

Removing and Replacing the Line Interface Module Internal Components

Catalog Numbers

2094-AL15S, 2094-AL25S, 2094-AL50S, 2094-AL75S,
2094-BL10S, 2094-BL25S, 2094-BL50S, 2094-BL75S,
2094-XL75S-C1, 2094-XL75S-C2, 2094-AL09, 2094-BL02

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About This Publication

Use these instructions when replacing components internal to the Bulletin 2094 Line Interface Module (LIM) as specified in [Field Replaceable Components](#) on [page 4](#).

For installation information regarding equipment and accessories not included here, refer to [Additional Resources](#) on [page 22](#) or the information available for those products.

Important User Information

Read this document and the documents listed in the additional resources section about installation, configuration, and operation of this equipment before you install, configure, operate, or maintain this product. Users are required to familiarize themselves with installation and wiring instructions in addition to requirements of all applicable codes, laws, and standards.

Activities including installation, adjustments, putting into service, use, assembly, disassembly, and maintenance are required to be carried out by suitably trained personnel in accordance with applicable code of practice.

If this equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

In no event will Rockwell Automation, Inc. be responsible or liable for indirect or consequential damages resulting from the use or application of this equipment.

The examples and diagrams in this manual are included solely for illustrative purposes. Because of the many variables and requirements associated with any particular installation, Rockwell Automation, Inc. cannot assume responsibility or liability for actual use based on the examples and diagrams.

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Throughout this manual, when necessary, we use notes to make you aware of safety considerations.



WARNING: Identifies information about practices or circumstances that can cause an explosion in a hazardous environment, which may lead to personal injury or death, property damage, or economic loss.



ATTENTION: Identifies information about practices or circumstances that can lead to personal injury or death, property damage, or economic loss. Attentions help you identify a hazard, avoid a hazard, and recognize the consequence.

IMPORTANT

Identifies information that is critical for successful application and understanding of the product.

Labels may also be on or inside the equipment to provide specific precautions.



SHOCK HAZARD: Labels may be on or inside the equipment, for example, a drive or motor, to alert people that dangerous voltage may be present.



BURN HAZARD: Labels may be on or inside the equipment, for example, a drive or motor, to alert people that surfaces may reach dangerous temperatures.



ARC FLASH HAZARD: Labels may be on or inside the equipment, for example, a motor control center, to alert people to potential Arc Flash. Arc Flash will cause severe injury or death. Wear proper Personal Protective Equipment (PPE). Follow ALL Regulatory requirements for safe work practices and for Personal Protective Equipment (PPE).

Catalog Number Explanation Line interface module (LIM) catalog numbers and descriptions are listed in the following table.

Table 1 - LIM Catalog Numbers and Descriptions

Cat. No.	Input Voltage	Current Rating	Description
2094-AL15S	230V	15 A	<ul style="list-style-type: none"> • 230V AC auxiliary power output. • Customer-configurable branch-circuit protection. This feature provides the option for connecting CB2 and CB3 before or after the main (CB1) disconnect.
2094-AL25S		25 A	
2094-AL50S		50 A	
2094-AL75S		75 A	
2094-BL10S	460V	10 A	Refer to the Line Interface Module Installation Instructions, publication 2094-IN005 , for more information.
2094-BL25S		25 A	
2094-BL50S		50 A	
2094-BL75S		75 A	
2094-XL75S-C1	230/460V	75 A	110V AC auxiliary power input.
2094-XL75S-C2	230/460V	75 A	230V AC auxiliary power input.
2094-AL09	230V	20 A	<ul style="list-style-type: none"> • 24V DC power output with 8 A current capacity.
2094-BL02	460V	30 A	<ul style="list-style-type: none"> • Internal three-phase line filter. • Internal 230V AC control line filter.

Field Replaceable Components

This section provides descriptions and catalog numbers for the field-replaceable components internal to the line interface module.

**Table 2 - Field Replaceable Components
(2094-ALxxS, 2094-BLxxS, and 2094-XL755-Cx LIM modules)**

Cat. No.	Quantity	Reference Designator	Description	Allen-Bradley Part Number	Bussmann Part Number
2094-ALxxS	1	CB2	Circuit Breaker, 2-pole, 20 A	1492-SP2D200 ⁽²⁾ 1492-SPM2D200	—
	1	CB3	Circuit Breaker, 2-pole, 16 A	1492-SP2C160 ⁽³⁾ 1492-SPM2C160	—
	2	FB1 ⁽¹⁾	Fuse, 10 A, Class CC	—	FNQ-R-10
2094-BLxxS	1	CB2	Circuit Breaker, 2-pole, 4 A	1492-SP2D040 ⁽²⁾ 1492-SPM2D040	—
	1	CB3	Circuit Breaker, 3-pole, 6 A	1492-SP3C060 ⁽³⁾ 1492-SPM3C060	—
	2	FB1 ⁽¹⁾	Fuse, 3.5 A, Class CC	—	FNQ-R-3.5
2094-XL755-C1	1	CB2	Circuit Breaker, 2-pole, 20 A	1492-SP2D200 ⁽²⁾ 1492-SPM2D200	—
	1	CB3	Circuit Breaker, 2-pole, 16 A	1492-SP2C160 ⁽³⁾ 1492-SPM2C160	—
	2	FB1 ⁽¹⁾	Fuse, 15 A, Class CC	—	FNQ-R-15
2094-XL755-C2	1	CB2	Circuit Breaker, 2-pole, 20 A	1492-SP2D200 ⁽²⁾ 1492-SPM2D200	—
	1	CB3	Circuit Breaker, 2-pole, 16 A	1492-SP2C160 ⁽³⁾ 1492-SPM2C160	—
	2	FB1 ⁽¹⁾	Fuse, 10 A, Class CC	—	FNQ-R-10
Common Module Components	1	FB1	Fuse Block	1492-FB2C30-L	—
	1	CB2A	Auxiliary Contact	1492-ASPH3 ⁽⁴⁾ 189-ASCR3	—

(1) Fuses for FB1 are accessible from the front of each module. Refer to [Figure 1](#) and [Figure 2](#) for the location of FB1.

(2) CB2 (part number 1492-SPxxxx) is no longer available. It must be replaced with CB2 (part number 1492-SPMxxxx).

(3) CB3 (part number 1492-SPxxxx) is no longer available. It must be replaced with CB3 (part number 1492-SPMxxxx).

(4) CB2A (part number 1492-ASPH3) is no longer available. It must be replaced with CB2A (part number 189-ASCR3).

Table 3 - Field Replaceable Components (2094-AL09 and 2094-BL02 LIM modules)

Cat. No.	Quantity	Reference Designator	Description	Allen-Bradley Part Number	Vendor Part Number
2094-AL09	1	CB1	Circuit Breaker, 3-phase, 25 A, 480V	1492-SP3D250 ⁽¹⁾ 1492-SPM3D250	—
2094-BL02	1	CB1	Circuit Breaker, 3-phase, 32 A, 480V	1492-SP3D320 ⁽¹⁾ 1492-SPM3D320	—
	1		Finger Guard, Fan, Wire, 80 mm	—	8172 (Qual-Tek)
	1		Fan, 80 mm (3.15 in.), 230V	—	UF80B23-BTH (Mechatronics)
Common Module Components	1	CB3	Circuit Breaker, 2-phase, 3 A, 480V	1492-SP2D030 ⁽²⁾ 1492-SPM2D030	—
	1	CB2	Circuit Breaker, 3-phase, 3 A, 480V	1492-SP3D030 ⁽³⁾ 1492-SPM3D030	—

(1) CB1 (part number 1492-SPxxxx) is no longer available. It must be replaced with CB1 (part number 1492-SPMxxxx).

