

Kinetix 6000 Servo Drive Components

Kinetix 6000 servo drive systems consist of these required components:

- One integrated axis module (IAM or leader IAM)
- Up to seven axis modules
- One power rail
- One to eight rotary motors, linear motors, or linear actuators
- One to eight motor power and feedback cables
- Low-profile connector kits (required for flying-lead feedback cables)
- Two to nine sercos fiber-optic cables

Kinetix 6000 systems can also include one or more integrated axis modules used as a follower IAM (and associated axis modules, power rails, motors, cables, and connectors as required for the application).

Kinetix 6000M integrated drive-motor (IDM) systems are an option with Kinetix 6000 servo drives

- One Kinetix 6000M IDM power interface module (IPIM) per IDM system
- As many as 4 IPIM modules on the Bulletin 2094 power rail
- As many as 16 integrated drive-motor (IDM) units connect to each IPIM module

These components are optional:

- One shunt module, 2094-BSP2 with optional Bulletin 1394 external passive-shunt resistor
- 2094-PRF, Slot-filler modules
- Bulletin 2094 Line Interface Module (LIM)
- Bulletin 2090 Resistive Brake Module (RBM)
- Bulletin 1336 external active shunt module (dynamic brake)
- 2090-XXLF AC Line Filters (required for CE)

For detailed Kinetix 6000 drive system requirements, refer to the Kinetix 6000 and Kinetix 6200/6500 Drive Systems Design Guide, publication [GMC-RM003](#).

Kinetix 6000 Servo Drive Selection

Drive Module	Drive Cat. No.	Continuous Output Ratings	
		Converter (A_{DC})	Inverter (A, 0-pk)
Integrated axis module (IAM), 200V-class	2094-AC05-MP5-S	3 kW, 10 A	1.2 kW, 5 A
	2094-AC05-M01-S	3 kW, 10 A	1.9 kW, 9 A
	2094-AC09-M02-S	6 kW, 19 A	3.4 kW, 15 A
	2094-AC16-M03-S	11.3 kW, 36 A	5.5 kW, 25 A
	2094-AC32-M05-S	22.5 kW, 71 A	11.0 kW, 49 A
Integrated axis module (IAM), 400V-class	2094-BC01-MP5-S	6 kW, 9 A	1.8 kW, 4.0 A
	2094-BC01-M01-S	6 kW, 9 A	3.9 kW, 8.6 A
	2094-BC02-M02-S	15 kW, 23 A	6.6 kW, 14.6 A
	2094-BC04-M03-S	28 kW, 42 A	13.5 kW, 30 A
	2094-BC07-M05-S	45 kW, 68 A	22.0 kW, 49 A
Axis module (AM), 200V-class	2094-AMP5-S	N/A	1.2 kW, 5 A
	2094-AM01-S		1.9 kW, 9 A
	2094-AM02-S		3.4 kW, 15 A
	2094-AM03-S		5.5 kW, 25 A
	2094-AM05-S		11.0 kW, 49 A
Axis module (AM), 400V-class	2094-BMP5-S	N/A	1.8 kW, 4.0 A
	2094-BM01-S		3.9 kW, 8.6 A
	2094-BM02-S		6.6 kW, 14.6 A
	2094-BM03-S		13.5 kW, 30 A
	2094-BM05-S		22.0 kW, 49 A
2094 power rail	2094-PR5x	Available for 1, 2, 3, 4, 5, 7, and 8-axis systems	
2094 IDM power interface module	2094-SEPM-B24-S	400V-class, 24 A rms, 15 kW, sercos, supports up to 16 integrated drive-motor units	
2094 shunt module	2094-BSP2	200/400V-class, 200 W shunt module (mounts on power rail)	
2094 slot-filler module	2094-PRF	200/400V-class, covers unused slots on power rail	

For Kinetix 6000 drive module specifications not included in this publication, refer to the Kinetix Servo Drives Technical Data, publication [GMC-TD003](#).

Kinetix 6200 Drive Component Compatibility

The 2094-BCxx-Mxx-M and 2094-BMxx-M power modules contain the same power structure as the 2094-BCxx-Mxx-S and 2094-BMxx-S drives. Because of this, the 2094-BSP2 shunt module, 2094-PRF slot-filler module, and 2094-PR5x power rails are all supported by both drive families.

In addition, 2094-BMxx-M AM power modules with sercos interface are supported on power rails with a 2094-BCxx-Mxx-S IAM module. Conversely, 2094-BMxx-S AM drives are supported on power rails with a 2094-BCxx-Mxx-M IAM power module with sercos interface.

IMPORTANT Kinetix 6500 EtherNet/IP control modules (catalog numbers 2094-EN02D-M01-Sx) are not compatible with IAM/AM modules on the same Bulletin 2094 power rail where sercos interface is used.

IAM/AM Module Compatibility

IAM Module	Control Module	2094-BMxx-S Kinetix 6000 AM Module	2094-BMxx-M AM Power Modules	
			2094-SE02F-M00-Sx Kinetix 6200 Control Module	2094-EN02D-M01-Sx Kinetix 6500 Control Module
2094-BCxx-Mxx-S (series B and C)	N/A	Fully compatible	Fully compatible	Not compatible
2094-BCxx-Mxx-M (IAM power module)	2094-SE02F-M00-Sx Sercos interface			
	2094-EN02D-M01-Sx EtherNet/IP network	Not compatible	Not compatible	Fully compatible

For more information on the Kinetix 6200 modular servo drives, catalog numbers 2094-BCxx-Mxx-M, 2094-BMxx-M, and 2094-SE02F-M00-Sx, refer to Kinetix 6200 and Kinetix 6500 Modular Servo Drives on [page 99](#).

Kinetix 6000M Integrated Drive-Motor System Compatibility

Bulletin 2094 power rails with Kinetix 6000 (series B) or Kinetix 6200 drives are compatible with Kinetix 6000M integrated drive-motor (IDM) systems. The integrated drive-motor power interface module (IPIM) mounts to the power rail and connects to as many as 16 IDM units.

IMPORTANT Kinetix 6500 EtherNet/IP control modules (catalog numbers 2094-EN02D-M01-Sx) are not compatible with Kinetix 6000M integrated drive-motor systems.

IAM Module Compatibility

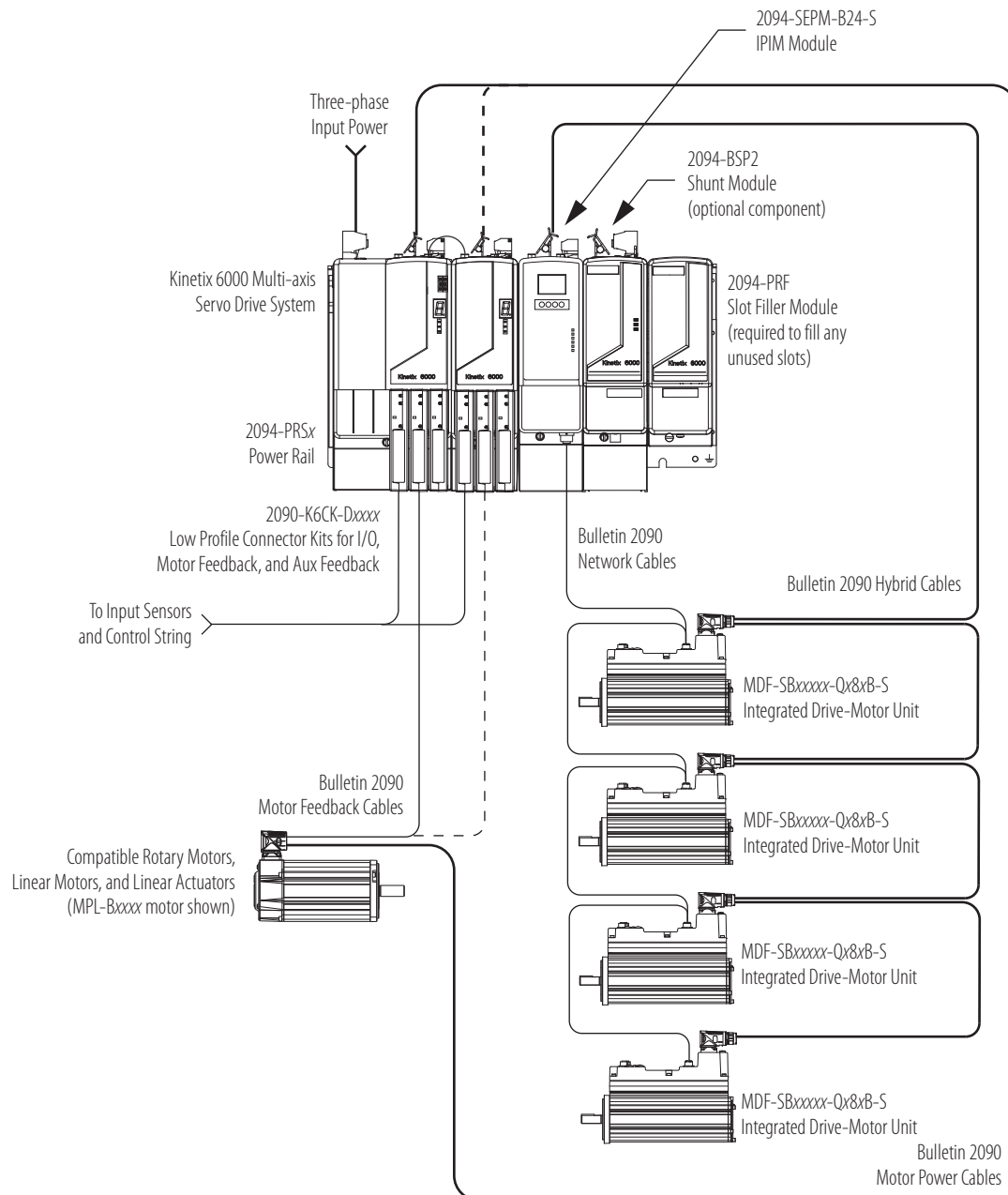
IAM Module	Control Module	2094-SEPM-B24-S IDM Power Interface Module (IPIM)
2094-BCxx-Mxx-S (series B and C)	N/A	Fully compatible
2094-BCxx-Mxx-M (IAM power module)	2094-SE02F-M00-Sx sercos interface	
	2094-EN02D-M01-Sx EtherNet/IP network	Not compatible

