



Kinetix 350 Single-axis EtherNet/IP Servo Drives

Catalog Numbers 2097-V31PR0-LM, 2097-V31PR2-LM,
2097-V32PR0-LM, 2097-V32PR2-LM, 2097-V32PR4-LM,
2097-V33PR1-LM, 2097-V33PR3-LM, 2097-V33PR5-LM,
2097-V33PR6-LM, 2097-V34PR3-LM, 2097-V34PR5-LM,
2097-V34PR6-LM



Allen-Bradley

by **ROCKWELL AUTOMATION**

User Manual

Original Instructions

Catalog Number Explanation

Kinetix 350 drive catalog numbers and descriptions are listed in these tables.

Table 3 - Kinetix 350 Drives (Single-phase)

Cat. No.	Input Voltage	Continuous Output Current A (0-pk)	Features
2097-V31PR0-LM	120V, 1 Ø 240V, 1 Ø	2.8	120V Doubler mode - Safe Torque Off
2097-V31PR2-LM		5.7	
2097-V32PR0-LM	240V, 1 Ø	2.8	- Integrated AC line filter - Safe Torque Off
2097-V32PR2-LM		5.7	
2097-V32PR4-LM		11.3	

Table 4 - Kinetix 350 Drives (Single/Three-phase)

Cat. No.	Input Voltage	Continuous Output Current A (0-pk)	Features
2097-V33PR1-LM	120V, 1 Ø 240V, 1 Ø 240V, 3 Ø	2.8	Safe Torque Off
2097-V33PR3-LM		5.7	
2097-V33PR5-LM		11.3	
2097-V33PR6-LM		17.0	

Table 5 - Kinetix 350 Drives (Three-phase)

Cat. No.	Input Voltage	Continuous Output Current A (0-pk)	Features
2097-V34PR3-LM	480V, 3 Ø	2.8	Safe Torque Off
2097-V34PR5-LM		5.7	
2097-V34PR6-LM		8.5	

Table 6 - Kinetix 350 Drive Accessories

Cat. No.	Drive Components
2097-Fx	AC line filters
2097-TB1	Terminal block for I/O connector
2097-Rx	Shunt resistors
2097-PGMR	Memory module programmer
2097-MEM	Memory modules 12 pack

Contactor Ratings

Table 8 - Kinetix 350 Drives (120/240V)

Cat. No.	Drive Voltage	AC Coil Contactor	DC Coil Contactor
2097-V31PR0-LM	120V	100-C23x10	100-C23Zx10
	240V	100-C12x10	100-C12Zx10
2097-V31PR2-LM	120V	100-C30x10	100-C30Zx10
	240V	100-C23x10	100-C23Zx10

Table 9 - Kinetix 350 Drives (240V)

Cat. No.	Drive Voltage	AC Coil Contactor	DC Coil Contactor
2097-V32PR0-LM	240V	100-C23x10	100-C23Zx10
2097-V32PR2-LM	240V	100-C23x10	100-C23Zx10
2097-V32PR4-LM	240V	100-C30x10	100-C30Zx10
2097-V33PR1-LM	120V	100-C23x10	100-C23Zx10
	240V	100-C16x10	100-C16Zx10
2097-V33PR3-LM	120V	100-C23x10	100-C23Zx10
	240V	100-C16x10	100-C16Zx10
2097-V33PR5-LM	120V	100-C30x10	100-C30Zx10
	240V	100-C23x10	100-C23Zx10
2097-V33PR6-LM	120V	N/A	N/A
	240V	100-C30x10	100-C30Zx10

Table 10 - Kinetix 350 Drives (480V)

Cat. No.	Drive Voltage	AC Coil Contactor	DC Coil Contactor
2097-V34PR3-LM	480V	100-C12x10	100-C12Zx10
2097-V34PR5-LM		100-C12x10	100-C12Zx10
2097-V34PR6-LM		100-C23x10	100-C23Zx10

Transformer Selection

The Kinetix 350 drive does not require an isolation transformer for three-phase input power. However, a transformer can be required to match the voltage requirements of the controller to the available service.

To choose the size of a transformer for the main AC power inputs, refer to [page 17](#) and [Transformer Specifications for Input Power](#) on [page 19](#).

IMPORTANT If you are using an autotransformer, make sure that the phase to neutral/ground voltages do not exceed the input voltage ratings of the drive.

In this example, the enclosure must have an exterior surface of at least 4.53 m². If any portion of the enclosure is not able to transfer heat, exclude heat in the calculation.

Because the minimum cabinet depth to house the Kinetix 350 system (selected for this example) is 332 mm (13 in.), the cabinet must be approximately 2000 x 700 x 332 mm (78.7 x 27.6 x 13.0 in.) HxWxD.

$$2 \times (0.332 \times 0.70) + 2 \times (0.332 \times 2.0) + 2 \times (0.70 \times 2.0) = 4.59 \text{ m}^2$$

Because this cabinet size is considerably larger than what is necessary to house the system components, it can be more efficient to provide a means of cooling in a smaller cabinet. Contact your cabinet manufacturer for options available to cool your cabinet.

Power Dissipation Specifications

This table shows the maximum power dissipation of each drive. Use this table to size an enclosure and calculate required ventilation for your Kinetix 350 drive system.

Cat. No.	Power Dissipation, W
2097-V31PR0-LM	28
2097-V31PR2-LM	39
2097-V32PR0-LM	28
2097-V32PR2-LM	39
2097-V32PR4-LM	67
2097-V33PR1-LM	28
2097-V33PR3-LM	39
2097-V33PR5-LM	67
2097-V33PR6-LM	117
2097-V34PR3-LM	39
2097-V34PR5-LM	58
2097-V34PR6-LM	99