current A 0-pk	System Peak Stall Torque N•m (lb•in)	Motor Rated Output kW	Kinetix 7000 (400V-class) Drives
MPL-B880D	2000	57.0	92.5 (818)	96.0	147 (1301)	12.6	2099-BM06-S
		58.0	110 (973)				2099-BM07-S
MPL-B960B	1200	36.8	130 (1150)	94.0	231 (2044)	12.7	2099-BM06-S
MPL-B960C	1500	47.6	124 (1097)	96.0	184 (1628)	14.8	2099-BM06-S
				113	209 (1850)		2099-BM07-S
				125	226 (2000)		2099-BM08-S
MPL-B960D	2000	57.0	100 (885)	96.0	171 (1513)	15.0	2099-BM06-S
				113	201 (1779)		2099-BM07-S
				125	223 (1973)		2099-BM08-S
MPL-B980B	1000	34.6	162 (1434)	94.0	278 (2460)	15.2	2099-BM06-S
MPL-B980C	1500	57.0	131 (1159)	96.0	198 (1752)	16.8	2099-BM06-S
				113	227 (2009)		2099-BM07-S
				140	270 (2389)		2099-BM08-S
MPL-B980D	2000	57.0	113 (1000)	96.0	183 (1619)	18.6	2099-BM06-S
				113	213 (1885)		2099-BM07-S
				140	259 (2292)		2099-BM08-S
MPL-B980E	2750	105	141 (1250)	218	237 (2100)	13.0	2099-BM09-S

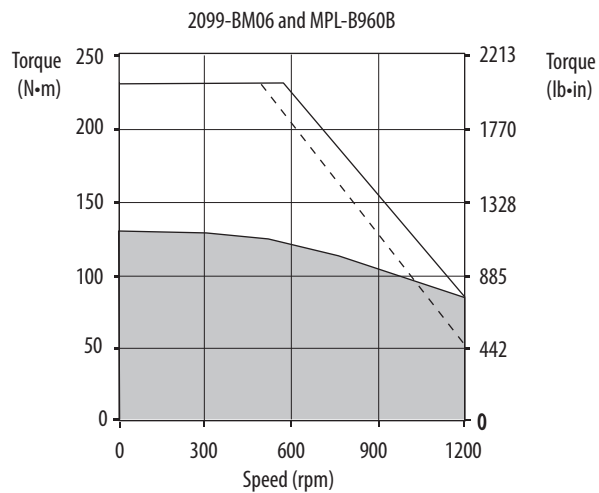
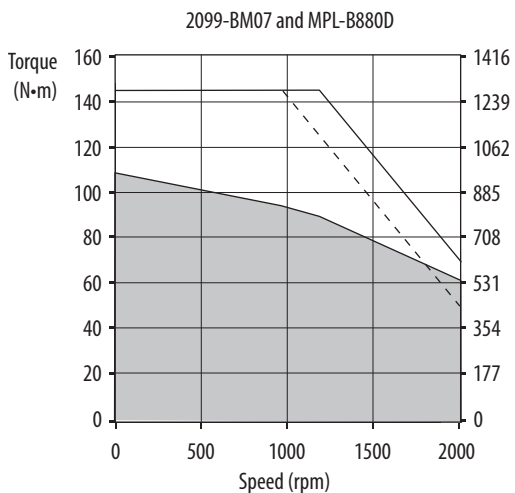
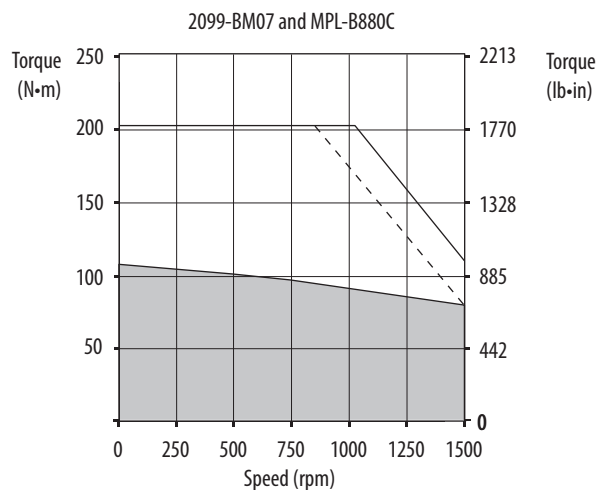
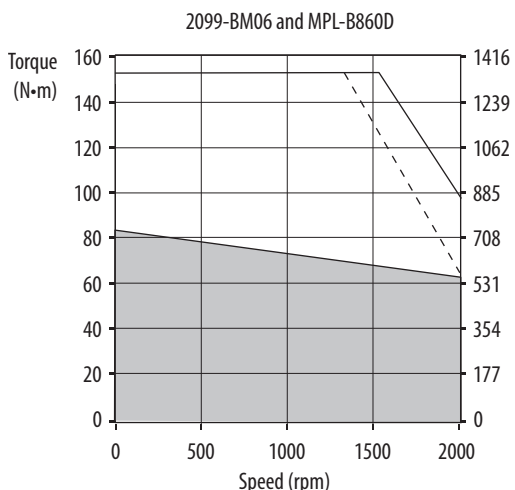
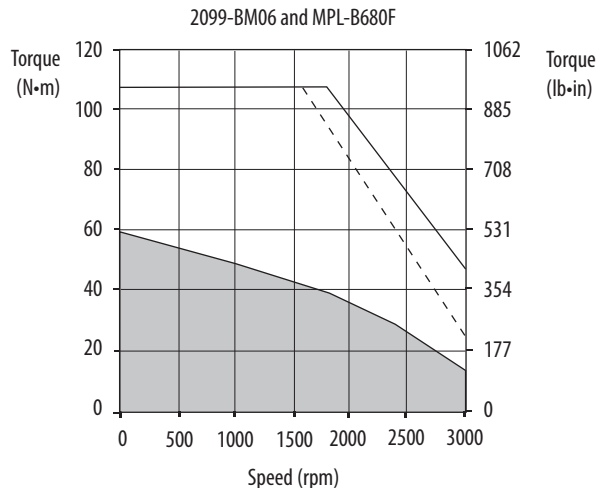
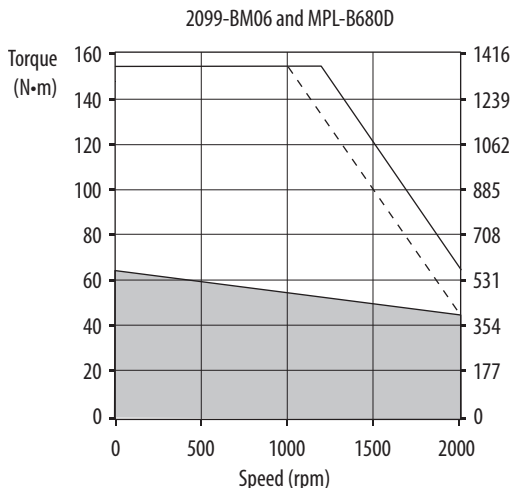
Performance specification data and curves reflect nominal system performance of a typical system with motor at 40 °C (104 °F) and drive at 50 °C (122 °F) ambient and rated line voltage. For additional information on ambient and line conditions, refer to Motion Analyzer software, version 4.7 or later.