For more information on the Kinetix 6000M integrated drive-motor systems, refer to Typical Kinetix 6000M Integrated Drive-Motor Configuration on [page 127](#).

Typical Kinetix 6000M Integrated Drive-Motor Configuration

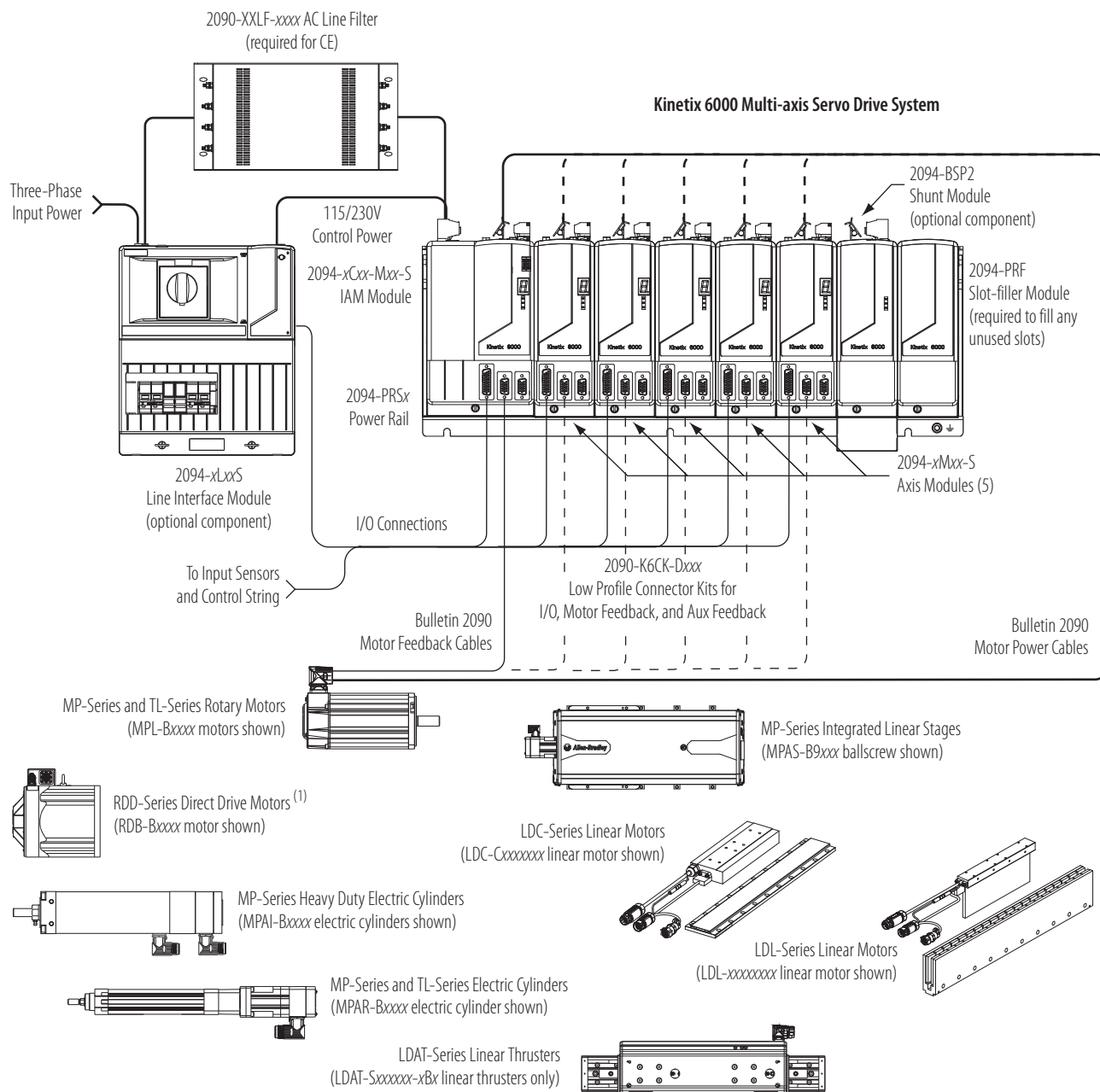
This configuration illustrates the use of Kinetix 6000 servo drives with the Kinetix 6000M integrated drive-motor (IDM) system. The IDM power interface module (IPIM) is included in the fiber-optic sercos ring configuration along with the axis modules. Refer to Typical Communication Configurations on [page 131](#) for examples.

Modular Drive System (with Kinetix 6000M IDM system)



