

Allen-Bradley
1397
460-to-230V Conversion Kit
Cat. Nos. 1397-FC030
1397-FC075

What This Option Provides

The 460-to-230V Conversion Kit provides (2) replacement fuses that are used to convert a 460V AC input drive to a 230V AC input drive at half the horsepower rating of the 460V drive. When converted to a 230V AC input drive, the following drive rating reductions will apply.

460V AC Input			230V AC Input		
Nominal Rating		Code	Nominal Rating		Code
HP	kW ¹		HP	kW ¹	
3	(2.2)	B003	1.5	(1.2)	A001
5	(3.7)	B005	2	(1.5)	A002
7.5	(5.5)	B007	3	(2.2)	A003
10	(7.5)	B010	5	(3.7)	A005
15	(11)	B015	7.5	(5.5)	A007
20	(15)	B020	10	(7.5)	A010
30	(22)	B030	15	(11)	A015
40	(30)	B040	20	(15)	A020
50	(37)	B050	25	(18.5)	A025
60	(45)	B060	30	(22)	A030
75	(56)	B070	40	(30)	A040
100	(75)	B100	50	(37)	A050
125	(93)	B125	60	(45)	A060
150	(112)	B150	75	(56)	A075

¹ kW ratings are based on rated input voltage.

Where This Option Is Used

This option may be used with all 3-150HP/460V 1397 Drives.

Catalog Number	460V Drive Rating		230V Drive Rating	
	HP	(kW)	HP	(kW)
1397-FC030	3-60	(2.2-45)	1.5-30	(1.2-22)
1397-FC075	75-150	(56-112)	40-75	(30-56)

Installation

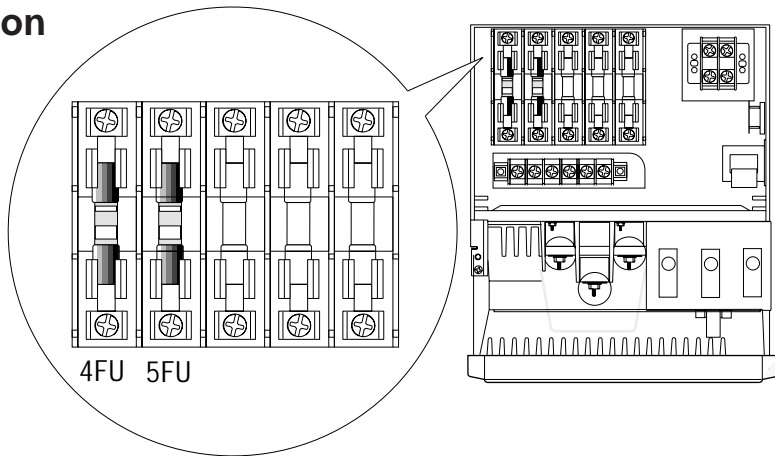


ATTENTION: Electric Shock can cause injury or death. Remove all power before working on this product.

The drive is at line voltage when connected to incoming AC power. Before proceeding with any installation or troubleshooting activity, disconnect, lock out, and tag all incoming power to the drive. Verify with a voltmeter that no voltage exists at terminals L1, L2 and L3 on the drive input power terminal block.

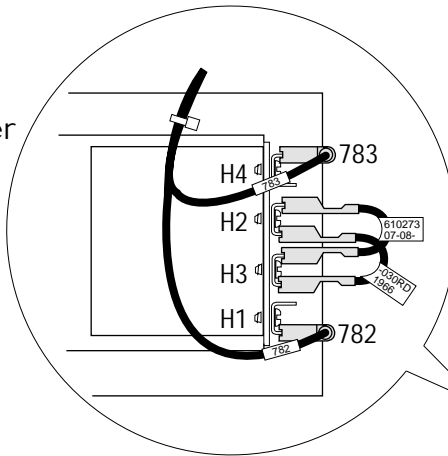
3-60HP/460V Drive Installation

- ❑ 1 Remove and lock-out all incoming power to the drive. Replace fuses 4FU & 5FU with the (2) fuses included with the kit