Kinetix 7000 (400V-class) Drives/Kinetix MPL Low Inertia Servo Motor Curves



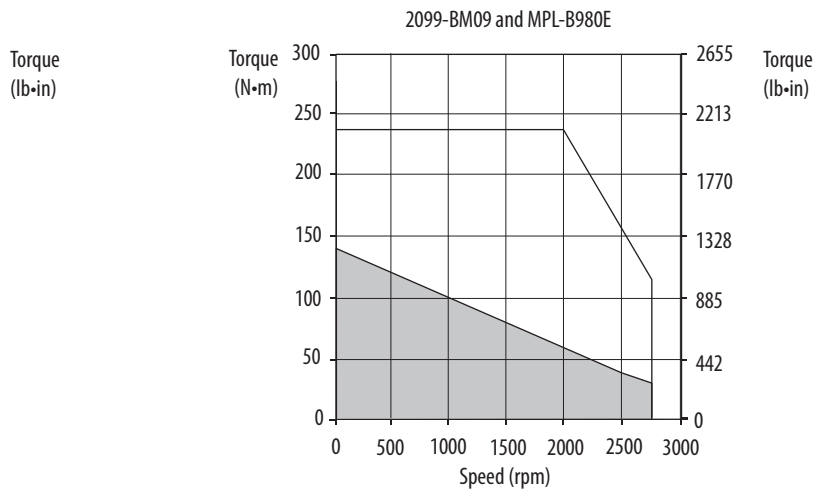
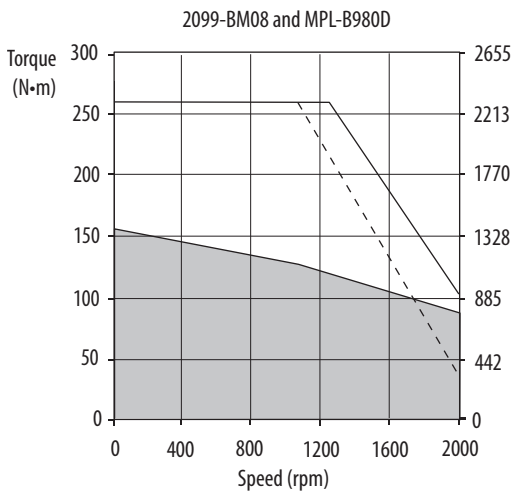
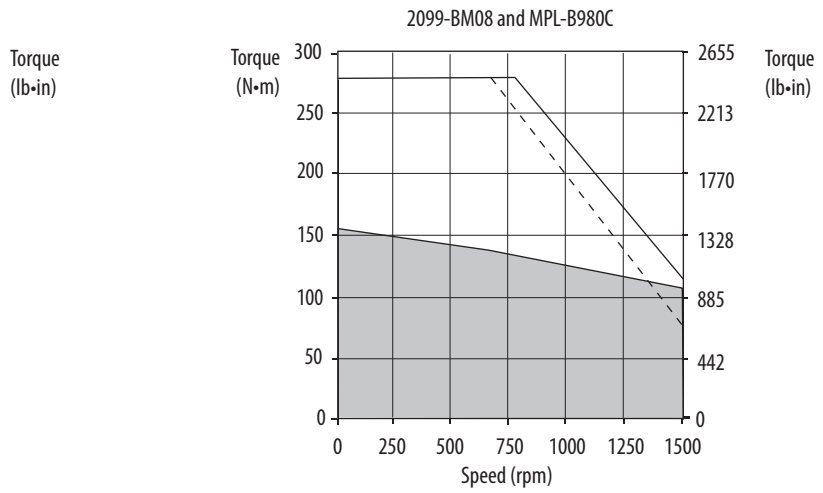
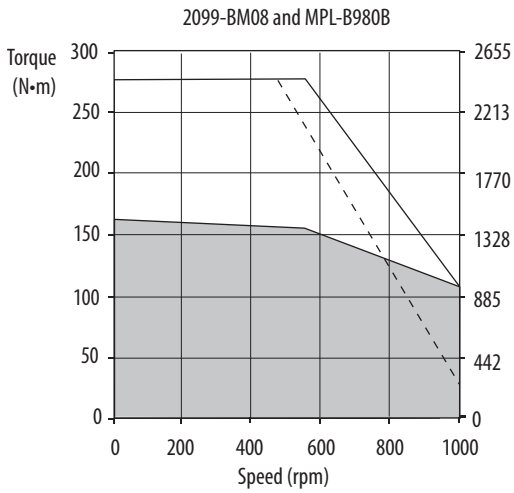
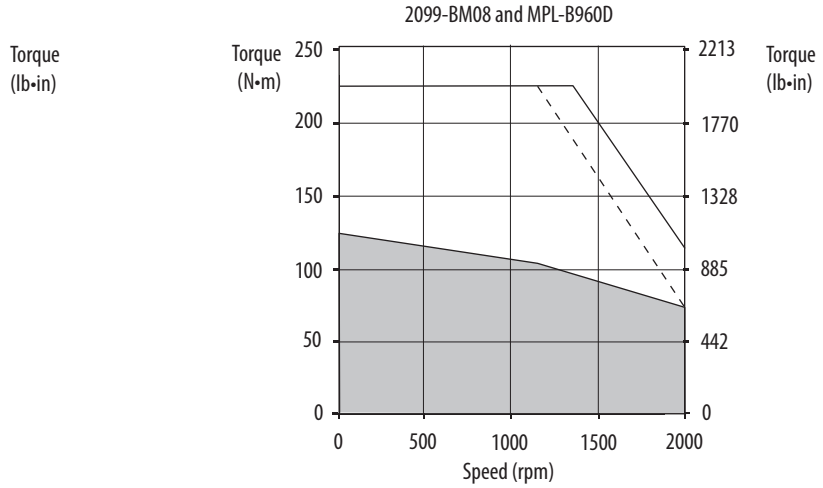
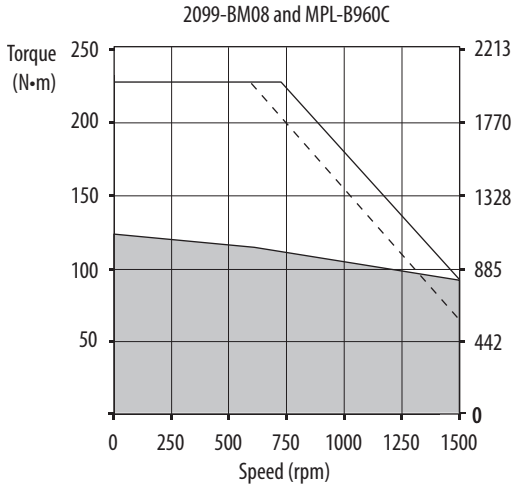
= Intermittent operating region
 = Continuous operating region
 = Drive operation with 400V AC (rms) input voltage