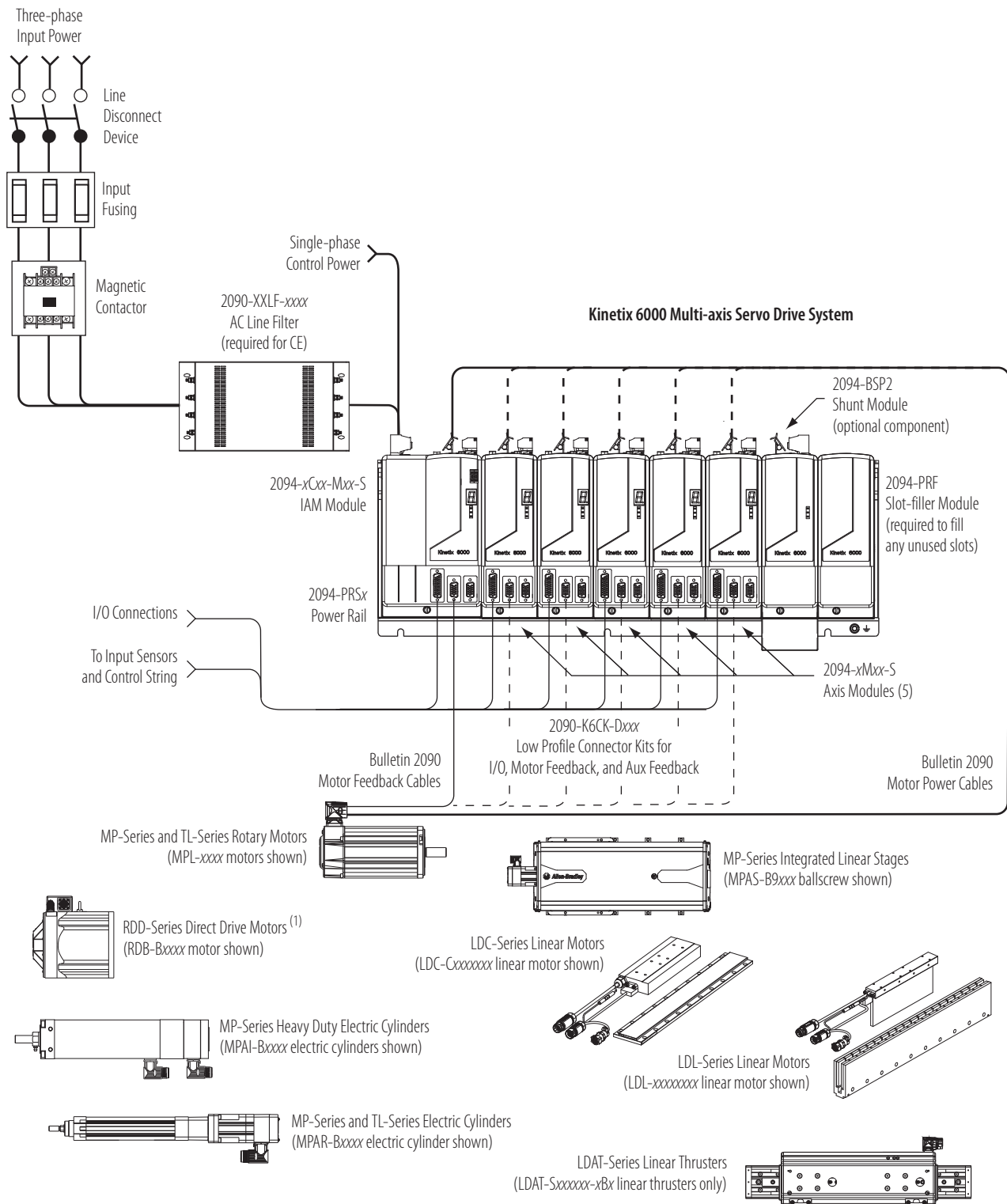
Typical Hardware Configurations

Kinetix 6000 System (with LIM module)



(1) Requires 2090-K6CK-KENDAT connector kit for motor feedback connections.

Kinetix 6000 System (without LIM module)



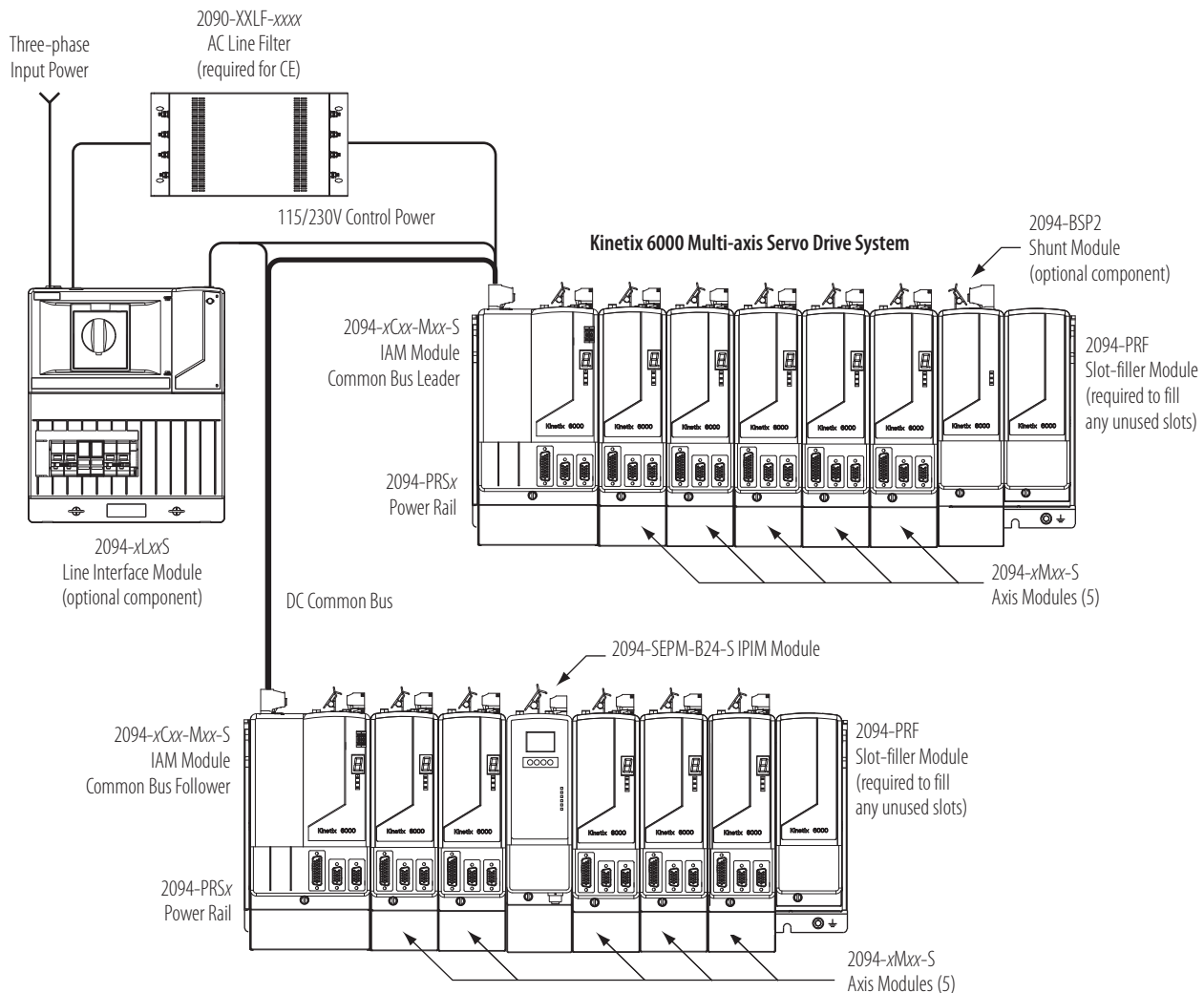
(1) Requires 2090-K6CK-KENDAT connector kit for motor feedback connections.

In this system configuration, the leader IAM module is connected to the follower IAM module via the DC common bus. When planning your panel layout, you must calculate the total bus capacitance of your DC common bus system to make sure that the leader IAM module is sized sufficiently to pre-charge the entire system. Refer to the Kinetix 6000 Servo Drive User Manual, publication [2094-UM001](#), when making this calculation.

IMPORTANT

If total bus capacitance of your system exceeds the leader IAM module pre-charge rating, the IAM module seven-segment status displays error code E90 (pre-charge timeout fault) if input power is applied. To correct this condition, you must replace the leader IAM module with a larger module or decrease the total bus capacitance by removing axis modules.

Kinetix 6000 System (DC common bus)



Motors and other details common to both three-phase AC and DC common-bus configurations are removed.

Rotary Motion Performance Specifications

These rotary motor families are compatible with Kinetix 6000 servo drives.

Rotary Motor Family	Page
MP-Series (Bulletin MPL) low-inertia motors	132
MP-Series (Bulletin MPM) medium-inertia motors	136
MP-Series (Bulletin MPF) food-grade motors	139
Kinetix 6000M (Bulletin MDF) integrated drive-motor (food-grade) motors	140
MP-Series (Bulletin MPS) stainless-steel motors	140
MP-Series (Bulletin RDB) direct-drive motors	141
TL-Series (Bulletin TLY) low-inertia motors	142

For Kinetix 6000 drive system combinations that include cable catalog number selection and torque/speed curves, refer to the Kinetix 6000 and Kinetix 6200/6500 Drive Systems Design Guide, publication [GMC-RM003](#).

IMPORTANT These system combinations do not include all possible motor/drive combinations. Refer to Motion Analyzer software to verify compatibility. To access Motion Analyzer software, go to: <https://motionanalyzer.rockwellautomation.com>.