(2) CB3 (part number 1492-SPxxxx) is no longer available. It must be replaced with CB3 (part number 1492-SPMxxxx).

(3) CB2 (part number 1492-SPxxxx) is no longer available. It must be replaced with CB2 (part number 1492-SPMxxxx).

Remove/Replace the Front Cover

To perform all component removal/replacement procedures, you need to remove power from the unit and remove the front cover to gain access to the internal components. There are no tools needed to remove the front cover.

Follow these steps to remove the LIM module front cover.

1. Remove all input power to the LIM module.



ATTENTION: To avoid shock hazard or personal injury, assure that all power has been removed before proceeding. This system may have multiple sources of power. More than one disconnect switch may be required to de-energize the system.

2. Allow five minutes for the 24V power supplies to completely discharge before proceeding.



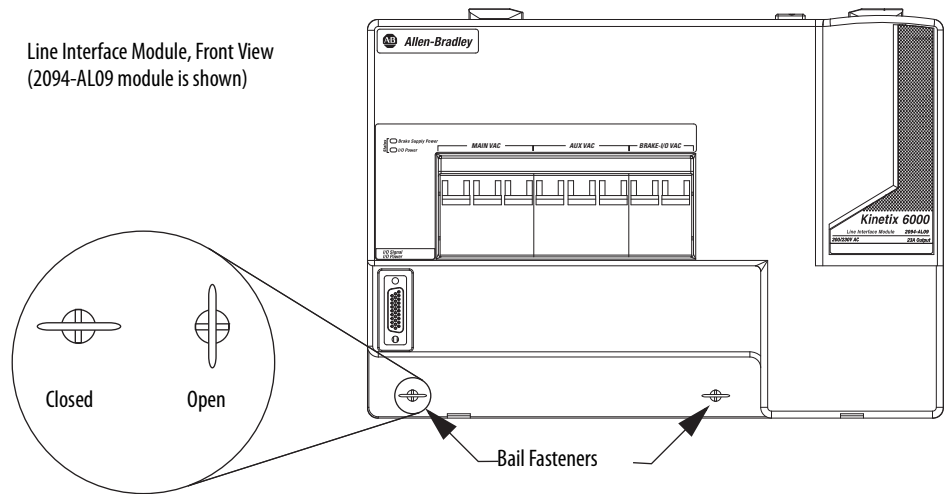
ATTENTION: To avoid hazard of electrical shock, verify that all voltage on the capacitors has been discharged before attempting to service, repair, or remove this unit. This product contains stored energy devices. You should only attempt the procedures in this document if you are qualified to do so and familiar with solid-state control equipment and the safety procedures in publication NFPA 70E.

3. Determine where to start disassembly.

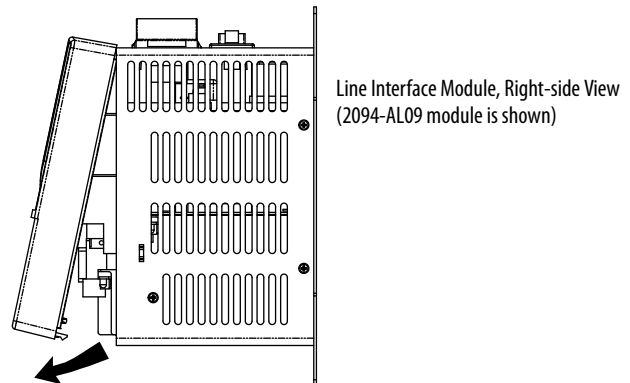
For this LIM Module	Do this
2094-ALxxS, 2094-BLxxS, or 2094-XL75S-Cx	Go to step 4 .
2094-AL09 or 2094-BL02	Go to step 6 .

4. Open the IO (IOL) connector access door.
5. Disconnect the IO (IOL) connector.

6. Locate the two bail fasteners (lower front cover) and rotate them one quarter turn in either direction.



7. Slide the cover away and down from the LIM module.



8. To replace the LIM module front cover, reverse steps 6 and 7.

Remove the Circuit Breakers

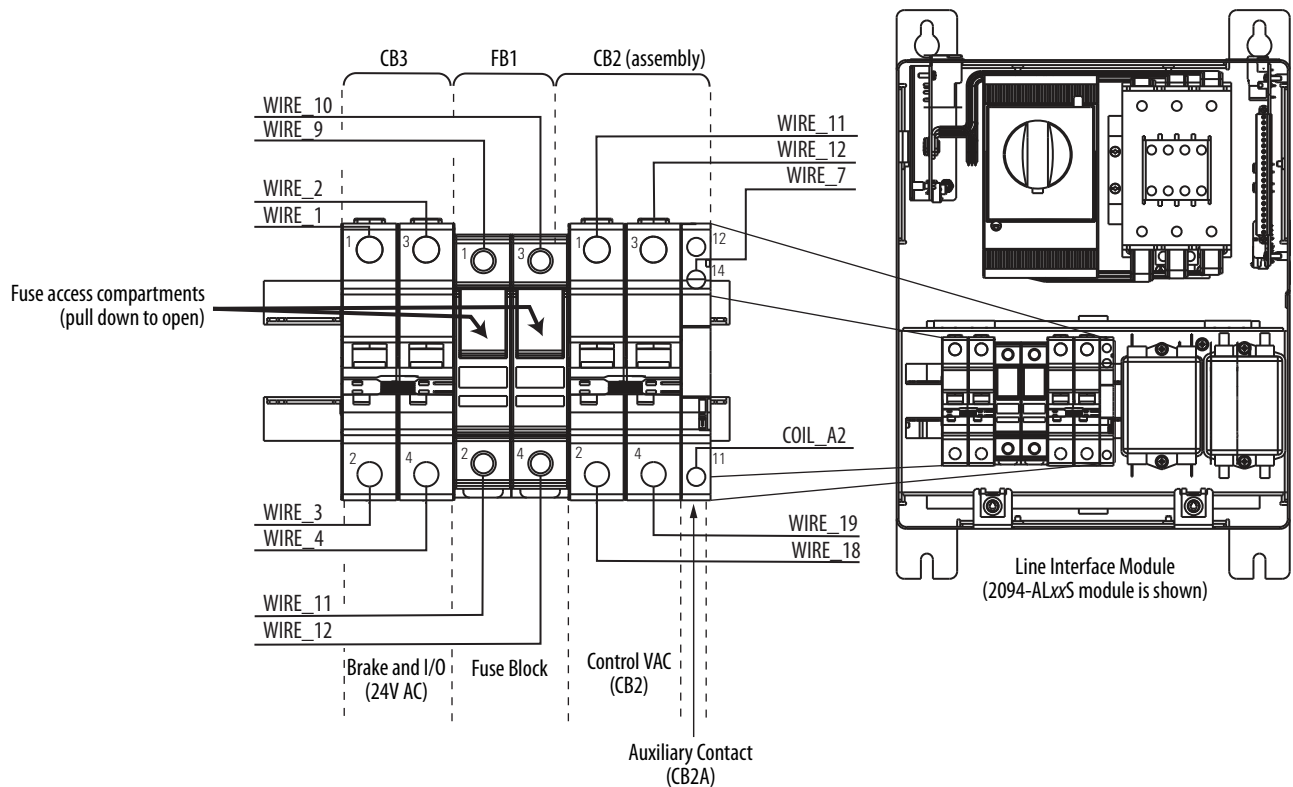
You will need a screwdriver to remove circuit breakers.