Kinetix 7000 (400V-class) Drives/Kinetix MPL Low Inertia Servo Motor Curves (continued)



- = Intermittent operating region
- = Continuous operating region
- = Drive operation with 400V AC (rms) input voltage

Kinetix 7000 (400V-class) Drives/Kinetix MPL Low Inertia Servo Motor Curves (continued)



- = Intermittent operating region
- = Continuous operating region
- = Drive operation with 400V AC (rms) input voltage

Kinetix 7000 (400V-class) Drives with Kinetix MPM Medium Inertia Servo Motors

This section provides system combination information for the Kinetix 7000 (400V-class) drives when matched with Kinetix MPM medium-inertia motors. Included are motor power/brake and feedback cable catalog numbers, system performance specifications, and the optimum torque/speed curves.

Kinetix MPM Motor Cable Combinations

Motor Cat. No. (400V-class)	Motor Power/Brake Cable	Motor Feedback Cable ⁽¹⁾
MPM-B1651F, MPM-B1653C	2090-CPxM7DF-14AAxx (standard, non-flex) 2090-CPxM7DF-14AFxx (continuous-flex)	2090-CFBM7DF-CEAAxx or 2090-CFBM7DD-CEAAxx (standard, non-flex) 2090-CFBM7DF-CEAFxx or 2090-CFBM7DD-CEAFxx (continuous-flex) Absolute High-resolution Feedback
MPM-B1651M, MPM-B1652E, MPM-B1652F, MPM-B1653E	2090-CPxM7DF-10AAxx (standard, non-flex) 2090-CPxM7DF-10AFxx (continuous-flex)	
MPM-B2152C, MPM-B2153B		
MPM-B1653F	2090-CPxM7DF-08AAxx (standard, non-flex) 2090-CPxM7DF-08AFxx (continuous-flex)	
MPM-B2152F, MPM-B2152M, MPM-B2153E, MPM-B2153F, MPM-B2154B, MPM-B2154E, MPM-B2154F		

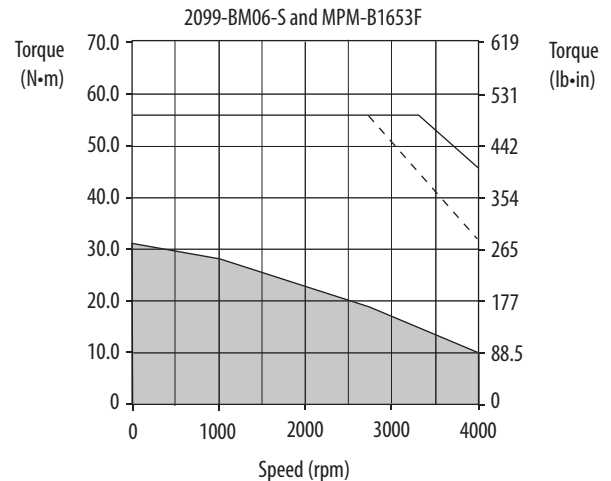
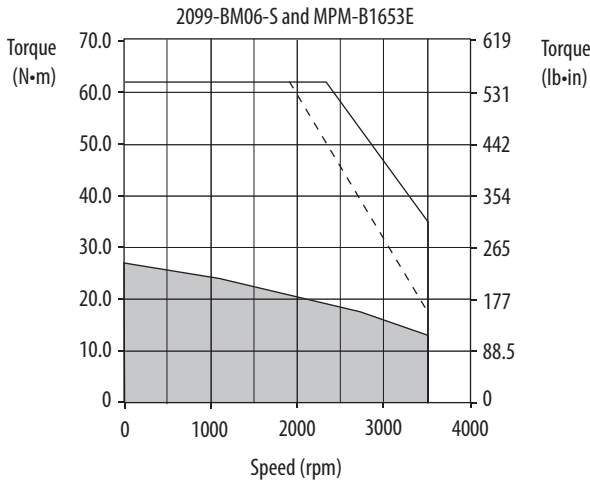
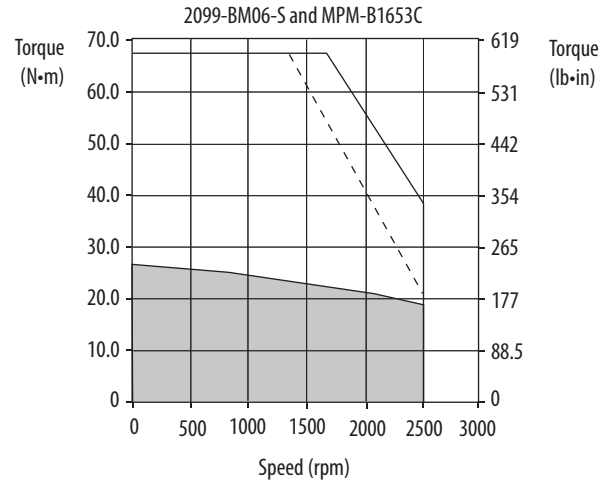
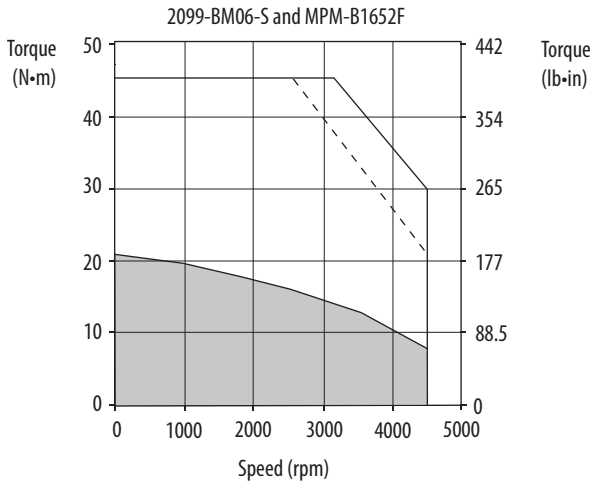
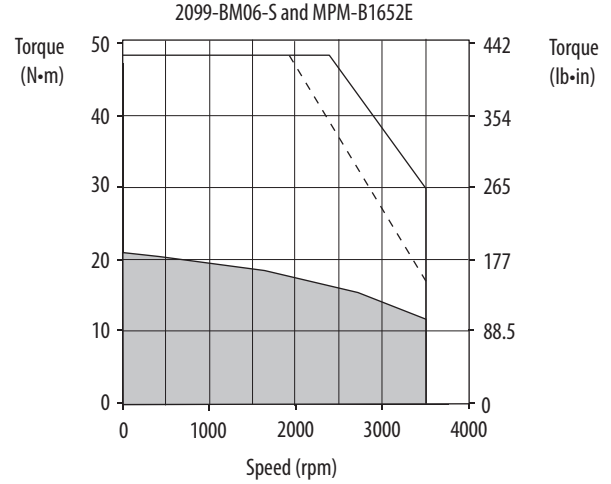
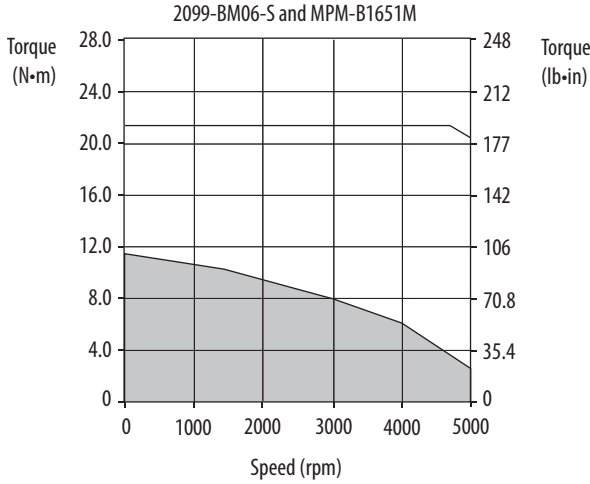
⁽¹⁾ Use low-profile connector kit (catalog number 2090-K6CK-D15M) with flying-lead cables on the drive end. Refer to Required Drive Accessories on [page 3](#). For cable configuration illustrations and feature descriptions, by catalog number, refer to Kinetix 2090 Motor/Actuator Cables Overview beginning on [page 9](#). Motor-end connector kits, and panel-mounted breakout components (drive end), are available for motor power/brake and feedback cables. Refer to Kinetix 2090 Motor/Actuator Cables Overview on [page 9](#). Cable length xx is in meters. Refer to the Kinetix Motion Accessories Technical Data, publication [KNX-TD004](#), for standard cable lengths.