Bulletin MPL Motor Performance Specifications with Kinetix 6000 Drives

Performance Specifications with Kinetix 6000 (200V-class) Drives

Motor Cat. No.	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 6000 200V-class Drives
MPL-A1510V	8000	1.05	0.26 (2.3)	3.40	0.77 (6.8)	0.16	2094-AMP5-S
MPL-A1520U	7000	1.80	0.49 (4.3)	6.10	1.58 (13.9)	0.27	2094-AMP5-S
MPL-A1530U	7000	2.82	0.90 (8.0)	10.1	2.82 (24.9)	0.39	2094-AMP5-S
MPL-A210V	8000	3.09	0.55 (4.8)	10.2	1.52 (13.4)	0.37	2094-AMP5-S
MPL-A220T	6000	4.54	1.61 (14.2)	10.5	3.45 (30.0)	0.62	2094-AMP5-S
				15.5	4.74 (41.9)		2094-AM01-S
MPL-A230P	5000	5.40	2.10 (18.6)	17.0	8.0 (70.8)	0.86	2094-AM01-S
				23.0	8.2 (73.0)		2094-AM02-S
MPL-A310F	3000	3.24	1.58 (14.0)	9.30	3.61 (31.9)	0.46	2094-AMP5-S
MPL-A310P	5000	4.91	1.58 (14.0)	10.5	2.90 (25.6)	0.73	2094-AMP5-S
				14.0	3.61 (31.9)		2094-AM01-S
MPL-A320H	3500	6.10	3.05 (27.0)	17.0	7.13 (63.0)	1.0	2094-AM01-S
				19.3	7.91 (70.0)		2094-AM02-S
MPL-A320P	5000	8.50	2.88 (25.5)	17.0	5.07 (44.8)	1.3	2094-AM01-S
		9.00	3.05 (27.0)	29.5	7.91 (70.0)		2094-AM02-S
MPL-A330P	5000	12.0	4.18 (37.0)	30.0	9.10 (80.5)	1.8	2094-AM02-S
				38.0	11.1 (98.2)		2094-AM03-S
MPL-A420P	5000	12.9	4.79 (42.3)	30.0	9.67 (85.5)	2.0	2094-AM02-S
				46.0	13.6 (119)		2094-AM03-S

Performance Specifications with Kinetix 6000 (200V-class) Drives (continued)

Motor Cat. No.	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 6000 200V-class Drives
MPL-A430H	3500	12.2	6.21 (55.0)	30.0	13.9 (123)	1.8	2094-AM02-S
				45.0	19.8 (175)		2094-AM03-S
MPL-A430P	5000	15.0	5.35 (47.3)	30.0	9.99 (88.3)	2.2	2094-AM02-S
		16.80	5.99 (52.9)	49.0	15.4 (136)		2094-AM03-S
				67.0	19.8 (175)		2094-AM05-S
MPL-A4530F	2800	13.40	8.36 (74.0)	30.0	15.8 (139)	1.9	2094-AM02-S
				42.0	20.3 (179)		2094-AM03-S
MPL-A4530K	4000	19.50	8.13 (71.9)	49.0	17.0 (150)	2.5	2094-AM03-S
				62.0	20.3 (179)		2094-AM05-S
MPL-A4540C	1500	8.50	9.15 (80.9)	17.0	16.9 (150)	1.5	2094-AM01-S
		9.55	10.30 (91.1)	29.0	27.1 (239)		2094-AM02-S
MPL-A4540F	3000	18.40	10.19 (90.1)	49.0	23.6 (208)	2.6	2094-AM03-S
				58.0	27.1 (239)		2094-AM05-S
MPL-A4560F	3000	22.0	14.1 (125)	49.0	27.0 (239)	3.0	2094-AM03-S
				66.0	34.4 (305)		2094-AM05-S
MPL-A520K	4000	15.0	10.77 (95.2)	49.0	19.3 (171)	3.5	2094-AM03-S
				65.0	24.2 (214)		2094-AM05-S
MPL-A540K	4000	41.5	19.42 (171)	73.4	31.3 (277)	5.5	2094-AM05-S
MPL-A560F	3000	42.0	27.39 (242)	73.4	39.6 (350)	5.3	2094-AM05-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.

Bulletin MPM Motor Performance Specifications with Kinetix 6000 Drives

Performance Specifications with Kinetix 6000 (200V-class) Drives

Motor Cat. No.	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 6000 200V-class Drives
MPM-A1151M	4500	6000	7.65	2.3 (20.3)	30.0	6.5 (57.5)	0.90	2094-AM02-S
					30.5	6.6 (58.4)		2094-AM03-S
MPM-A1152F	3000	5000	11.93	4.7 (41.6)	30.0	9.9 (87.6)	1.40	2094-AM02-S
					44.8	13.5 (119)		2094-AM03-S
MPM-A1153F	3000	5000	16.18	6.0 (53.1)	30.0	10.7 (94.7)	1.45	2094-AM02-S
				6.5 (57.5)	49.0	16.1 (142)		2094-AM03-S
MPM-A1302F	3000	4500	17.28	6.6 (58.4)	49.0	13.2 (117)	1.65	2094-AM03-S
					50.2	13.5 (119)		2094-AM05-S
MPM-A1304F	3000	4000	19.65	7.6 (67.2)	30.0	13.2 (117)	2.20	2094-AM02-S
				9.2 (81.4)	48.3	19.3 (171)		2094-AM03-S
MPM-A1651F	3000	5000	30.96	9.3 (82.3)	49.0	15.2 (134)	2.50	2094-AM03-S
				10.7 (94.7)	73.4	20.3 (179)		2094-AM05-S
MPM-A1652F	3000	4000	33.54	11.0 (97.3)	49.0	19.7 (174)	4.03	2094-AM03-S
				13.4 (119)	73.4	27.7 (245)		2094-AM05-S
MPM-A1653F	3000	4000	42.4	11.7 (103)	49.0	21.1 (187)	5.10	2094-AM03-S
				18.6 (165)	73.4	29.6 (262)		2094-AM05-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.

Bulletin MPF Motor Performance Specifications with Kinetix 6000 Drives

Performance Specifications with Kinetix 6000 (200V-class) Drives

Motor Cat. No.	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 6000 200V-class Drives
MPF-A310P	5000	4.50	1.58 (14.0)	10.5	2.91 (25.7)	0.73	2094-AMP5-S
				14.0	3.61 (31.9)		2094-AM01-S
MPF-A320H	3500	6.10	3.05 (27.0)	17.0	6.97 (61.6)	1.0	2094-AM01-S
				19.3	7.91 (70.0)		2094-AM02-S
MPF-A320P	5000	8.50	2.88 (25.5)	17.0	5.07 (44.8)	1.3	2094-AM01-S
		9.00	3.05 (27.0)	29.5	7.91 (70.0)		2094-AM02-S
MPF-A330P	5000	12.0	3.85 (34.0)	30.0	8.47 (74.9)	1.6	2094-AM02-S
				38.0	10.32 (91.2)		2094-AM03-S
MPF-A430H	3500	12.2	6.21 (55.0)	30.0	13.20 (117)	1.8	2094-AM02-S
				45.0	19.82 (175)		2094-AM03-S
MPF-A430P	5000	16.80	5.94 (52.5)	49.0	15.36 (136)	1.9	2094-AM03-S
				67.0	19.80 (175)		2094-AM05-S
MPF-A4530K	4000	19.50	8.08 (71.4)	49.0	17.01 (150)	2.3	2094-AM03-S
				62.0	20.30 (179)		2094-AM05-S
MPF-A4540F	3000	18.40	10.15 (89.7)	49.0	23.56 (208)	2.5	2094-AM03-S
				58.0	27.10 (239)		2094-AM05-S
MPF-A540K	4000	24.5	11.40 (100)	49.0	21.68 (192)	4.1	2094-AM03-S
		41.5	19.42 (171)	73.4	31.55 (279)		2094-AM05-S

Performance Specifications with Kinetix 6000 (400V-class) Drives

Motor Cat. No.	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 6000 400V-class Drives
MPF-B310P	5000	2.30	1.6 (14)	5.90	3.2 (28)	0.77	2094-BMP5-S @ 150%
				7.10	3.6 (32)		2094-BMP5-S @ 250%
MPF-B320P	5000	4.00	2.90 (26)	5.90	3.9 (34)	1.5	2094-BMP5-S @ 150%
		4.24	3.10 (27)	13.0	7.5 (66)		2094-BM01-S @ 150%
				14.0	7.8 (69)		2094-BM01-S @ 250%
MPF-B330P	5000	5.70	4.18 (37)	13.0	8.2 (72)	1.6	2094-BM01-S @ 150%
				19.0	11.1 (98)		2094-BM01-S @ 250%
MPF-B430P	5000	9.20	6.55 (58)	21.8	14.2 (125)	2.0	2094-BM02-S @ 150%
				32.0	19.8 (175)		2094-BM02-S @ 250%
MPF-B4530K	4000	9.90	8.25 (73)	21.8	15.4 (136)	2.4	2094-BM02-S @ 150%
				31.0	20.3 (179)		2094-BM02-S @ 250%
MPF-B4540F	3000	9.10	10.20 (90)	21.8	21.4 (189)	2.5	2094-BM02-S @ 150%
				29.0	27.1 (240)		2094-BM02-S @ 250%
MPF-B540K	4000	20.5	19.4 (171)	45.0	37.9 (335)	4.1	2094-BM03-S @ 150%
				60.0	48.6 (430)		2094-BM03-S @ 250%

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.