Follow these steps to remove LIM module circuit breakers.

1. Verify that all power is removed from the LIM module as described in [Remove/Replace the Front Cover](#) on [page 6](#).
2. Locate the Main VAC (CB1), Control VAC (CB2), and Brake - I/O (CB3) circuit breakers and Fuse Block (FB1).

Fuse block FB1 is present only in the 2094-ALxxS, 2094-BLxxS, and 2094-XL75S-Cx.

Figure 1 - Locating CB3, FB1, CB2A, and CB2 (2094-ALxxS and 2094-XL75S-Cx)



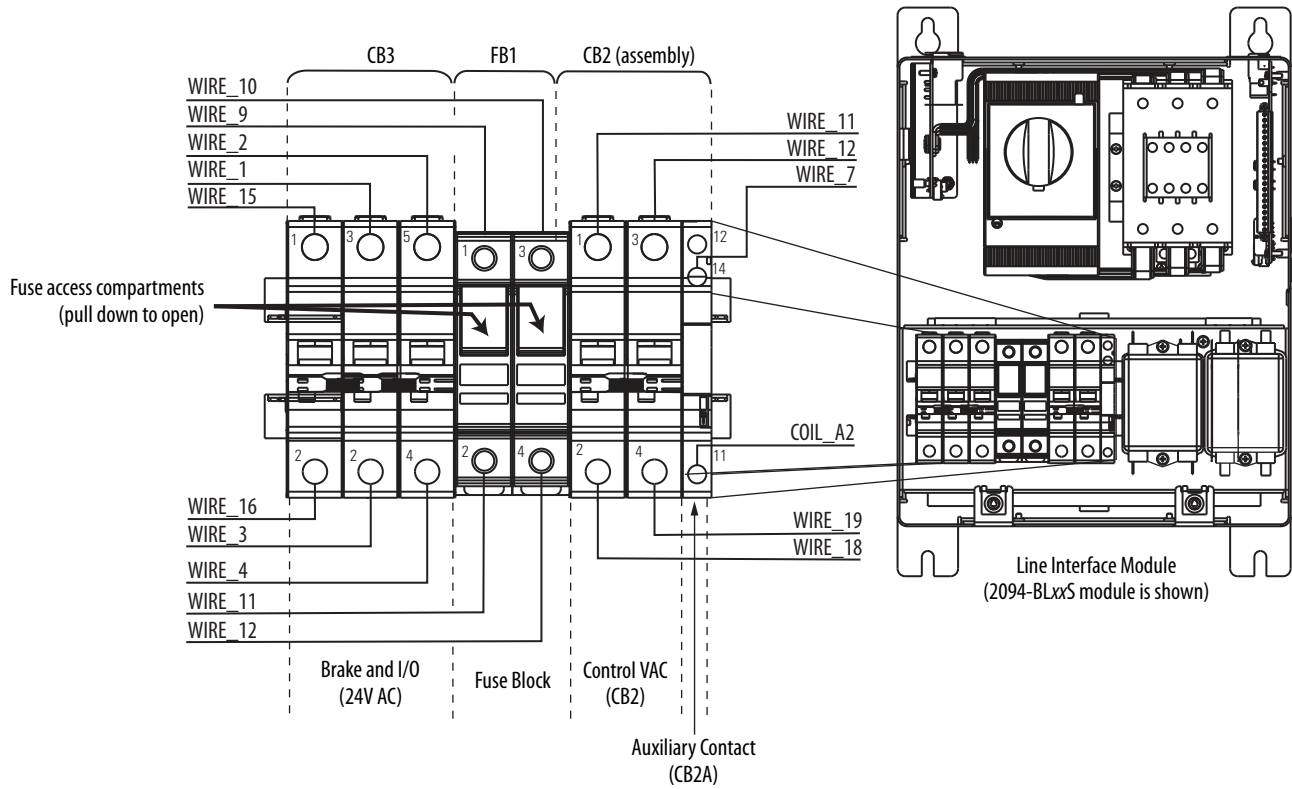
IMPORTANT

Main VAC (CB1) in 2094-ALxxS, 2094-BLxxS, and 2090-XL75S-Cx models is not field replaceable.

IMPORTANT

[Figure 1](#) shows CB2 (part number 1492-SPMxxxxx) and CB2A (part number 189-ASCR3). CB2 and CB2A will be in opposite locations if the respective part numbers are (1492-SPxxxxx) and (1492-ASPH3).

Figure 2 - Locating CB3, FB1, CB2A, and CB2 (2094-BLxxS)



IMPORTANT Main VAC (CB1) in 2094-ALxxS, 2094-BLxxS, and 2090-XL755-Cx models is not field replaceable.

IMPORTANT [Figure 2](#) shows CB2 (part number of 1492-SPMxxxxx) and CB2A (part number 189-ASCR3). CB2 and CB2A will be in opposite locations if the respective part numbers are (1492-SPxxxxx) and (1492-ASPH3).

Figure 3 - Locating CB1, CB2_AUX, CB2, and CB3 (2094-AL09)