Kinetix MPM Motor Performance Specifications with Kinetix 7000 (400V-class) Drives

Rotary Motor	Speed, base rpm	Speed, max rpm	System Continuous Stall Current A 0-pk	System Continuous Stall Torque N·m (lb·in)	System Peak Stall Current A 0-pk	System Peak Stall Torque N·m (lb·in)	Motor Rated Output kW	Kinetix 7000 400V-class Drives
MPM-B1651M	4500	5000	22.46	11.3 (100)	56.8	21.4 (189)	2.50	2099-BM06-S
MPM-B1652E	2250	3500	20.94	21.1 (187)	60.5	48.0 (425)	4.30	2099-BM06-S
MPM-B1652F	3000	4500	28.74	21.1 (187)	84.1	45.0 (398)	4.30	2099-BM06-S
MPM-B1653C	1500	2500	20.05	26.7 (236)	59.2	67.7 (599)	4.60	2099-BM06-S
MPM-B1653E	2250	3500	27.0	26.8 (237)	72.9	62.0 (549)	5.10	2099-BM06-S
MPM-B1653F	3000	4000	34.94	31.0 (274)	94.3	56.1 (496)	5.10	2099-BM06-S
MPM-B2152C	1500	2500	27.40	36.7 (325)	55.4	72.2 (639)	5.60	2099-BM06-S
MPM-B2152F	3000	4500	43.54	34.1 (302)	96.0	70.8 (626)	5.90	2099-BM06-S
					98.0	72.2 (639)		2099-BM07-S
MPM-B2152M	4500	5000	44.58	34.1 (302)	76.3	52.9 (468)	5.90	2099-BM06-S
MPM-B2153B	1250	2000	24.06	48.0 (425)	60.0	101 (895)	6.80	2099-BM06-S
MPM-B2153E	2250	3000	39.63	47.9 (424)	96.0	98.8 (468)	7.20	2099-BM06-S
					98.6	101 (895)		2099-BM07-S
MPM-B2153F	3000	3800	43.86	45.6 (403)	96.0	96.6 (855)	7.20	2099-BM06-S
					98.4	98.9 (875)		2099-BM07-S
MPM-B2154B	1250	2000	35.46	62.7 (555)	96.0	151 (1336)	6.90	2099-BM06-S
					98.0	154 (1363)		2099-BM07-S
MPM-B2154E	2250	3000	43.68	55.9 (495)	96.0	110 (973)	7.50	2099-BM06-S
					98.3	112 (991)		2099-BM07-S
MPM-B2154F	3000	3300	44.40	56.2 (497)	83.6	87.9 (778)	7.50	2099-BM06-S