Bulletin MDF Integrated Drive-Motor Performance Specifications

Performance Specifications with Kinetix 6000M (non-brake) Motors

IDM Drive-Motor Cat. No.	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 6000M IPIM Module
MDF-SB1003P-xxx2x-S	5000	4.03	3.00 (26.5)	19.0	10.50 (92.9)	1.10	2094-SEPM-B24-S
MDF-SB1153H-xxx2x-S	3500	4.50	4.80 (42.5)	20.0	18.50 (164)	1.15	
MDF-SB1304F-xxx2x-S	3000	5.80	7.25 (64.2)	20.0	21.75 (192)	1.39	

Performance Specifications with Kinetix 6000M (brake) Motors

IDM Drive-Motor Cat. No.	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 6000M IPIM Module
MDF-SB1003P-xxx4x-S	5000	4.03	3.00 (26.5)	19.0	10.50 (92.9)	1.02	2094-SEPM-B24-S
MDF-SB1153H-xxx4x-S	3500	4.50	4.80 (42.5)	20.0	18.50 (164)	1.00	
MDF-SB1304F-xxx4x-S	3000	5.80	7.25 (64.2)	20.0	21.75 (192)	1.24	

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

Bulletin MPS Motor Performance Specifications with Kinetix 6000 Drives

Performance Specifications with Kinetix 6000 (200V-class) Drives

Motor Cat. No.	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 6000 200V-class Drives
MPS-A330P	5000	8.50	3.10 (27)	17.0	5.80 (51)	1.3	2094-AM01-S
		9.80	3.60 (32.0)	30.0	9.30 (82)		2094-AM02-S
				38.0	11.10 (98)		2094-AM03-S
MPS-A4540F	3000	14.4	8.1 (72)	30.0	15.9 (140)	1.4	2094-AM02-S
				49.0	24.2 (214)		2094-AM03-S
				56.0	27.1 (240)		2094-AM05-S

Performance Specifications with Kinetix 6000 (400V-class) Drives

Motor Cat. No.	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 6000 400V-class Drives
MPS-B330P	5000	4.9	3.60 (32)	13.0	8.2 (72.5)	1.3	2094-BM01-S @ 150%
				19.0	11.0 (97.2)		2094-BM01-S @ 250%
MPS-B4540F	3000	7.1	8.1 (72)	21.5	22.8 (202)	1.4	2094-BM01-S @ 250%
				21.8	23.2 (205)		2094-BM02-S @ 150%
				26.0	27.1 (240)		2094-BM02-S @ 250%
MPS-B560F	3000	17.0	21.5 (190)	45.0	49.2 (435)	3.5	2094-BM03-S @ 150%
				68.0	67.8 (600)		2094-BM03-S @ 250%

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.

Bulletin TLY Motor Performance Specifications with Kinetix 6000 Drives

Performance Specifications (non-brake) with Kinetix 6000 Drives

Motor Cat. No.	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 6000 200V-class Drives
TLY-A110T	6000	0.55	0.096 (0.85)	1.50	0.20 (1.75)	0.041	2094-AMP5-S
TLY-A120T		1.03	0.181 (1.60)	2.50	0.36 (3.20)	0.086	2094-AMP5-S
TLY-A130T		1.85	0.325 (2.88)	4.90	0.76 (6.70)	0.14	2094-AMP5-S
TLY-A220T		3.50	0.836 (7.40)	7.90	1.48 (13.1)	0.35	2094-AMP5-S
TLY-A230T		5.20	1.23 (10.9)	10.5	2.07 (18.3)	0.44	2094-AMP5-S
		5.50	1.30 (11.5)	15.5	3.05 (27.0)		2094-AM01-S
TLY-A2530P	5000	8.50	2.20 (19.5)	17.0	4.18 (37.0)	0.69	2094-AM01-S
		10.0	2.60 (23.0)	21.0	5.20 (46.0)		2094-AM02-S
TLY-A2540P		8.50	2.48 (22.0)	17.0	4.97 (44.0)	0.86	2094-AM01-S
		10.0	2.94 (26.0)	24.8	7.10 (63.0)		2094-AM02-S
TLY-A310M	4500	10.0	3.61 (31.9)	30.0	9.0 (79.6)	0.95	2094-AM02-S

Performance Specifications (brake) with Kinetix 6000 Drives

Motor Cat. No.	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 6000 200V-class Drives
TLY-A110T	6000	0.50	0.086 (0.76)	1.50	0.20 (1.75)	0.037	2094-AMP5-S
TLY-A120T		0.93	0.163 (1.44)	2.50	0.36 (3.20)	0.077	2094-AMP5-S
TLY-A130T		1.67	0.293 (2.59)	4.90	0.76 (6.70)	0.13	2094-AMP5-S
TLY-A220T		3.15	0.757 (6.70)	7.90	1.48 (13.1)	0.24	2094-AMP5-S
TLY-A230T		4.95	1.16 (10.3)	10.5	2.07 (18.3)	0.32	2094-AMP5-S
		4.95	1.16 (10.3)	15.5	3.05 (27.0)		2094-AM01-S
TLY-A2530P	5000	8.50	2.20 (19.5)	17.0	4.18 (37.0)	0.55	2094-AM01-S
		10.0	2.60 (23.0)	21.0	5.20 (46.0)		2094-AM02-S
TLY-A2540P		8.50	2.48 (22.0)	17.0	4.97 (44.0)	0.66	2094-AM01-S
		10.0	2.94 (26.0)	24.8	7.10 (63.0)		2094-AM02-S
TLY-A310M	4500	10.0	3.61 (31.9)	30.0	9.0 (79.6)	0.90	2094-AM02-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.

LDAT-Series Performance Specifications with Kinetix 6000 Drives

Performance Specifications (frame 30) with Kinetix 6000 (200V-class) Drives

Linear Thruster Cat. No.	Velocity, max 230V AC m/s	System Continuous Stall Current Amps 0-pk	System Continuous Stall Force N (lb)	System Peak Stall Current Amps 0-pk	System Peak Stall Force N (lb)	Rated Output 230V AC kW	Kinetix 6000 200V-class Drives
LDAT-S031010-DBx	2.4	4.8	81 (18)	12.2	168 (38)	0.20	2094-AM01-S
LDAT-S031020-DBx	3.1					0.25	
LDAT-S031030-DBx	3.5					0.29	
LDAT-S031040-DBx	3.8					0.31	
LDAT-S032010-DBx	3.1	7.4	126 (28)	24.3	336 (76)	0.44	2094-AM02-S
LDAT-S032020-DBx	4.1					0.52	
LDAT-S032030-DBx	4.7					0.59	
LDAT-S032040-DBx	5.0					0.63	
LDAT-S032010-EBx	3.1	3.7		12.2		0.40	2094-AM01-S
LDAT-S032020-EBx	4.1					0.47	
LDAT-S032030-EBx	4.7					0.52	
LDAT-S032040-EBx	5.0					0.55	
LDAT-S033010-DBx	3.5	11.1	190 (43)	36.5	504 (113)	0.67	2094-AM03-S
LDAT-S033020-DBx	4.7					0.88	
LDAT-S033030-DBx	5.0					0.95	
LDAT-S033040-DBx							
LDAT-S033010-EBx	3.5	3.7		12.2		0.55	2094-AM01-S
LDAT-S033020-EBx	4.4					0.65	
LDAT-S033030-EBx							
LDAT-S033040-EBx							

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.