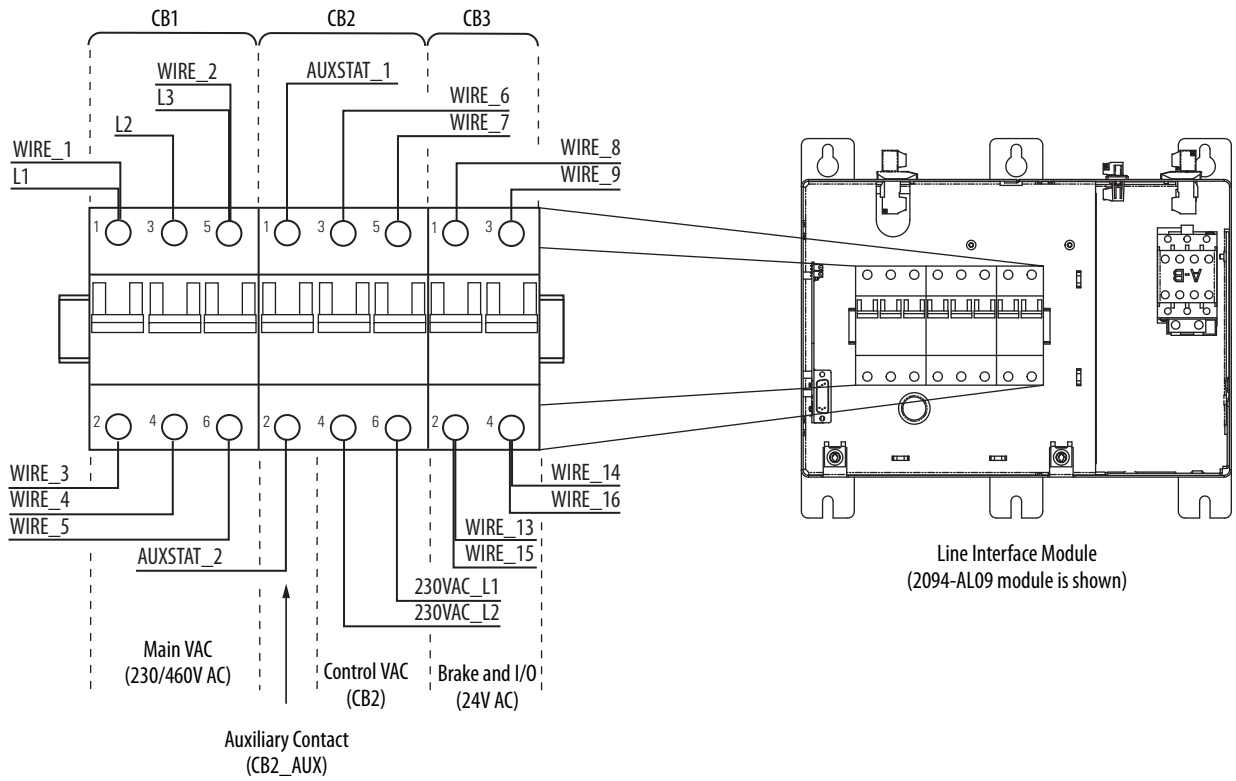
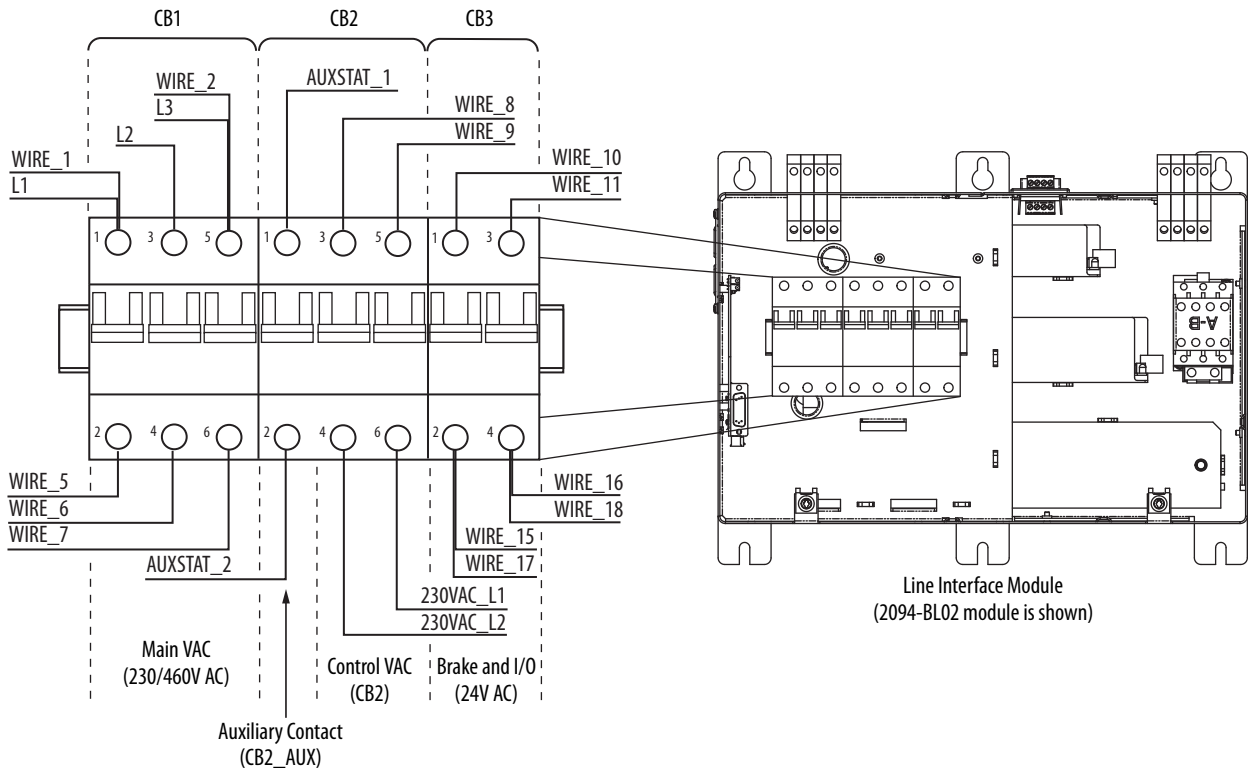
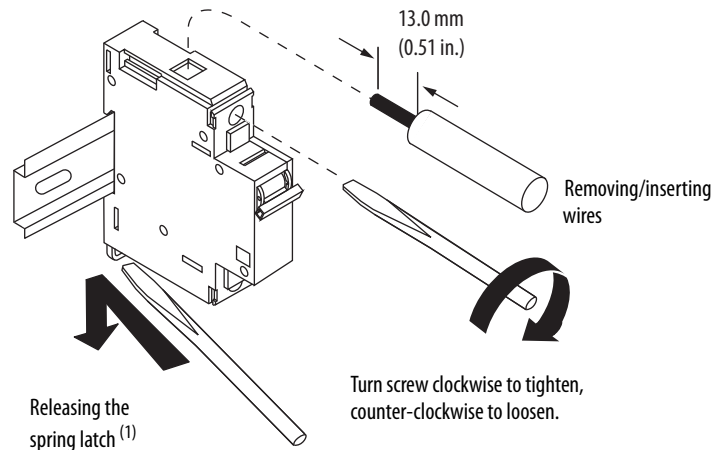


Figure 4 - Locating CB1, CB2_AUX, CB2, and CB3 (2094-BL02)



3. Remove wiring from the top and bottom circuit breaker terminals and label each wire if not already done.
4. Using a screwdriver, release the spring latch beneath each circuit breaker while pulling the breaker up and away from the DIN rail.



⁽¹⁾ You may need two screwdrivers to release the control circuit breaker (CB2) and auxiliary contact latch on 2094-ALxxS, 2094-BLxxS, and 2094-XL75S modules at the same time.

Replace the Circuit Breakers

You will need a screwdriver to replace circuit breakers.

IMPORTANT

When replacing CB2 (part number 1492-SPxxxx) with the replacement CB2 indicated in [Table 2](#), CB2A will also need to be replaced. See [Table 2](#) for the CB2A replacement part number.

Follow these steps to replace LIM module circuit breakers.

1. Verify that all power is removed from the LIM module as described in [Remove/Replace the Front Cover](#) on [page 6](#).
2. Insert the screwdriver (as shown in the figure above) and release the spring latch while setting the replacement breaker into position on the DIN rail.

For replacement component part numbers, refer to [Table 2](#) and [Table 3](#) on [page 4](#).

3. Remove the screwdriver to set the latch.
4. Reconnect the circuit breaker wiring. Torque set screws to 2.3...2.5 N•m (20...22 lb•in).

Refer to the wire labels (as shown in the figures beginning on [page 8](#)) and/or [Block Diagrams](#) (beginning on [page 17](#)) when reconnecting the circuit breaker wiring.