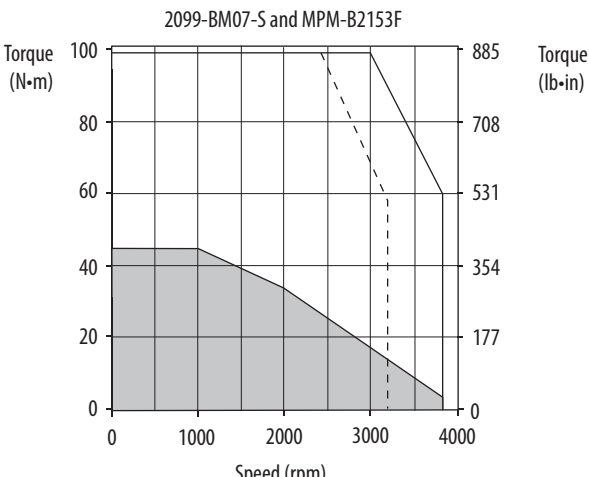
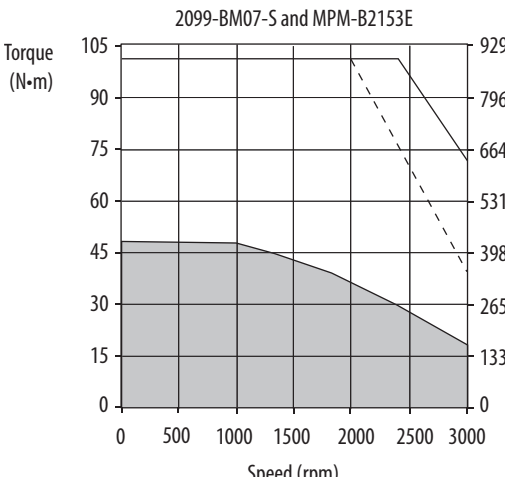
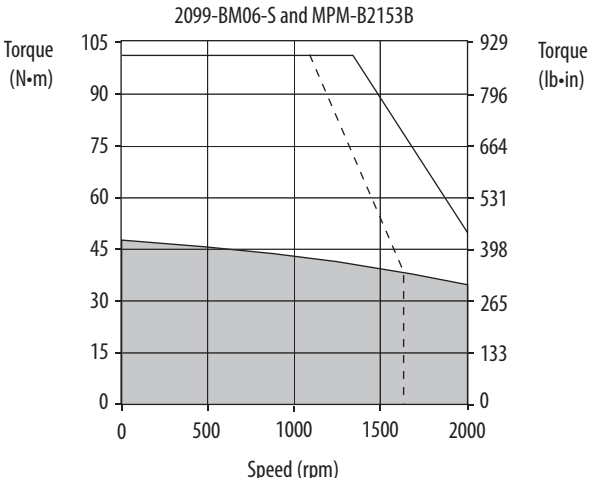
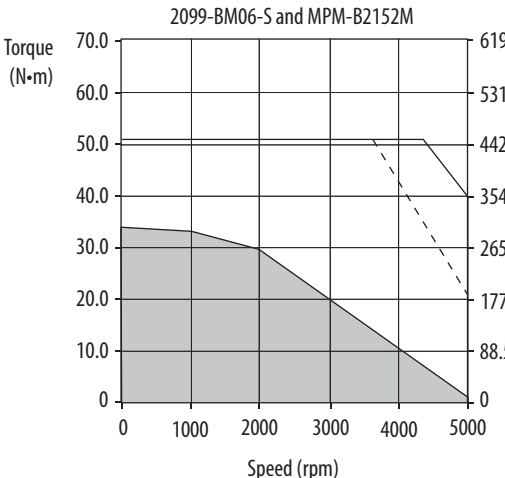
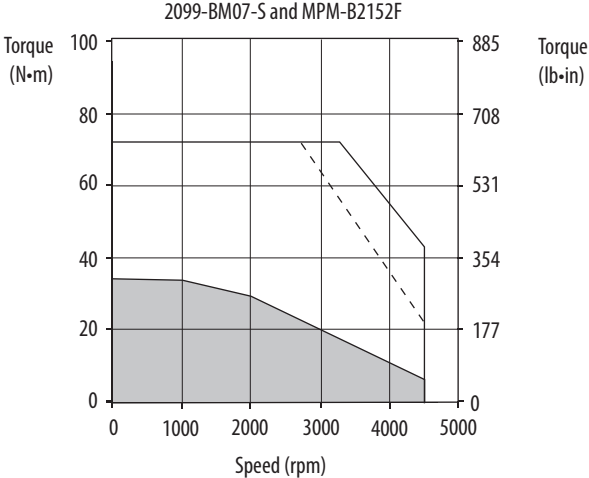
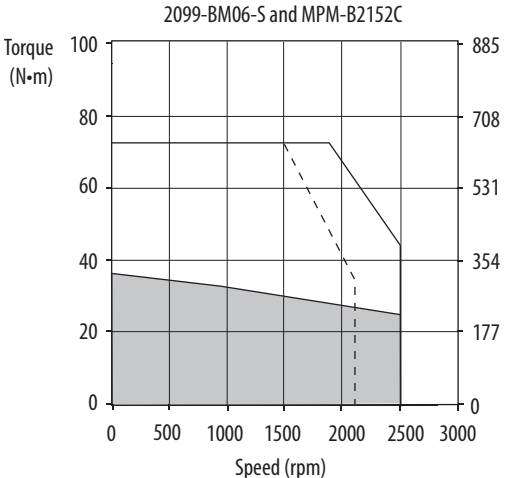
Performance specification data and curves reflect nominal system performance of a typical system with motor at 40 °C (104 °F) and drive at 50 °C (122 °F) ambient and rated line voltage. For additional information on ambient and line conditions, refer to Motion Analyzer software, version 4.7 or later.

Kinetix 7000 (400V-class) Drives/Kinetix MPM Medium Inertia Motor Curves



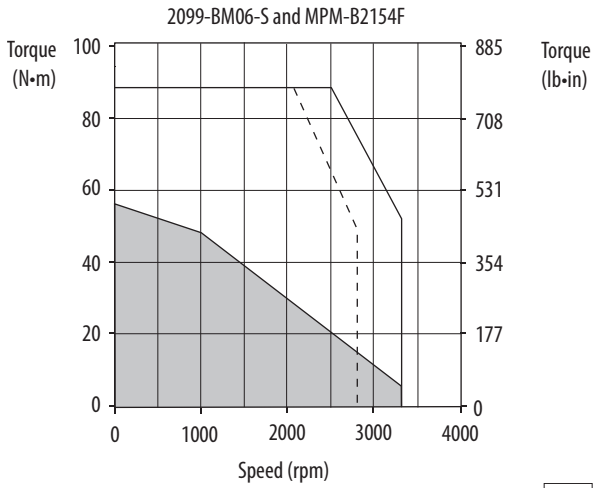
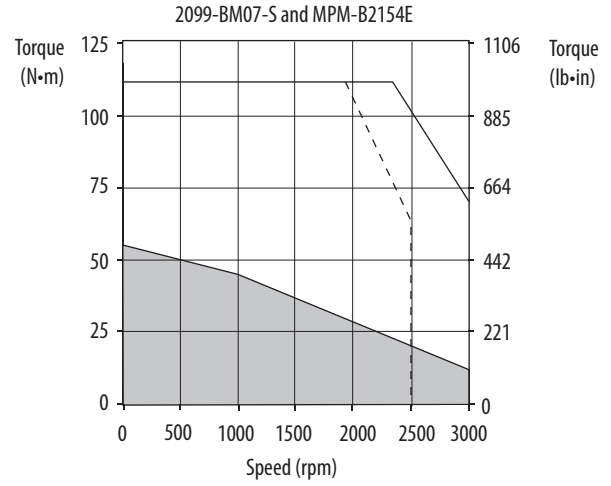
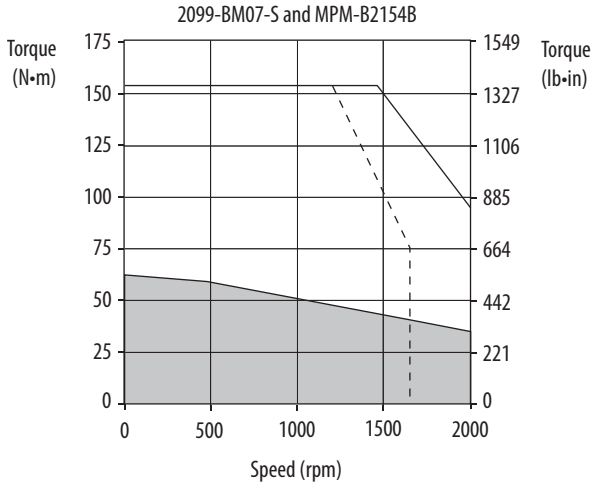
- = Intermittent operating region
- = Continuous operating region
- = Drive operation with 400V AC (rms) input voltage