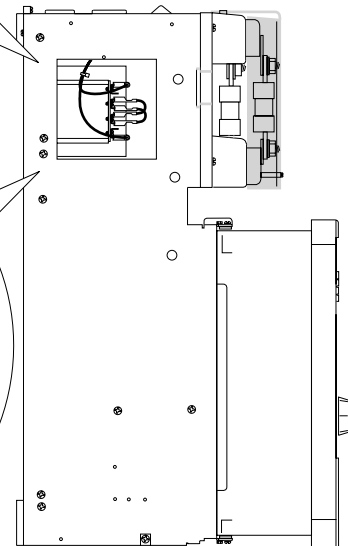
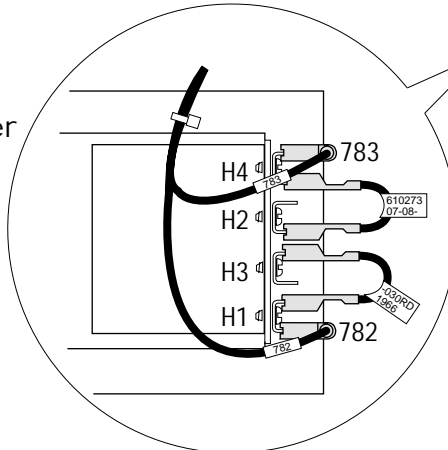


Control Transformer Set for 460V AC Input Line

- ❑ 2 Reconnect the drive control transformer for 230V AC input operation.