Remove the Auxiliary Contact

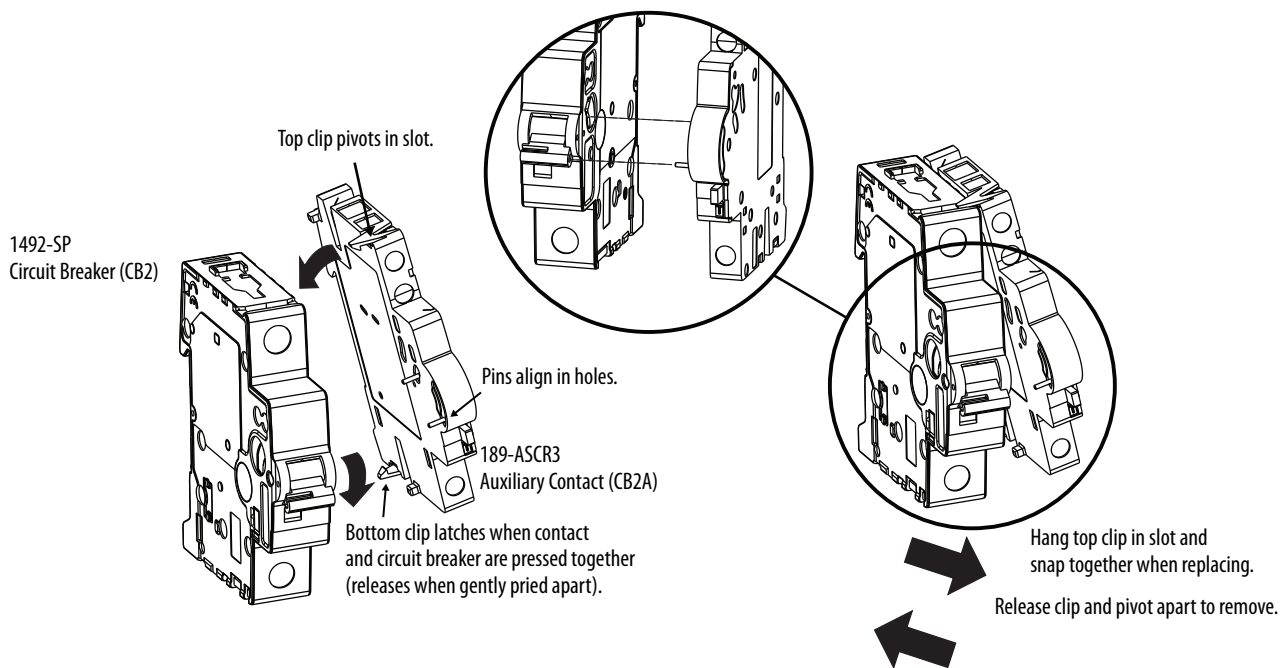
You will need a screwdriver to remove the CB2A auxiliary contact from the CB2 control circuit breaker.

IMPORTANT This procedure applies to only the auxiliary contact in 2094-ALxxS, 2094-BLxxS, and 2094-XL75S-Cx LIM modules. Other LIM modules do not have an auxiliary contact.

IMPORTANT This procedure applies to only the auxiliary contact CB2A (189-ASCR3). Previous versions of the auxiliary contact CB2A (1492-ASPH3) must be replaced with a new circuit breaker CB2 and a new auxiliary contact CB2A.

Follow these steps to remove the auxiliary contact.

1. Verify that all power is removed from the LIM module as described in [Remove/Replace the Front Cover](#) on [page 6](#).
2. Remove the CB2 assembly (refer to [Remove the Circuit Breakers](#) beginning on [page 8](#) for instructions).
3. Locate the clip fastener on the bottom side of the auxiliary contact and use a screwdriver to gently pry the clip downward to release the contact.



4. Go to [Replace the Auxiliary Contact](#) on [page 13](#).

Replace the Auxiliary Contact

You will need a screwdriver to replace the CB2A auxiliary contact, which is connected to the CB2 control circuit breaker. For replacement component part numbers, refer to [Table 2](#) and [Table 3](#) on [page 4](#).

IMPORTANT This procedure applies to only the auxiliary contact in 2094-ALxxS, 2094-BLxxS, and 2094-XL75S-Cx LIM modules. Other LIM modules do not have an auxiliary contact.

IMPORTANT This procedure applies to only the auxiliary contact CB2A (189-ASCR3). Previous versions of the auxiliary contact CB2A (1492-ASPH3) must be replaced with a new circuit breaker CB2 and a new auxiliary contact CB2A.

Follow these steps to replace the auxiliary contact.

1. Verify that all power is removed from the LIM module as described in [Remove/Replace the Front Cover](#) on [page 6](#).
2. Hook the replacement auxiliary contact in the top slot (refer to the figure on [page 12](#) for an illustration).
3. Align pins and press CB2A and CB2 together until the bottom clip latches.

You will hear an audible click and the sides of the breakers will be flush.

4. Replace the CB2 assembly.

Refer to [Replace the Circuit Breakers](#) on [page 11](#) for instructions.

Remove and Replace the Fuse Block

You will need a screwdriver to remove and replace the fuse block from the DIN rail.

IMPORTANT This procedure applies only to FB1 in 2094-ALxxS, 2094-BLxxS, or 2094-XL75S-Cx LIM modules. Other LIM modules do not have a field replaceable fuse block.

Follow these steps to remove and replace fuse block FB1.

1. Verify that all power is removed from the LIM module as described in [Remove/Replace the Front Cover](#) on [page 6](#).
2. Locate FB1 inside your LIM module.

Refer to the [Figure 7](#) and [Figure 8](#) for the location of FB1.

3. Follow the circuit breaker removal and replacement procedures beginning on [page 8](#) to remove fuse block FB1 from the DIN rail.

Replace the (FB1) Fuses

No tools are required to replace FB1 fuses.

TIP It is not necessary to remove the LIM module front cover to access FB1 fuses.

IMPORTANT This procedure applies only to 2094-ALxxS, 2094-BLxxS, or 2094-XL75S-Cx LIM modules. There are no field replaceable fuses in other LIM modules.

Follow these steps to replace FB1 fuses.

1. Verify that all power is removed from the LIM module as described in [Remove/Replace the Front Cover](#) on [page 6](#).
2. Locate FB1 on the front of your LIM module.

Refer to the [Figure 7](#) and [Figure 8](#) for the location of FB1.

3. Pull down on the FB1 access compartments and replace fuses.
4. Push the access compartments closed.

Remove the Cooling Fan

Whenever input power is applied to the 2094-BL02 LIM module, the cooling fan will operate (even if the LIM module circuit breakers CB1, CB2, and CB3 are turned off). Fan life is approximately 20,000 hours.



ATTENTION: This procedure applies only to 2094-BL02 LIM modules.

To avoid damage to your 2094-BL02 LIM module, make sure the cooling fan is operational. Damaged or inoperable fans will cause the 2094-BL02 LIM module to fail.

You will need a #2 Phillips screwdriver to remove the cooling fan.

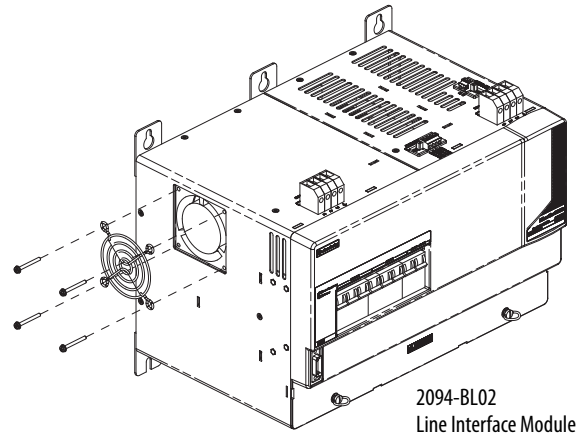
Follow these steps to remove the 2094-BL02 LIM module cooling fan.

1. Verify that all power is removed from the LIM module as described in [Remove/Replace the Front Cover](#) on [page 6](#).
2. Determine your ease of access to the cooling fan.