Kinetix 7000 (400V-class) Drives/Kinetix MPM Medium Inertia Motor Curves (continued)



= Intermittent operating region
 = Continuous operating region
 = Drive operation with 400V AC (rms) input voltage

Kinetix 7000 (400V-class) Drives/Kinetix MPM Medium Inertia Motor Curves (continued)



- = Intermittent operating region
- = Continuous operating region
- = Drive operation with 400V AC (rms) input voltage

Kinetix 7000 (400V-class) Drives with Kinetix RDB Motors

This section provides system combination information for the Kinetix 7000 (400V-class) drives when matched with Kinetix RDB motors. Included are motor power/brake and feedback cable catalog numbers, system performance specifications, and the optimum torque/speed curves.

Kinetix RDB Motor Cable Combinations

Motor Cat. No. (400V-class)	Motor Power/Brake Cable	Motor Feedback Cable ⁽¹⁾
RDB-B2152C	2090-CPWM7DF-12AAxx (standard, non-flex)	2090-XXNFMF-Sxx (standard, non-flex) 2090-CFBM7DF-CDAFxx (continuous-flex) Absolute High-resolution Feedback
RDB-B2153C, RDB-B29036	2090-CPWM7DF-10AAxx (standard, non-flex) 2090-CPWM7DF-10AFxx (continuous-flex)	
RDB-B29029, RDB-B41016, RDB-B41024	2090-CPWM7DF-08AAxx (standard, non-flex) 2090-CPWM7DF-08AFxx (continuous-flex)	
RDB-B29039, RDB-B41018, RDB-B41026, RDB-B41035	2090-CPBM7DF-06AAxx (standard, non-flex)	

⁽¹⁾ Use low-profile feedback module (catalog number 2090-K7CK-KENDAT). Refer to Required Drive Accessories on [page 3](#).

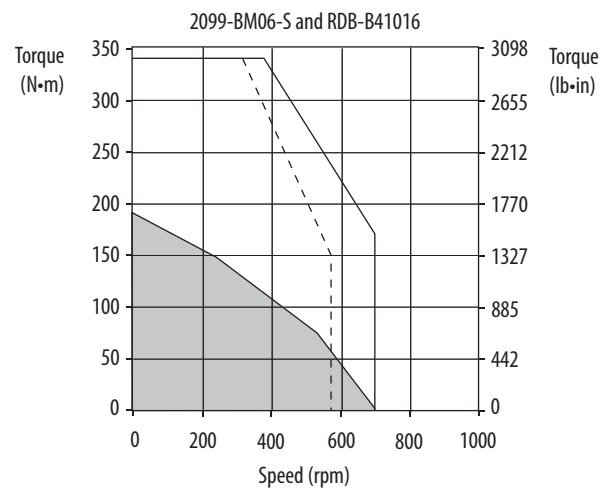
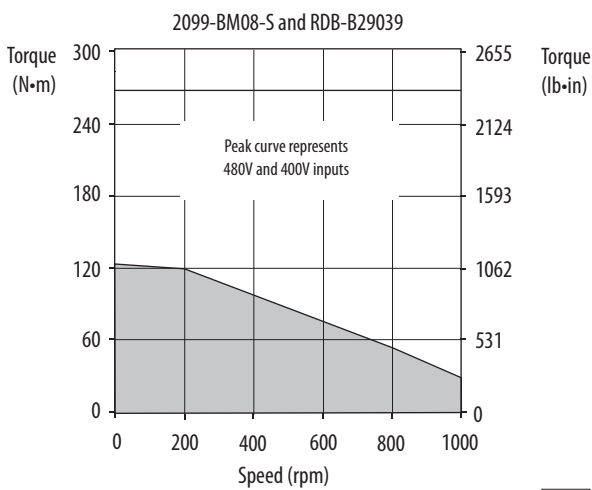
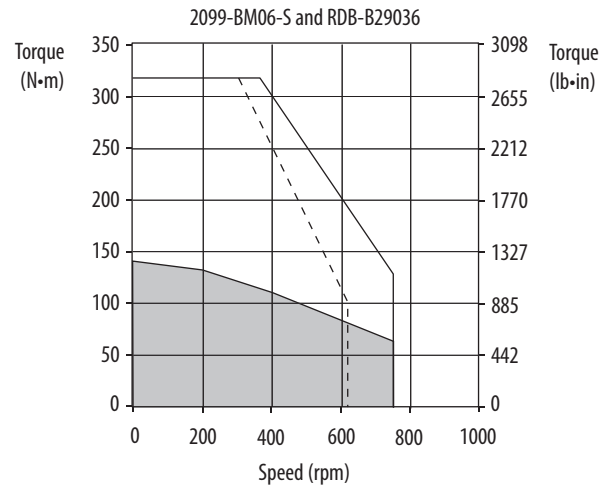
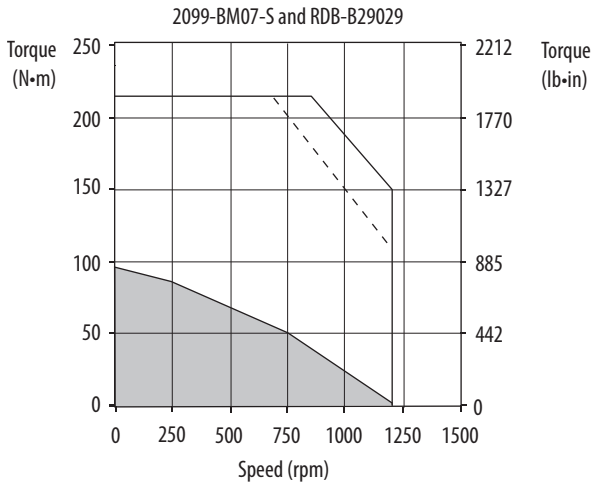
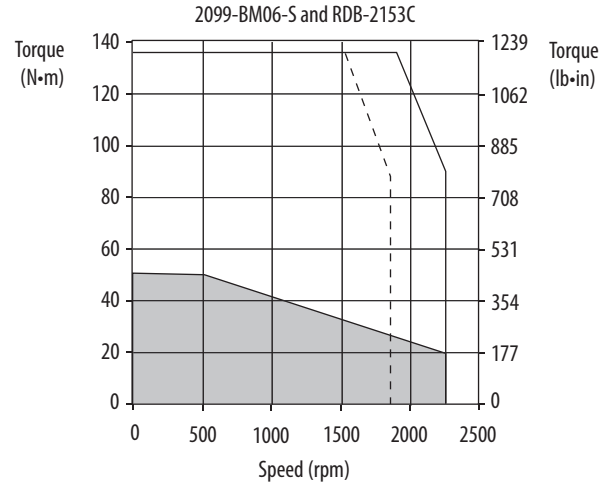
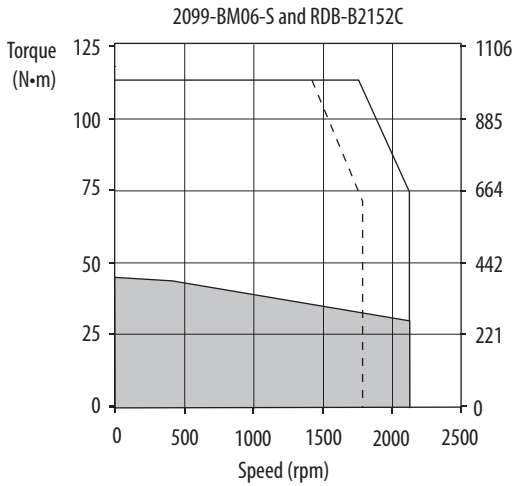
For cable configuration illustrations and feature descriptions, by catalog number, refer to Kinetix 2090 Motor/Actuator Cables Overview beginning on [page 9](#). Motor-end connector kits (drive end) are available for motor power/brake and feedback cables. Refer to Kinetix 2090 Motor/Actuator Cables Overview on [page 9](#). Cable length xx is in meters. Refer to the Kinetix Motion Accessories Technical Data, publication [KNX-TD004](#), for standard cable lengths.