Control Transformer Set for 230V AC Input Line

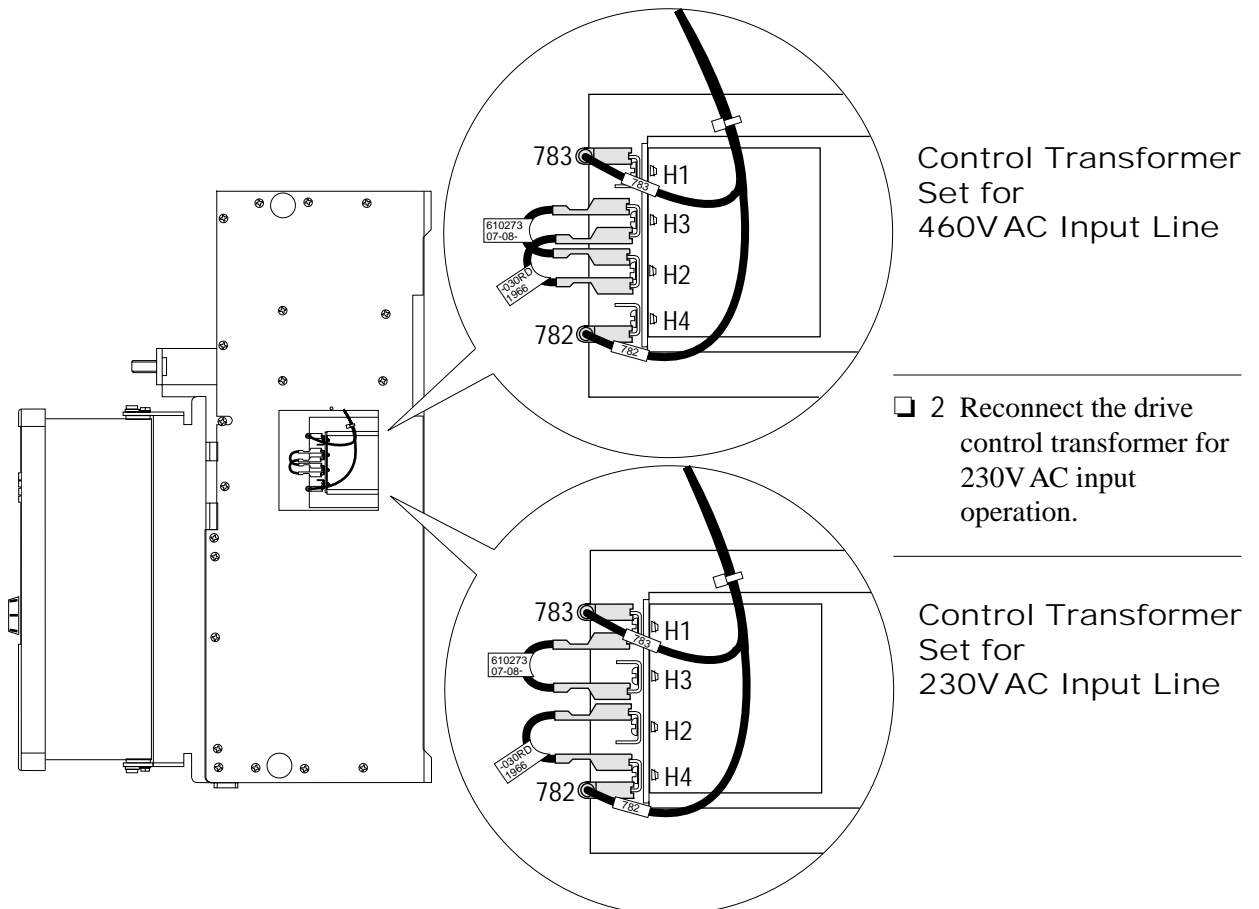
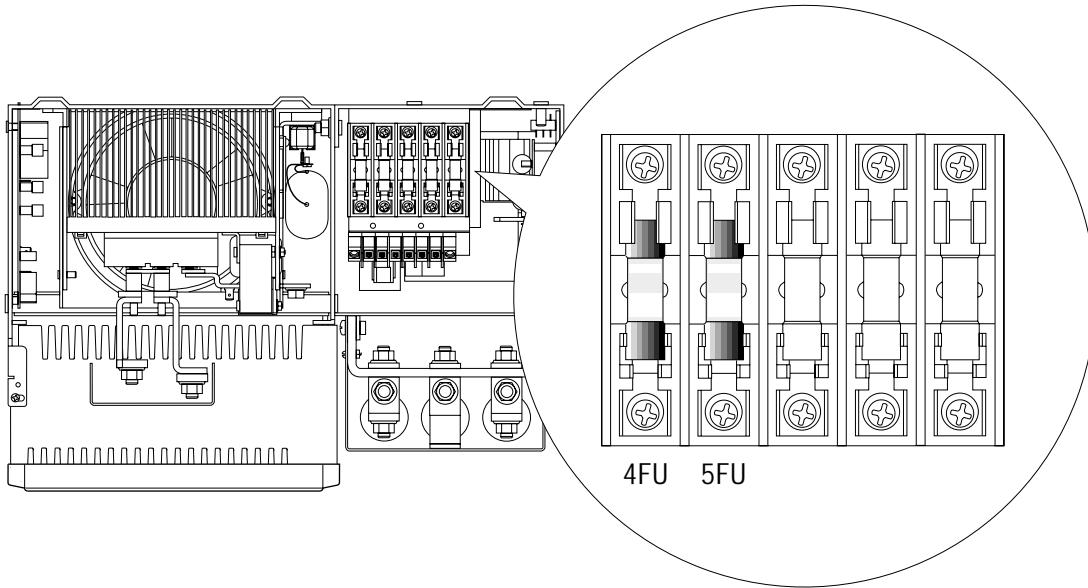


Installation

(continued)

75-150HP/460V Drive Installation

- ❑ 1 Remove and lock-out all incoming power to the drive. Replace fuses 4FU & 5FU with the (2) fuses included with the kit.



Control Transformer
Set for
460V AC Input Line

- ❑ 2 Reconnect the drive control transformer for 230V AC input operation.