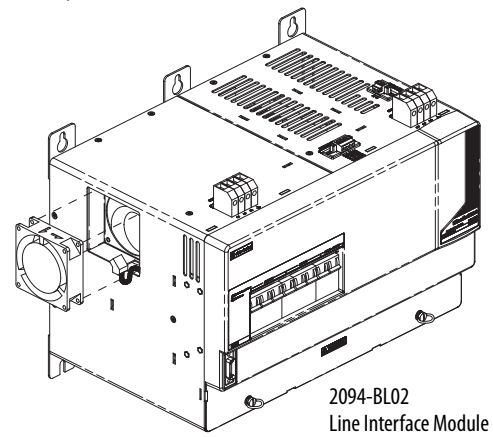
If access to the fan is	Then
Limited (insufficient clearance to access fan screws)	Remove the LIM module from the cabinet ⁽¹⁾ before proceeding to step 3 .
Not limited (adequate clearance to access fan screws)	Go to step 3 .

(1) For drive system component removal/replacement procedures, refer to the appropriate servo-drive user manual in [Additional Resources](#) on [page 22](#).

3. Remove the four Phillips screws that hold the finger guard and fan in place.



4. Set the finger guard aside.
5. Pull the fan away from the LIM module and disconnect the power cord.



6. Go to [Replace the Cooling Fan](#) on [page 16](#).

Replace the Cooling Fan

You will need a #2 Phillips screwdriver to replace the cooling fan.

Follow these steps to replace the LIM cooling fan.

1. Verify that all power is removed from the LIM module as described in [Remove/Replace the Front Cover](#) on [page 6](#).
2. Connect the replacement fan to the power cord and place the fan back inside the LIM module.



ATTENTION: To avoid damage to equipment make sure the fan is positioned so that airflow is in an outward direction (arrow on fan points away from the LIM module).

3. Replace the finger guard and the four Phillips screws. Torque screws to 0.9 N•m (8 lb•in).



ATTENTION: To avoid injury or damage to equipment, ensure the finger guard is in place before replacing the four screws.

Block Diagrams

Figure 5 through Figure 9 are block diagrams for the Bulletin 2094 LIM modules.

Figure 5 - LIM Module Block Diagram (2094-ALxxS)

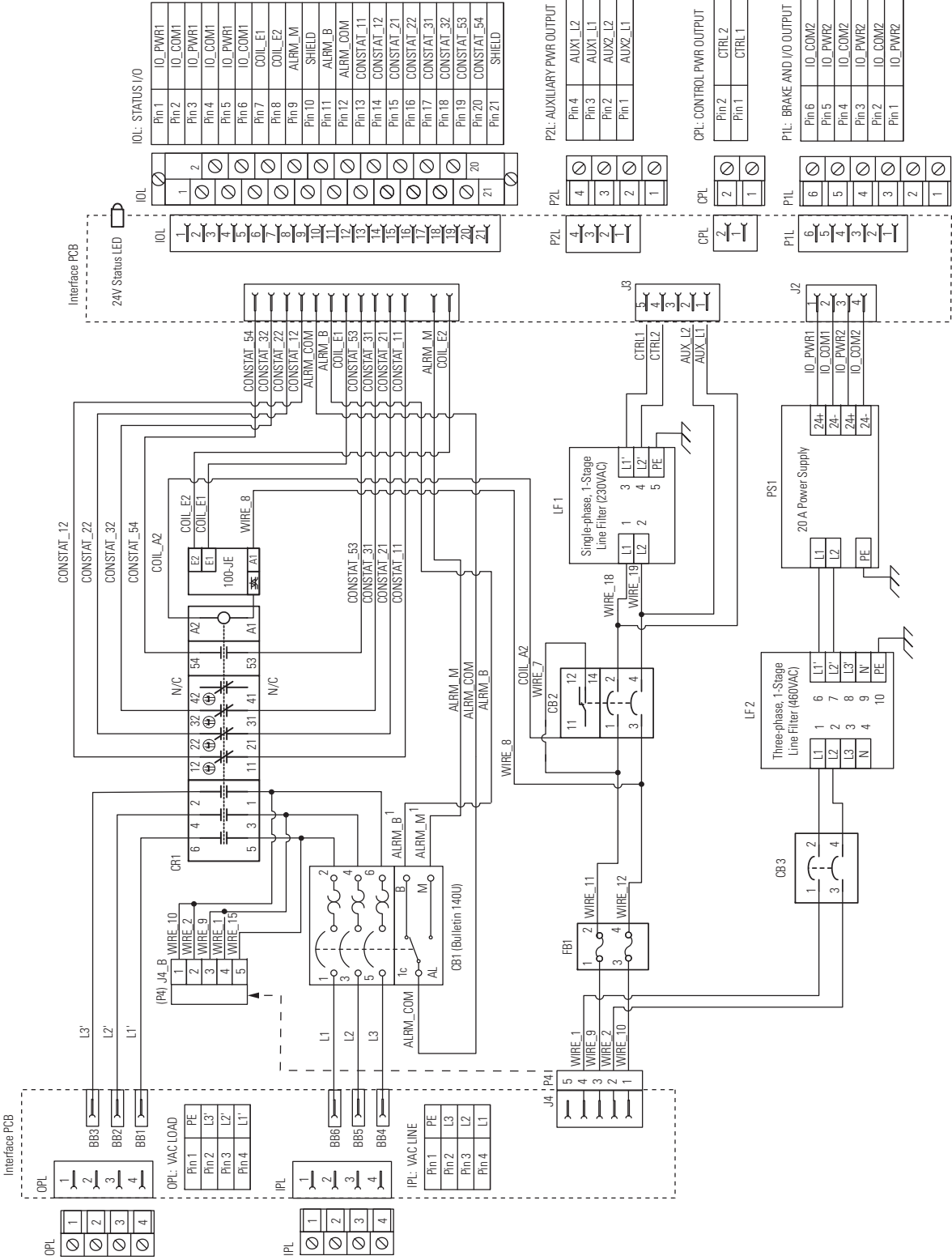


Figure 6 - LIM Module Block Diagram (2094-BLxxS)