Performance Specifications (frame 50) with Kinetix 6000 (200V-class) Drives

Linear Thruster Cat. No.	Velocity, max 230V AC m/s	System Continuous Stall Current Amps 0-pk	System Continuous Stall Force N (lb)	System Peak Stall Current Amps 0-pk	System Peak Stall Force N (lb)	Rated Output 230V AC kW	Kinetix 6000 200V-class Drives
LDAT-S051010-DBx	2.8	3.1	119 (27)	11.4	363 (82)	0.31	2094-AMP5-S
LDAT-S051020-DBx	3.7					0.38	
LDAT-S051030-DBx	4.1					0.42	
LDAT-S051040-DBx	4.4					0.44	
LDAT-S051050-DBx	4.7					0.46	
LDAT-S052010-DBx	3.7	6.2	251 (56)	22.7	727 (163)	0.79	2094-AM01-S
LDAT-S052020-DBx	4.8					0.97	
LDAT-S052030-DBx	5.00					1.01	
LDAT-S052040-DBx							
LDAT-S052050-DBx							
LDAT-S052010-EBx ... LDAT-S052050-EBx	2.6	3.1		11.4	0.50	2094-AMP5-S	
LDAT-S053010-DBx	4.1	9.4	378 (85)	34.2	1093 (246)	1.31	2094-AM02-S
LDAT-S053020-DBx	5.0					1.53	
LDAT-S053030-DBx ... LDAT-S053050-DBx	5.0					1.53	
LDAT-S053010-EBx ... LDAT-S053050-EBx	1.7			3.1		11.4	0.47
LDAT-S054010-DBx	4.4	12.4		509 (114)	45.5	1453 (327)	1.87
LDAT-S054020-DBx ... LDAT-S054050-DBx	5.0		2.05				
LDAT-S054010-EBx ... LDAT-S054050-EBx	2.6	6.2	22.7		1.02		2094-AM01-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.

Performance Specifications (frame 70) with Kinetix 6000 (200V-class) Drives

Linear Thruster Cat. No.	Velocity, max 230V AC m/s	System Continuous Stall Current Amps 0-pk	System Continuous Stall Force N (lb)	System Peak Stall Current Amps 0-pk	System Peak Stall Force N (lb)	Rated Output 230V AC kW	Kinetix 6000 200V-class Drives
LDAT-S072010-DBx ... LDAT-S072070-DBx	3.5	6.0	364 (82)	22.0	1055 (237)	1.03	2094-AM01-S
LDAT-S072010-EBx ... LDAT-S072070-EBx	1.7	3.0		11.0		0.47	2094-AMP5-S
LDAT-S073010-DBx ... LDAT-S073070-DBx	3.5	9.0	554 (125)	32.8	1576 (354)	1.57	2094-AM02-S
LDAT-S073010-EBx ... LDAT-S073070-EBx	1.2	3.0		10.9		0.41	2094-AMP5-S

Performance Specifications (frame 70) with Kinetix 6000 (200V-class) Drives (continued)

Linear Thruster Cat. No.	Velocity, max 230V AC m/s	System Continuous Stall Current Amps 0-pk	System Continuous Stall Force N (lb)	System Peak Stall Current Amps 0-pk	System Peak Stall Force N (lb)	Rated Output 230V AC kW	Kinetix 6000 200V-class Drives
LDAT-S074010-DBx ... LDAT-S074070-DBx	3.5	11.9	730 (164)	43.5	2088 (469)	2.08	2094-AM02-S
LDAT-S074010-EBx ... LDAT-S074070-EBx	1.8	6.0		21.7		0.95	2094-AM01-S
LDAT-S076010-DBx ... LDAT-S076070-DBx	3.5	18.2	1122 (252)	66.4	3189 (717)	3.17	2094-AM03-S
LDAT-S076010-EBx ... LDAT-S076070-EBx	1.8	9.1		33.2		1.45	2094-AM02-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.

Performance Specifications (frame 100) with Kinetix 6000 (200V-class) Drives

Linear Thruster Cat. No.	Velocity, max 230V AC m/s	System Continuous Stall Current Amps 0-pk	System Continuous Stall Force N (lb)	System Peak Stall Current Amps 0-pk	System Peak Stall Force N (lb)	Rated Output 230V AC kW	Kinetix 6000 200V-class Drives
LDAT-S102010-DBx ... LDAT-S102090-DBx	2.6	5.7	456 (103)	21.0	1289 (290)	0.96	2094-AM01-S
LDAT-S102010-EBx ... LDAT-S102090-EBx	1.3	2.9		10.5		0.42	2094-AMP5-S
LDAT-S103010-DBx ... LDAT-S103090-DBx	2.7	8.6	702 (158)	31.5	1935 (435)	1.47	2094-AM02-S
LDAT-S103010-EBx ... LDAT-S103090-EBx	0.9	2.9		10.5	1388 (312)	0.30	2094-AMP5-S
LDAT-S104010-DBx ... LDAT-S104090-DBx	2.7	11.5	929 (209)	42.0	2578 (580)	2.07	2094-AM02-S
LDAT-S104010-EBx ... LDAT-S104090-EBx	1.3	5.7		21.0		0.86	2094-AM01-S
LDAT-S106010-DBx ... LDAT-S106090-DBx	2.7	17.3	1403 (315)	63.0	3871 (870)	2.94	2094-AM03-S
LDAT-S106010-EBx ... LDAT-S106090-EBx	1.3	8.6		31.5		1.28	2094-AM02-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.

Performance Specifications (frame 150) with Kinetix 6000 (200V-class) Drives

Linear Thruster Cat. No.	Velocity, max 230V AC m/s	System Continuous Stall Current Amps 0-pk	System Continuous Stall Force N (lb)	System Peak Stall Current Amps 0-pk	System Peak Stall Force N (lb)	Rated Output 230V AC kW	Kinetix 6000 200V-class Drives
LDAT-S152010-DBx ... LDAT-S152090-DBx	1.8	5.3	643 (145)	19.5	1799 (404)	0.87	2094-AM01-S
LDAT-S152010-EBx ... LDAT-S152090-EBx	0.9	2.7		9.8	1679 (377)	0.34	2094-AMP5-S
LDAT-S153010-DBx ... LDAT-S153090-DBx	1.8	8.0	978 (220)	29.1	2680 (602)	1.33	2094-AM02-S
LDAT-S154010-DBx ... LDAT-S154090-DBx	1.8	10.7	1306 (294)	39.1	3597 (809)	1.78	2094-AM02-S
LDAT-S154010-EBx ... LDAT-S154090-EBx	0.9	5.3		19.5	3383 (761)	0.70	2094-AM01-S
LDAT-S156010-DBx ... LDAT-S156090-DBx	1.8	16.3	1997 (449)	59.4	5469 (1229)	2.71	2094-AM03-S
LDAT-S156010-EBx ... LDAT-S156090-EBx	0.9	8.1		19.8	5110 (1149)	1.05	2094-AM02-S

Performance Specifications (frame 30) with Kinetix 6000 (400V-class) Drives

Linear Thruster Cat. No.	Velocity, max 460V AC m/s	System Continuous Stall Current Amps 0-pk	System Continuous Stall Force N (lb)	System Peak Stall Current Amps 0-pk	System Peak Stall Force N (lb)	Rated Output 460V AC kW	Kinetix 6000 400V-class Drives
LDAT-S031010-DBx	2.4	4.8	81 (18)	12.2	168 (38)	0.20	2094-BM01-S @ 150%
LDAT-S031020-DBx	3.1					0.25	
LDAT-S031030-DBx	3.5					0.29	
LDAT-S031040-DBx	3.8					0.31	
LDAT-S032010-DBx	3.1	7.4	126 (28)	24.3	336 (76)	0.40	2094-BM01-S @ 150%
LDAT-S032020-DBx	4.1					0.52	
LDAT-S032030-DBx	4.7					0.59	
LDAT-S032040-DBx	5.0					0.63	
LDAT-S032010-EBx	3.1	3.7	126 (28)	12.2	336 (76)	0.40	2094-BM01-S @ 150%
LDAT-S032020-EBx	4.1					0.52	
LDAT-S032030-EBx	4.7					0.59	
LDAT-S032040-EBx	5.0					0.63	
LDAT-S033010-DBx	3.5	11.1	190 (43)	36.5	504 (113)	0.67	2094-BM02-S @ 150%
LDAT-S033020-DBx	4.7					0.88	
LDAT-S033030-DBx	5.0					0.95	
LDAT-S033040-DBx							
LDAT-S033010-EBx	3.5	3.7	190 (43)	12.2	504 (113)	0.67	2094-BM01-S @ 150%
LDAT-S033020-EBx	4.7					0.87	
LDAT-S033030-EBx	5.0					0.91	
LDAT-S033040-EBx							

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.