Kinetix RDB Motor Performance Specifications with Kinetix 7000 (400V-class) Drives

Rotary Motor	Speed, base rpm	Speed, max rpm	System Continuous Stall Current A 0-pk	System Continuous Stall Torque N•m (lb•in)	System Peak Stall Current A 0-pk	System Peak Stall Torque N•m (lb•in)	Motor Rated Output kW	Kinetix 7000 (400V-class) Drives
RDB-B2152C	1500	2125	23.5	43.4 (384)	63.2	111 (982)	6.41	2099-BM06-S
RDB-B2153C	1500	2250	29.4	51.5 (456)	82.6	137 (1212)	5.87	2099-BM06-S
RDB-B29029	750	1200	36.2	97.5 (863)	96.0	193 (1708)	4.05	2099-BM06-S
					111	214 (1894)		2099-BM07-S
RDB-B29036	375	750	26.0	140 (1239)	84.9	318 (2814)	5.49	2099-BM06-S
RDB-B29039	750	1000	52.7	122 (1080)	147	268 (2372)	4.41	2099-BM08-S
RDB-B41016	375	700	33.2	183 (1619)	95.5	339 (3000)	4.83	2099-BM06-S
RDB-B41018	625	700	51.3	183 (1619)	113	299 (2646)	4.83	2099-BM07-S
					140	339 (3000)		2099-BM08-S
RDB-B41024	200	365	31.5	330 (2929)	95.5	690 (6107)	7.29	2099-BM06-S
RDB-B41026	375	600	52.0	308 (2726)	147	626 (5540)	7.29	2099-BM08-S
					218	688 (6089)		2099-BM09-S
RDB-B41035	250	490	52.6	425 (3761)	147	897 (7939)	8.69	2099-BM08-S
					218	1050 (9293)		2099-BM09-S

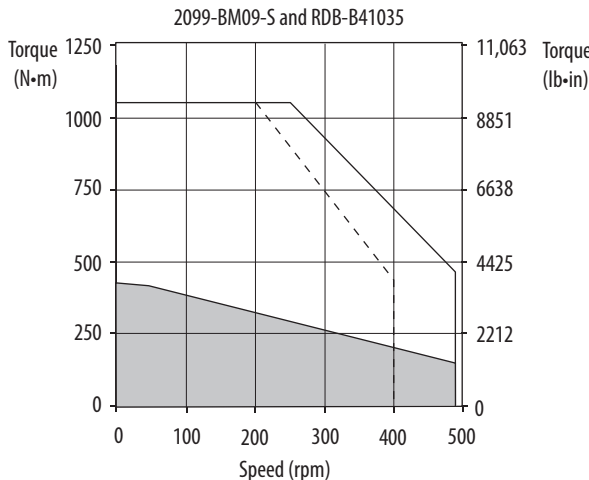
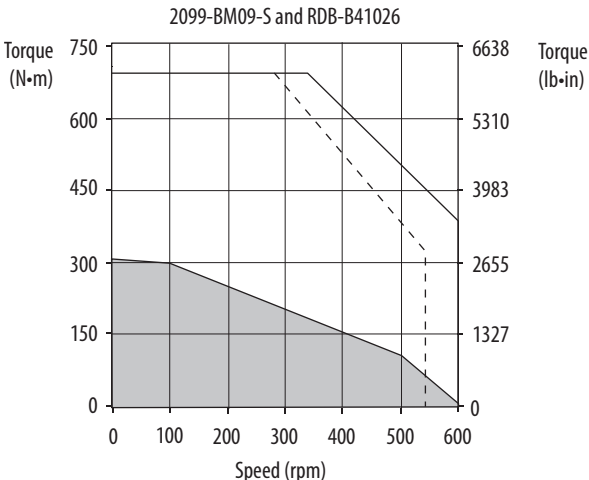
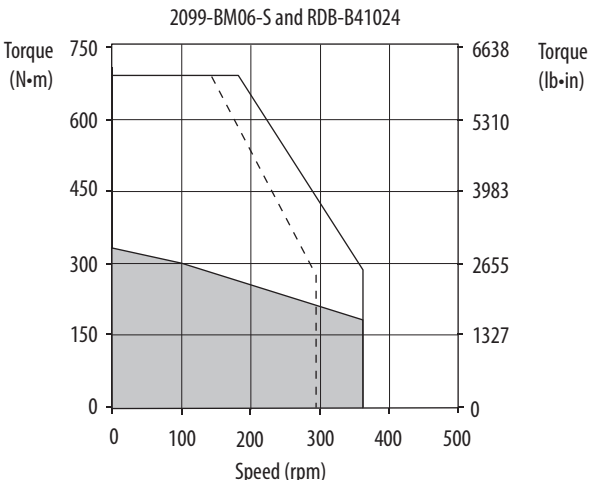
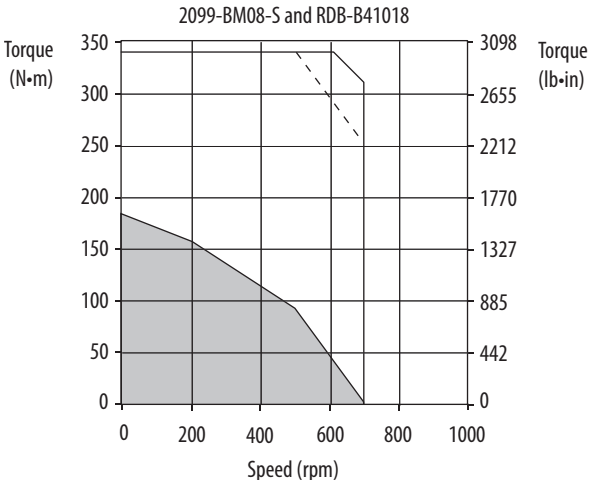
Performance specification data and curves reflect nominal system performance of a typical system with motor at 40 °C (104 °F) and drive at 50 °C (122 °F) ambient and rated line voltage. For additional information on ambient and line conditions, refer to Motion Analyzer software, version 4.7 or later.