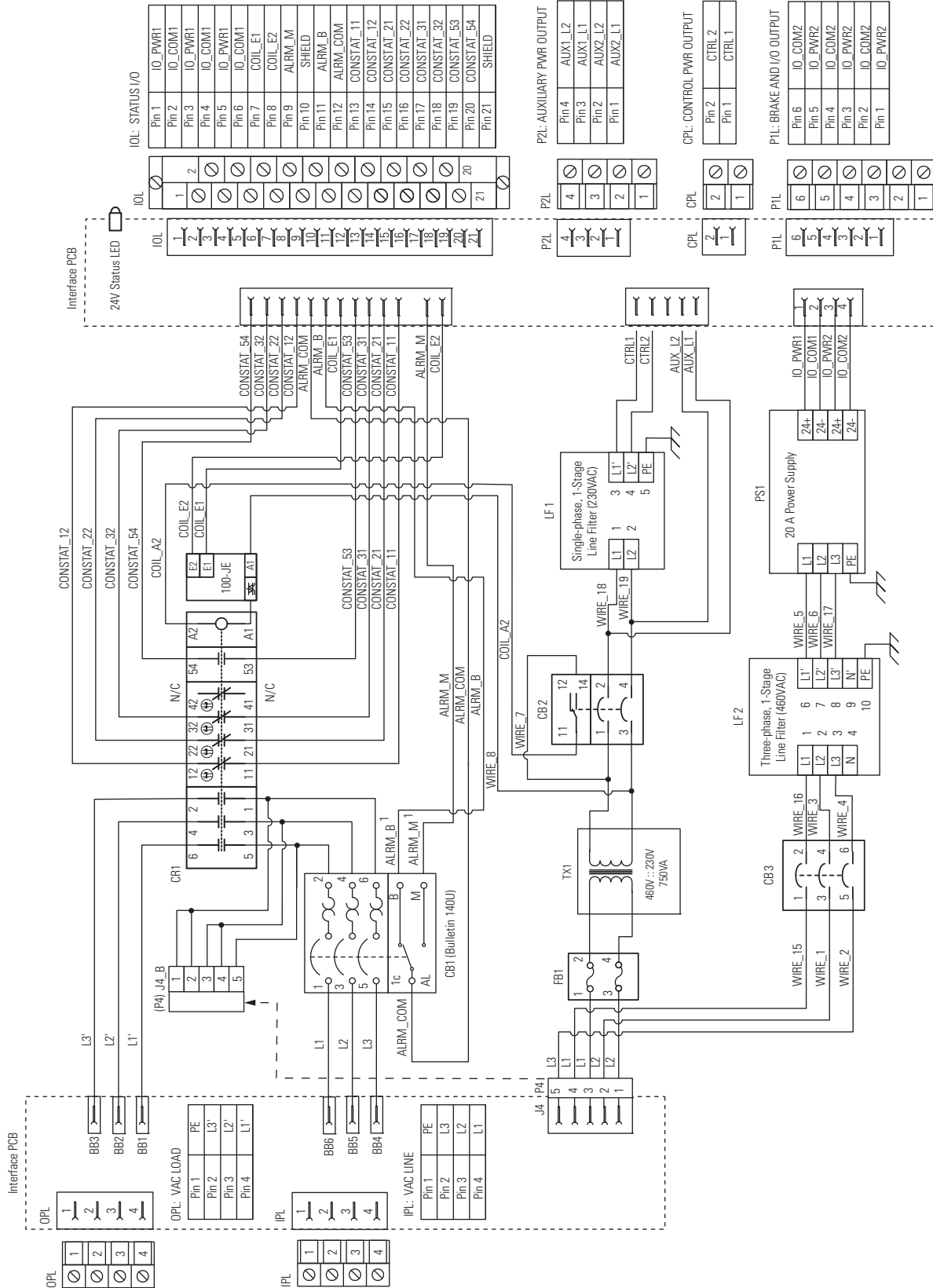


Figure 7 - LIM Module Block Diagram (2094-XL755-Cx)

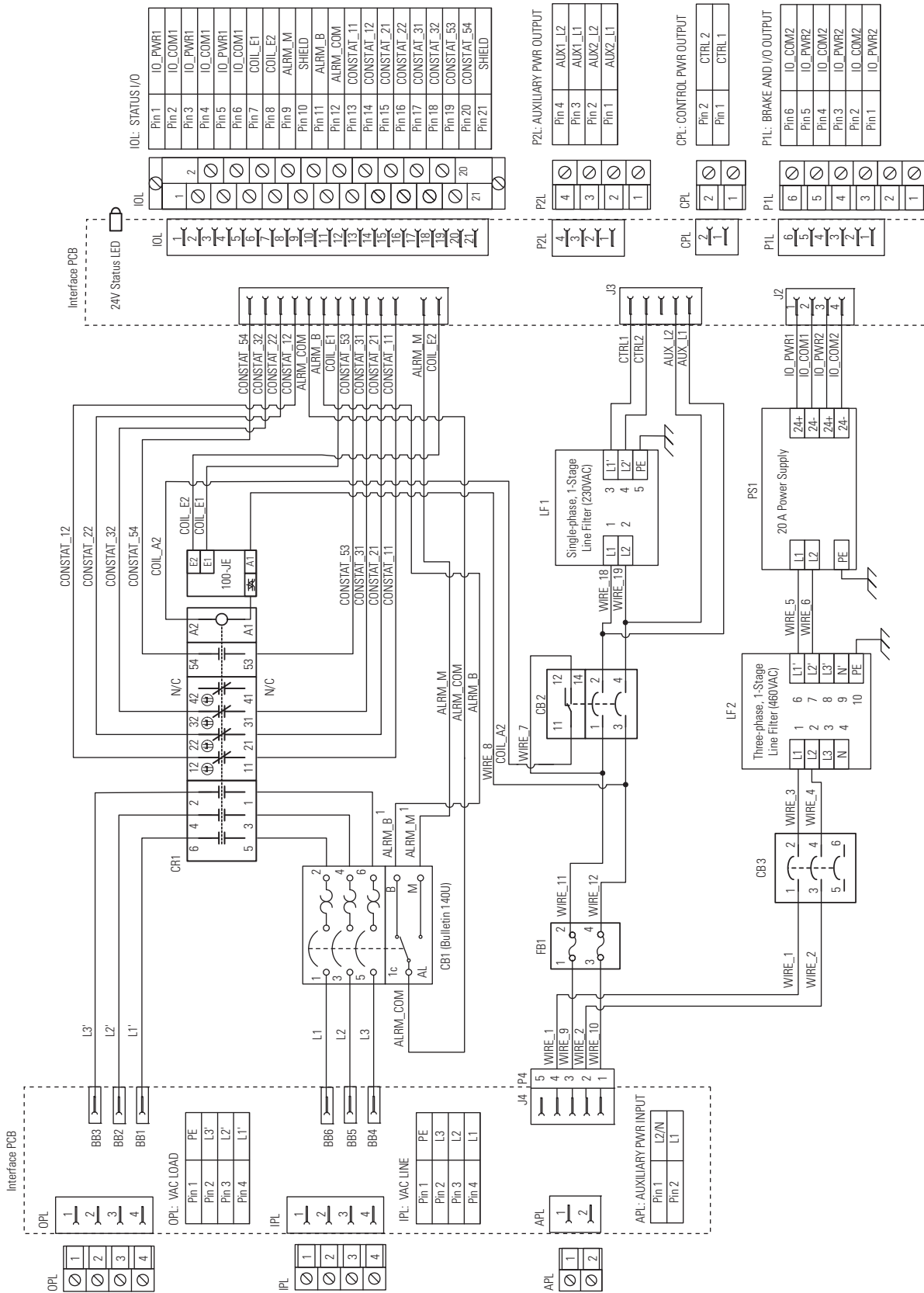


Figure 8 - LIM Module Block Diagram (2094-AL09)