Bulletin MPAS Performance Specifications with Kinetix 6000 Drives

Performance Specifications with Kinetix 6000 (200V-class) Drives

Linear Stage Cat. No.	Speed, max mm/s (in/s)	System Continuous Stall Current Amps 0-pk	System Continuous Stall Force N (lb)	System Peak Stall Current Amps 0-pk	System Peak Stall Force N (lb)	Motor Output Power Rating kW	Kinetix 6000 200V-class Drives
MPAS-Axxxx1-V05SxA	200 (7.9) ⁽¹⁾	3.09	521 (117)	6.10	1212 (272)	0.37	2094-AMP5-S
MPAS-Axxxx2-V20SxA	1124 (44.3) ⁽²⁾	4.54	462 (104)	9.10	968 (218)	0.62	2094-AMP5-S
MPAS-A6xxxB-ALM02C	5000 (200) ⁽³⁾	5.3	105 (23.6)	15.8	359 (80.7)	0.32	2094-AM01-S
MPAS-A6xxxB-ALMS2C		4.7	83.0 (18.7)	14.2	312 (70.1)	0.29	2094-AM01-S
MPAS-A8xxxE-ALM02C		7.0	189 (42.5)	17.0	417 (93.7)	0.53	2094-AM01-S
				18.5	456 (103)		2094-AM02-S
MPAS-A8xxxE-ALMS2C		6.3	159 (35.7)	16.7	399 (89.7)	0.48	2094-AM01-S
MPAS-A9xxxK-ALM02C		6.7	285 (64.1)	17.0	630 (142)	0.77	2094-AM01-S
				18.3	680 (153)		2094-AM02-S
MPAS-A9xxxK-ALMS2C		6.1	245 (55.1)	16.5	601 (135)	0.69	2094-AM01-S

(1) For 900 mm stroke length, maximum speed is 176 mm/s (6.9 in/s). For 1020 mm stroke length, maximum speed is 143 mm/s (5.6 in/s).

(2) For 780 mm stroke length, maximum speed is 889 mm/s (35.0 in/s). For 900 mm stroke length, maximum speed is 715 mm/s (28.2 in/s). For 1020 mm stroke length, maximum speed is 582 mm/s (22.9 in/s).

(3) Due to the short travel of many of these stages and the distance needed to reach a maximum velocity of 5000 mm/s (200 in./s), the maximum velocity of these stages is often less than 5000 mm/s (200 in./s). For the maximum velocity of each linear stage according to stroke length, refer to the Kinetix Linear Motion Specifications Technical Data, publication [GMC-TD002](#).

Performance Specifications with Kinetix 6000 (400V-class) Drives

Linear Stage Cat. No.	Speed, max mm/s (in/s)	System Continuous Stall Current Amps 0-pk	System Continuous Stall Force N (lb)	System Peak Stall Current Amps 0-pk	System Peak Stall Force N (lb)	Motor Output Power Rating kW	Kinetix 6000 400V-class Drives
MPAS-Bxxxx1-V05SxA	200 (7.9) ⁽¹⁾	1.75	521 (117)	3.50	1212 (272)	0.37	2094-BMP5-S @ 150%
MPAS-Bxxxx2-V20SxA	1124 (44.3) ⁽²⁾	3.30	462 (104)	5.90	865 (194)	0.62	2094-BMP5-S @ 150%
				6.60	968 (218)		2094-BMP5-S @ 250%
MPAS-B8xxxF-ALM02C	5000 (200) ⁽³⁾	3.50	189 (42.5)	5.90	281 (63.2)	0.527	2094-BMP5-S @ 150%
				9.30	456 (103)		2094-BMP5-S @ 250%
MPAS-B8xxxF-ALMS2C		3.15	159 (35.7)	5.90	272 (61.1)	0.475	2094-BMP5-S @ 150%
				8.37	399 (89.7)		2094-BMP5-S @ 250%
MPAS-B9xxxL-ALM02C		3.40	285 (64.1)	5.90	433 (97.3)	0.768	2094-BMP5-S @ 150%
				9.10	680 (153)		2094-BMP5-S @ 250%
MPAS-B9xxxL-ALMS2C		3.03	245 (55.1)	5.90	424 (95.3)	0.69	2094-BMP5-S @ 150%
				8.19	601 (135)		2094-BMP5-S @ 250%

(1) For 900 mm stroke length, maximum speed is 176 mm/s (6.9 in/s). For 1020 mm stroke length, maximum speed is 143 mm/s (5.6 in/s).

(2) For 780 mm stroke length, maximum speed is 889 mm/s (35.0 in/s). For 900 mm stroke length, maximum speed is 715 mm/s (28.2 in/s). For 1020 mm stroke length, maximum speed is 582 mm/s (22.9 in/s).

(3) Due to the short travel of many of these stages and the distance needed to reach a maximum velocity of 5000 mm/s (200 in./s), the maximum velocity of these stages is often less than 5000 mm/s (200 in./s). For the maximum velocity of each linear stage according to stroke length, refer to the Kinetix Linear Motion Specifications Technical Data, publication [GMC-TD002](#).

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.

Bulletin MPAR Performance Specifications with Kinetix 6000 Drives

Performance Specifications with Kinetix 6000 (200V-class) Drives

Electric Cylinder Cat. No.	Speed, max mm/s (in/s)	System Continuous Stall Current Amps 0-pk	System Continuous Stall Force N (lb)	System Peak Stall Current Amps 0-pk	System Peak Stall Force N (lb)	Motor Output Power Rating kW	Kinetix 6000 200V-class Drives
MPAR-A1xxxB	150	1.15	240 (53.9)	1.35	300 (67.4)	0.036	2094-AMP5-S
MPAR-A1xxxE	500	2.16	280 (62.9)	2.48	350 (78.7)	0.140	2094-AMP5-S
MPAR-A2xxxC	250	2.42	420 (94.4)	2.72	525 (118)	0.105	2094-AMP5-S
MPAR-A2xxxF	640	4.54	640 (144)	5.41	800 (180)	0.410	2094-AM01-S
MPAR-A3xxxE	500	10.33	2000 (450)	12.34	2500 (562)	1.00	2094-AM02-S
MPAR-A3xxxH	1000	12.20	1300 (292)	16.40	1625 (365)	1.30	2094-AM02-S

Performance Specifications with Kinetix 6000 (400V-class) Drives

Electric Cylinder Cat. No.	Speed, max mm/s (in/s)	System Continuous Stall Current Amps 0-pk	System Continuous Stall Force N (lb)	System Peak Stall Current Amps 0-pk	System Peak Stall Force N (lb)	Motor Output Power Rating kW	Kinetix 6000 400V-class Drives
MPAR-B1xxxB	150	1.15	240 (53.9)	1.35	300 (67.4)	0.036	2094-BMP5-S @ 150%
MPAR-B1xxxE	500	1.49	280 (62.9)	1.71	350 (78.7)	0.140	2094-BMP5-S @ 150%
MPAR-B2xxxC	250	1.67	420 (94.4)	1.90	525 (118)	0.105	2094-BMP5-S @ 150%
MPAR-B2xxxF	640	3.29	640 (144)	3.93	800 (180)	0.410	2094-BMP5-S @ 150%
MPAR-B3xxxE	500	5.16	2000 (450)	6.17	2500 (562)	1.00	2094-BM01-S @ 150%
MPAR-B3xxxH	1000	6.13	1300 (292)	6.79	1625 (365)	1.30	2094-BM01-S @ 150%

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.

Bulletin MPAI Performance Specifications with Kinetix 6000 Drives

Performance Specifications (ball screw) with Kinetix 6000 (200V-class) Drives

Electric Cylinder Cat. No.	Speed, max mm/s (in/s)	System Continuous Stall Current Amps 0-pk	System Continuous Stall Force N (lb)		System Peak Stall Current Amps 0-pk	System Peak Stall Force N (lb)	Motor Output Power Rating kW	Kinetix 6000 200V-class Drives
			25 °C (77 °F)	40 °C (104 °F)				
MPAI-A2076CV1	305 (12)	1.80	890 (200)	706 (159)	4.50	1446 (325)	0.22	2094-AMP5-S
MPAI-A2150CV3		2.47	1446 (325)	1147 (258)	6.20		0.25	
MPAI-A2300CV3								
MPAI-A3076CM1	305 (12)	2.68	1624 (365)	1290 (290)	8.90	4448 (1000)	0.27	2094-AM01-S
MPAI-A3076EM1	610 (24)		814 (183)	645 (145)		2570 (578)		
MPAI-A3150CM3	279 (11)	5.61	4003 (900)	3176 (714)	8.40	4448 (1000)	0.39	2094-AM01-S
MPAI-A3300CM3								
MPAI-A3450CM3	188 (7.3)		2002 (450)	1588 (357)	14.14	4003 (900)		
MPAI-A3150EM3	559 (22)							
MPAI-A3300EM3								
MPAI-A3450EM3	376 (15)							
MPAI-A4150CM3	279 (11)	10.89	7784 (1750)	6179 (1389)	17.07	8896 (2000)	0.43	2094-AM02-S
MPAI-A4300CM3								
MPAI-A4450CM3	245 (9.5)		3892 (875)	3092 (695)	27.44	7784 (1750)		
MPAI-A4150EM3	559 (22)							
MPAI-A4300EM3								
MPAI-A4450EM3	491 (19)							
MPAI-A5xxxCM3	200 (7.8)	13.25	13,123 (2950)	10,415 (2341)	16.70	13,345 (3000)	0.55	2094-AM03-S
MPAI-A5xxxEM3	400 (15.6)		6562 (1475)	5208 (1171)	33.40	13,122 (2950)		

