

Kinetix 300 EtherNet/IP Indexing Servo Drives



The Kinetix 300 EtherNet/IP indexing drive provides a cost-effective single-axis solution for low axis count motion control applications. Using one standard Ethernet/IP network for an entire machine - including Motion, Control, I/O, and HMI simplifies wiring, reduces panel layout costs, and allows easy integration into manufacturing and enterprise systems. In addition, safe torque-off functionality helps protect personnel while increasing machine productivity.

Topic	Page
Kinetix 300 Servo Drive Components	231
Kinetix 300 Drive Power Specifications	233
Kinetix 300 Drive Accessory Specifications	235
Kinetix 300 General System Specifications	239
Kinetix 300 Connector and Indicator Locations	244
Kinetix 300 Drive Catalog Numbers	244

Kinetix 300 Servo Drive Components

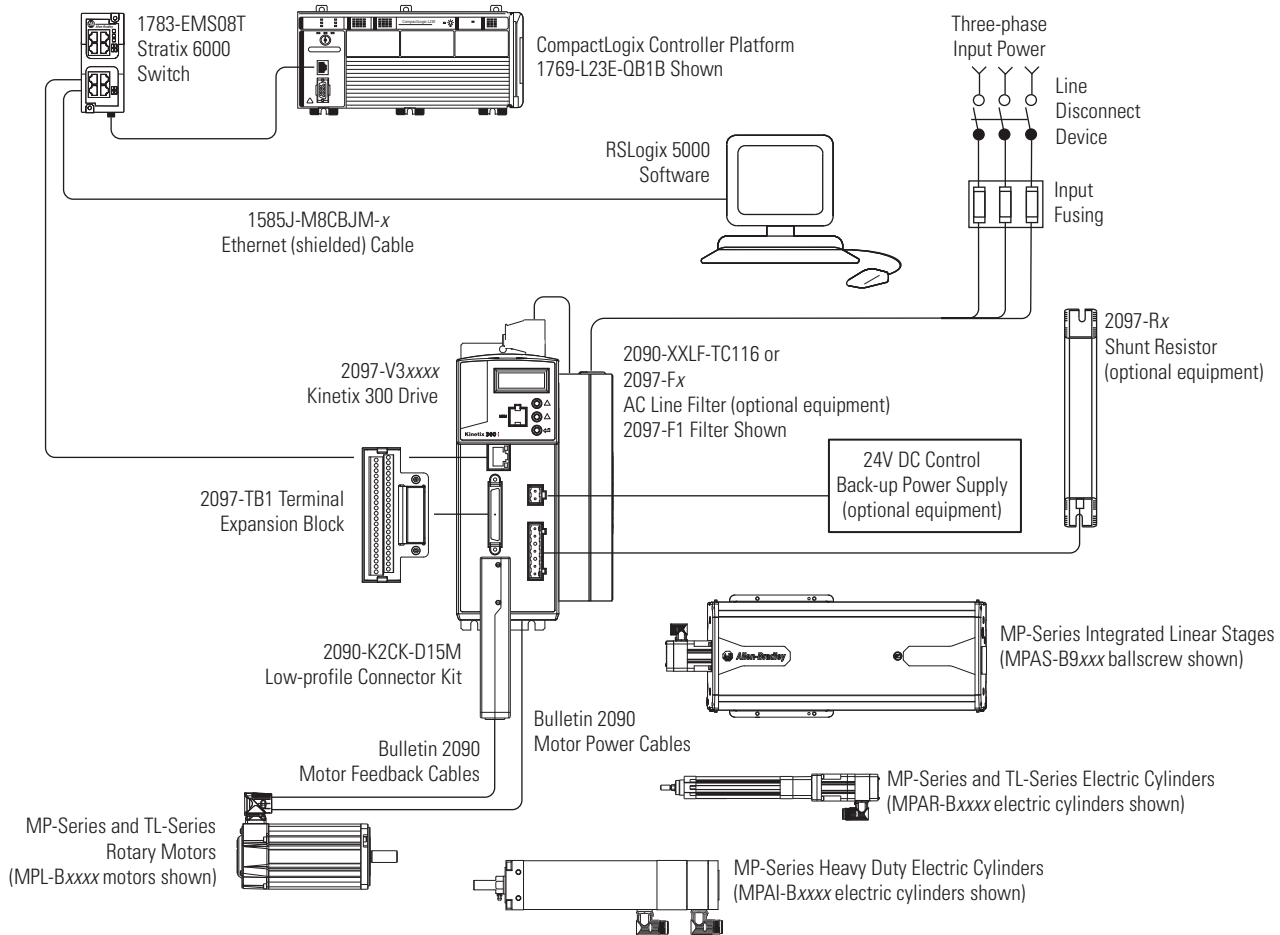
Kinetix 300 servo drive systems consist of these required components:

- One 2097-V3xxxx indexing drive
- One MP-Series or TL-Series servo motor or linear actuator
- One motor power and motor feedback cable
- One 2090-K2CK-D15M low-profile connector kit for motor feedback
- One 2097-TB1 I/O terminal expansion block
- 1585J-M8CBJM-x (shielded) Ethernet cable

Kinetix 300 servo drive systems may also include any of these optional components:

- One 2097-Fx or 2090-XXLF-TC116 AC line filter
- One 2097-Rx shunt resistor

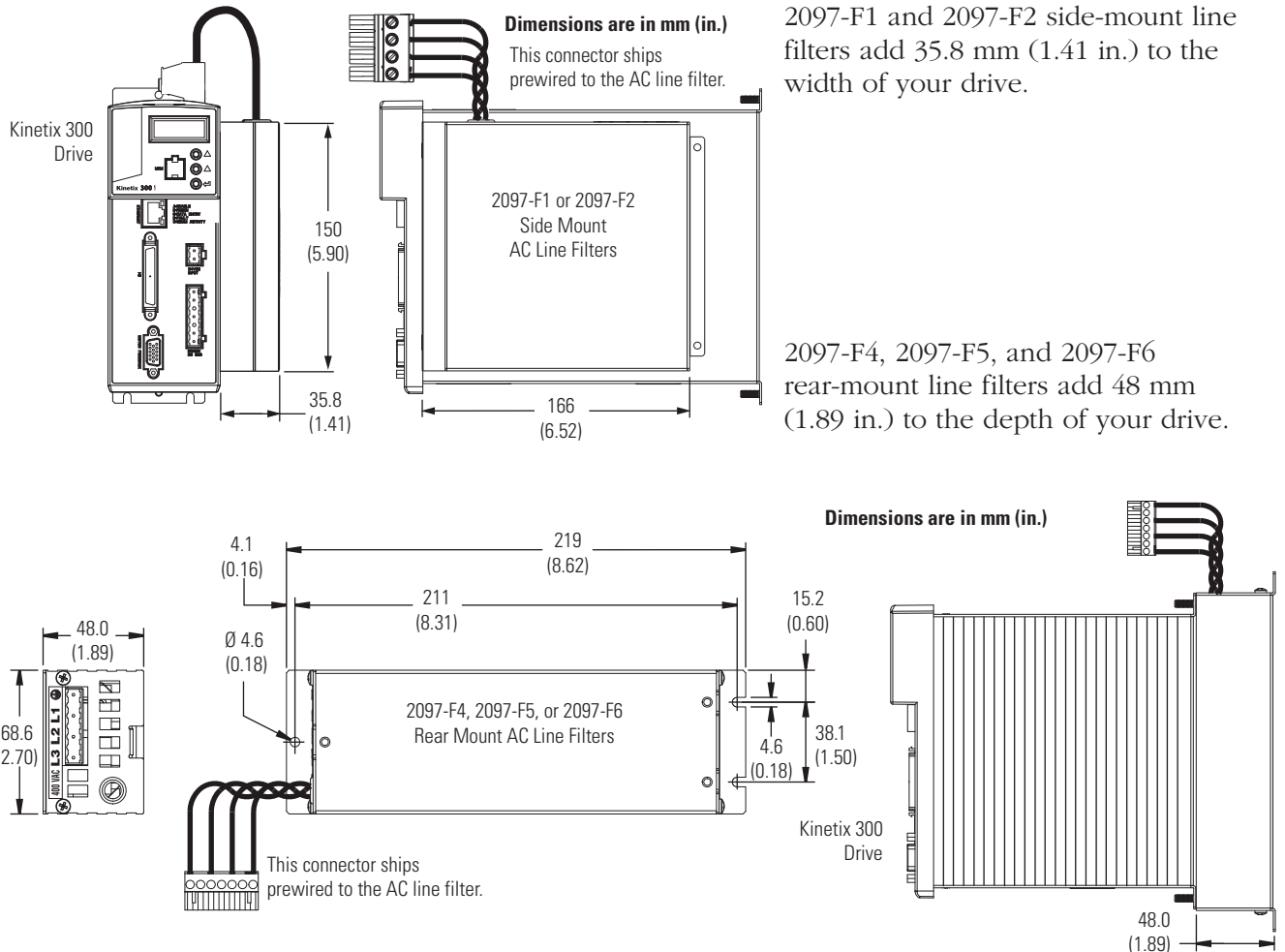
Typical Configuration - Kinetix 300 Drive System



AC Line Filters

The Kinetix 300 drives were tested by using recommended line filters. Use of these filters is also needed to meet CE requirements. 2097-V32PR0, 2097-V32PR2, 2097-V32PR4 drives have integrated AC line filters.

AC Line Filter Dimensions



AC Line Filter Specifications

AC Line Filter Cat. No.	Mount	Voltage 50/60 Hz	Phase	Current A @ 40 °C (104 °F)	Power Loss W	Leakage Current mA	Weight, approx. kg (lb)	Kinetix 300 Drive ⁽¹⁾ Cat. No.
2097-F1	Side	120/240V AC	1 or 3	24.0	5.2	9.0	0.6 (0.13)	2097-V33PR6
2097-F2		480V AC	3	10.0	2.8			2097-V34PR6
2097-F4 ⁽²⁾	Rear	120/240V AC	1 or 3	4.40	1.2	1.0	0.8 (0.18)	2097-V33PR1
		480V AC	3		1.3			2097-V34PR3
2097-F5 ⁽²⁾		120/240V AC	1 or 3	15.0	4.1			2097-V33PR3
2097-F6 ⁽²⁾								2097-V33PR5

(1) Use 2090-XXLF-TC116 line filter for 2097-V31PR0 and 2097-V31PR2 drives. Refer to AC Line Filter Specifications on page 463 for more information.

(2) This filter is rated for multiple voltage/phase line conditions.