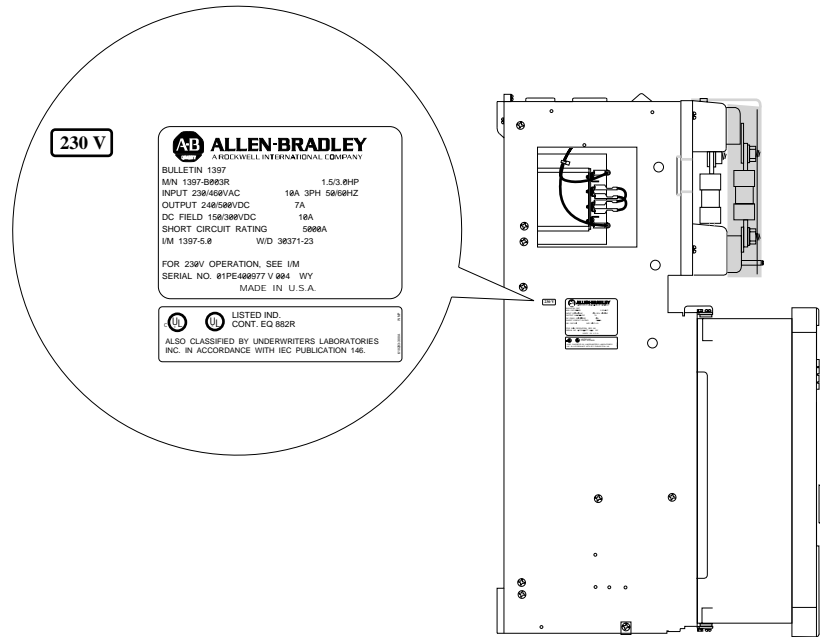
Control Transformer
Set for
230V AC Input Line

Installation

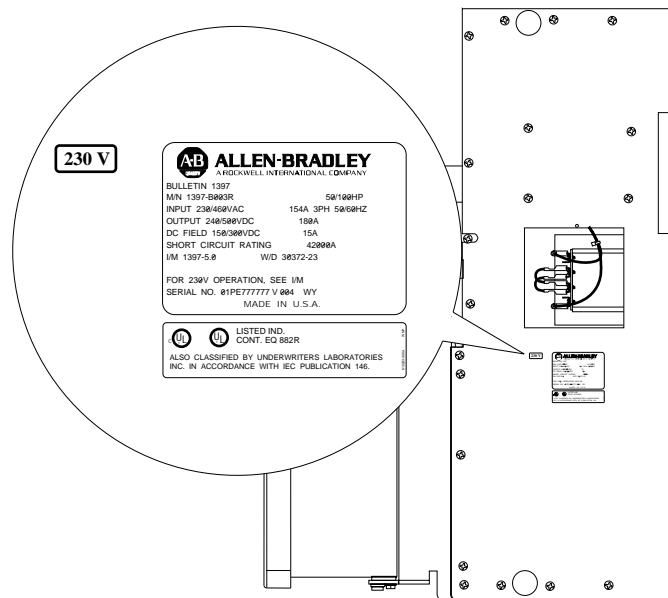
(continued)

- 3 Peel the 230V label from the fuse shipping bag. Place it next to the drive nameplate label as shown.

3-60HP/460V Drive Installation



75-150HP/460V Drive Installation



Setup

To reconfigure a drive for 230V AC operation, the following parameters must be reset.

Important: Depending upon the application, additional parameter adjustments may be required. If additional options are installed, different parameter settings may be required. Perform the Start-Up and Adjustment procedure in the 1397 User Manual to verify all parameter settings.

Motor Armature Amps

P.045 [Motor Arm Amps]

Reset to match the motor's nameplate armature Amps.

Motor Armature Volts

P.046 [Motor Arm Volts]

Reset to match the motor's nameplate armature voltage.

Nominal AC Input Voltage

P.051 [Motor AC Volts]

Reset to match the nominal AC line RMS voltage.



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