Performance Specifications (roller screw) with Kinetix 6000 (200V-class) Drives

Electric Cylinder Cat. No.	Speed, max mm/s (in/s)	System Continuous Stall Current Amps 0-pk	System Continuous Stall Force N (lb)		System Peak Stall Current Amps 0-pk	System Peak Stall Force N (lb)	Motor Output Power Rating kW	Kinetix 6000 200V-class Drives
			25 °C (77 °F)	40 °C (104 °F)				
MPAI-A3076RM1	305 (12)	2.87	1557 (350)	1237 (278)	8.90	4862 (1093)	0.27	2094-AM01-S
MPAI-A3076SM1	610 (24)		778 (175)	618 (139)		2431 (547)		
MPAI-A3150RM3	279 (11)	5.61	3781 (850)	3003 (675)	14.14	7562 (1700)	0.39	2094-AM01-S
MPAI-A3300RM3						3781 (850)		
MPAI-A3450RM3	1891 (425)		1499 (337)					
MPAI-A3150SM3								
MPAI-A3300SM3	353 (14)							
MPAI-A3450SM3								
MPAI-A4150RM3	279 (11)	10.89	7340 (1650)	5827 (1310)	27.44	14,679 (3300)	0.43	2094-AM02-S
MPAI-A4300RM3	559 (22)							
MPAI-A4450RM3			3670 (825)	2914 (655)				
MPAI-A4150SM3								
MPAI-A4300SM3								
MPAI-A4450SM3	393 (15)							

Performance specification data and curves reflect nominal system performance of a typical system with actuator 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.

LDC-Series Performance Specifications with Kinetix 6000 Drives

Performance Specifications with Kinetix 6000 (200V-class) Drives

Linear Motor Cat. No.	Speed, max m/s (ft/s)	System Continuous Stall Current ⁽¹⁾ Amps 0-pk	System Continuous Stall Force ⁽¹⁾ N (lb)	System Peak Stall Current Amps 0-pk	System Peak Stall Force N (lb)	Linear Motor Rated Output kW	Kinetix 6000 200V-class Drives
LDC-C030100-DHT	10.0 (32.8)	4.1...6.1	74...111 (17...25)	12.1	188 (42)	0.37...0.55	2094-AM01-S
LDC-C030200-DHT		8.1...12.2	148...222 (33...50)	24.3	375 (84)	0.74...1.11	2094-AM02-S
LDC-C030200-EHT		4.1...6.1		12.1			2094-AM01-S
LDC-C050100-DHT	10.0 (32.8)	3.9...5.9	119...179 (27...40)	11.7	302 (68)	0.59...0.89	2094-AM01-S
LDC-C050200-DHT		7.9...11.8	240...359 (54...81)	23.3	600 (135)	1.20...1.79	2094-AM02-S
LDC-C050200-EHT		3.9...5.9		11.6			2094-AMP5-S
LDC-C050300-DHT		11.8...17.7	363...544 (82...122)	35.9	941 (212)	1.81...2.72	2094-AM03-S
LDC-C050300-EHT		3.9...5.9		12.0			2094-AMP5-S
LDC-C075200-DHT		7.7...11.5	348...523 (78...117)	22.9	882 (198)	1.74...2.61	2094-AM02-S
LDC-C075200-EHT		3.8...5.7		11.5			2094-AMP5-S
LDC-C075300-DHT	10.0 (32.8)	11.5...17.2	523...784 (117...176)	35.6	1368 (308)	2.61...3.92	2094-AM03-S
LDC-C075300-EHT		3.8...5.7		11.9			2094-AM01-S
LDC-C075400-DHT		15.3...23.0	697...1045 (157...235)	47.4	1824 (410)	3.48...5.22	2094-AM03-S
LDC-C075400-EHT		7.7...11.5		23.7			2094-AM02-S
LDC-C100300-DHT	10.0 (32.8)	11.1...16.7	674...1012 (152...227)	34.3	1767 (397)	3.37...5.06	2094-AM03-S
LDC-C100300-EHT		3.7...5.6		11.4			2094-AM01-S
LDC-C100400-DHT		14.8...22.2	899...1349 (202...303)	45.7	2356 (530)	4.49...6.74	2094-AM03-S
LDC-C100400-EHT		7.4...11.1		22.8			2094-AM02-S
LDC-C100600-DHT		22.2...33.3	1349...2023 (303...455)	68.5	3534 (794)	6.74...10.11	2094-AM05-S
LDC-C150400-DHT	10.0 (32.8)	14.1...21.1	1281...1922 (288...432)	45.2	3498 (786)	6.40...9.61	2094-AM03-S
LDC-C150600-DHT		21.1...31.7	1922...2882 (432...648)	67.8	5246 (1179)	9.61...14.41	2094-AM05-S

(1) Values represent the range between no cooling (low value) and water cooling (high value).

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.

LDL-Series Performance Specifications with Kinetix 6000 Drives

Linear Motor Cat. No.	Speed, max m/s (ft/s)	System Continuous Stall Current ⁽¹⁾ Amps 0-pk	System Continuous Stall Force ⁽¹⁾ N (lb)	System Peak Stall Current Amps 0-pk	System Peak Stall Force N (lb)	Linear Motor Rated Output kW	Kinetix 6000 200V-class Drives
LDL-N030120-DHT	10.0 (32.8)	3.0	63 (14)	9.9	209 (47)	0.31	2094-AMP5-S
LDL-N030240-DHT		6.0	126 (28)	19.9	417 (94)	0.63	2094-AM01-S
LDL-N030240-EHT		3.0		9.9			2094-AMP5-S
LDL-T030120-DHT		3.0	72 (16)	9.9	239 (54)	0.36	2094-AMP5-S
LDL-T030240-DHT		6.0	144 (32)	19.9	479 (108)	0.72	2094-AM01-S
LDL-T030240-EHT		3.0		9.9			2094-AMP5-S
LDL-N050120-DHT	10.0 (32.8)	2.7	96 (22)	9.1	317 (71)	0.48	2094-AMP5-S
LDL-N050240-DHT		5.5	191 (43)	18.1	635 (143)	0.95	2094-AM01-S
LDL-N050240-EHT		2.7		9.1			2094-AMP5-S
LDL-N050360-DHT		8.2	287 (65)	27.2	952 (214)	1.43	2094-AM02-S
LDL-N050360-EHT		2.7		9.1			2094-AMP5-S
LDL-N050480-DHT		10.9	383 (86)	36.3	1269 (285)	1.91	2094-AM03-S
LDL-N050480-EHT		5.5		18.1			2094-AM01-S
LDL-T050120-DHT		2.7	110 (25)	9.1	364 (82)	0.55	2094-AMP5-S
LDL-T050240-DHT		5.5	220 (49)	18.1	728 (164)	1.10	2094-AM01-S
LDL-T050240-EHT		2.7		9.1			2094-AMP5-S
LDL-T050360-DHT		8.2	329 (74)	27.2	1093 (246)	1.64	2094-AM02-S
LDL-T050480-DHT		10.9	439 (99)	36.3	1457 (327)	2.19	2094-AM03-S
LDL-T050480-EHT		5.5		18.1			2094-AM01-S
LDL-N075480-DHT	10.0 (32.8)	9.9	519 (117)	32.8	1723 (387)	2.59	2094-AM03-S
LDL-N075480-EHT		4.9		16.4			2094-AM01-S
LDL-T075480-DHT		9.9	596 (134)	32.8	1977 (444)	2.98	2094-AM03-S
LDL-T075480-EHT		4.9		16.4			2094-AM01-S

(1) Values represent the range between no cooling (low value) and water cooling (high value).

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.