Kinetix 7000 (400V-class) Drives with Kinetix RDB Motor Curves



- = Intermittent operating region
- = Continuous operating region
- = Drive operation with 400V AC (rms) input voltage

Kinetix 7000 (400V-class) Drives with Kinetix RDB Motor Curves (continued)



- = Intermittent operating region
- = Continuous operating region
- = Drive operation with 400V AC (rms) input voltage

Additional Resources

These documents contain additional information concerning related products from Rockwell Automation.

Resource	Description
Kinetix Motion Control Selection Guide, publication KNX-SG001	Overview of Kinetix servo drives, motors, actuators, and motion accessories designed to help make initial decisions for the motion control products best suited for your system requirements.
Kinetix Rotary Motion Specifications, publication KNX-TD001	Product specifications for Kinetix MPL and MPM, Kinetix RDB, Kinetix MMA, and Kinetix HPK rotary motors.
Kinetix Linear Motion Specifications, publication KNX-TD002	Product specifications for Kinetix MPAS and MPMA linear stages, Kinetix MPAR, MPAL, and TLAR electric cylinders, and Kinetix LDC and LDL linear motors.
Kinetix Servo Drives Specifications, publication KNX-TD003	Product specifications for Kinetix Integrated Motion over the EtherNet/IP network, Integrated Motion over Sercos interface, EtherNet/IP networking, and component servo drive families.
Kinetix Motion Accessories Specifications, publication KNX-TD004	Product specifications for Kinetix 2090 motor and interface cables, low-profile connector kits, drive power components, and other servo drive accessory items.
Kinetix 6000 and Kinetix 6200/6500 Drive Systems Design Guide, publication KNX-RM003	System design guide to determine and select the required (drive specific) drive module, power accessory, connector kit, motor cable, and interface cable catalog numbers for your drive and motor/actuator motion control system. Included are system performance specifications and torque/speed curves (rotary motion) and force/velocity curves (linear motion) for your motion application.
Kinetix 300/350 Drive Systems Design Guide, publication KNX-RM004	
Kinetix 3 Drive Systems Design Guide, publication KNX-RM005	
Kinetix 2000 Drive Systems Design Guide, publication KNX-RM006	
Ultra™ 3000 Drive Systems Design Guide, publication KNX-RM008	
Kinetix 6200 and Kinetix 6500 Safe Speed Monitoring Servo Drives Safety Reference Manual, publication 2094-RM001	Information on wiring, configuring, and troubleshooting the safe-speed features of your Kinetix 6200 and Kinetix 6500 drives.
Kinetix 6200 and Kinetix 6500 Safe Torque-off Servo Drives Safety Reference Manual, publication 2094-RM002	Information on wiring, configuring, and troubleshooting the safe torque-off features of your Kinetix 6200 and Kinetix 6500 drives.
Kinetix Safe-off Feature Safety Reference Manual, publication GMC-RM002	Information on wiring and troubleshooting your Kinetix 6000 and Kinetix 7000 servo drives with the safe-off feature.
System Design for Control of Electrical Noise Reference Manual, publication GMC-RM001	Information, examples, and techniques designed to minimize system failures caused by electrical noise.
EMC Noise Management DVD, publication GMC-SP004	
ControlLogix Selection Guide, publication 1756-SG001	Information to determine which ControlLogix controller fits your application and the product specifications to help design a ControlLogix system and select the appropriate components.
CompactLogix Selection Guide, publication 1769-SG001	Information to determine which CompactLogix™ controller fits your application and the product specifications to help design a CompactLogix system and select the appropriate components.
Integrated Architecture Recommended Literature Reference Manual, publication IASIMP-RM001	This document provides lists of technical publications for Integrated Architecture™ products. These lists are not all-inclusive, but they do include the most-commonly accessed publications for the related products.
Industrial Ethernet Media Brochure, publication 1585-BR001	Information to determine which Bulletin 1585 Ethernet cable fits your application and the product specifications to help select the appropriate components.
Motion Analyzer software download from http://www.ab.com/motion/software/analyzer.html	Comprehensive motion application sizing tool used for analysis, optimization, selection, and validation of your Kinetix Motion Control system.
Rockwell Automation Configuration and Selection Tools, website http://www.ab.com	Online product selection and system configuration tools, including AutoCad (DXF) drawings.

You can view or download publications at rok.auto/literature.

Notes:

Rockwell Automation Support

Use these resources to access support information.

Technical Support Center	Find help with how-to videos, FAQs, chat, user forums, and product notification updates.	rok.auto/support
Knowledgebase	Access Knowledgebase articles.	rok.auto/knowledgebase
Local Technical Support Phone Numbers	Locate the telephone number for your country.	rok.auto/phonesupport
Literature Library	Find installation instructions, manuals, brochures, and technical data publications.	rok.auto/literature
Product Compatibility and Download Center (PCDC)	Download firmware, associated files (such as AOP, EDS, and DTM), and access product release notes.	rok.auto/pcdc

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Rockwell Automation maintains current product environmental compliance information on its website at rok.auto/pec.

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