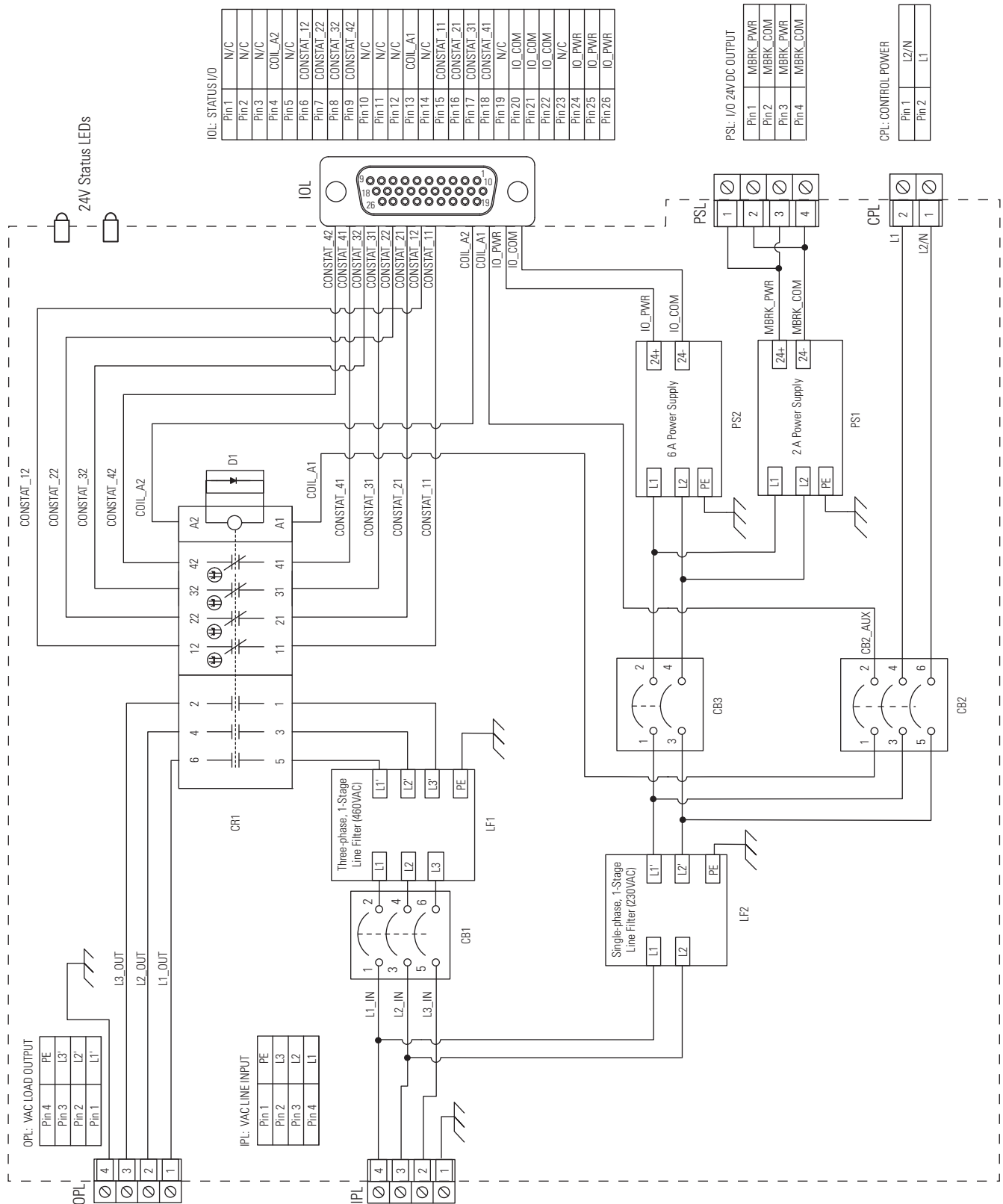
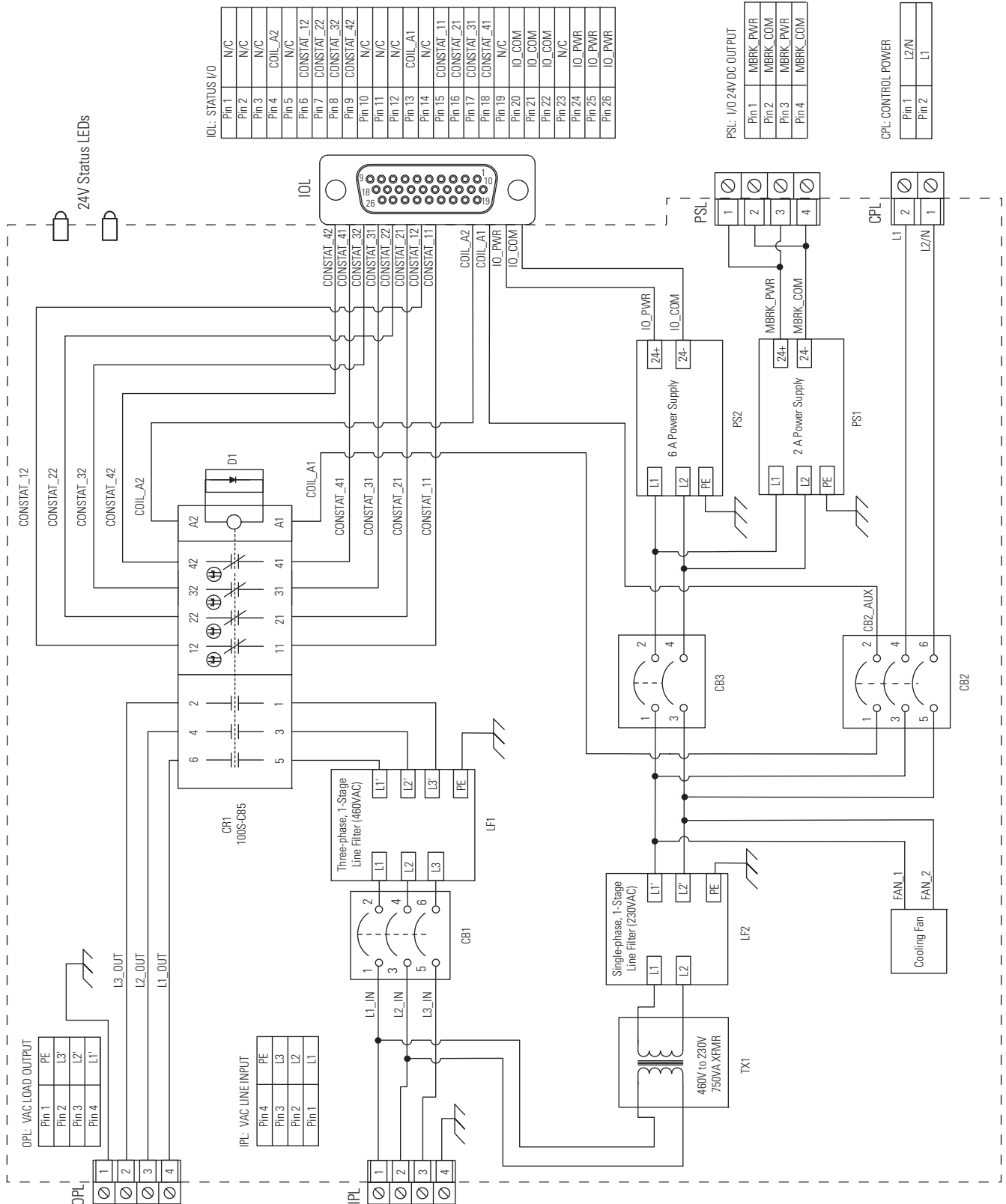


Figure 9 - LIM Module Block Diagram (2094-BL02)



IOL: STATUS I/O

Pin 1	N/C
Pin 2	N/C
Pin 3	N/C
Pin 4	COIL_A2
Pin 5	N/C
Pin 6	CONSTAT_12
Pin 7	CONSTAT_22
Pin 8	CONSTAT_32
Pin 9	CONSTAT_42
Pin 10	N/C
Pin 11	N/C
Pin 12	N/C
Pin 13	COIL_A1
Pin 14	N/C
Pin 15	CONSTAT_11
Pin 16	CONSTAT_21
Pin 17	CONSTAT_31
Pin 18	CONSTAT_41
Pin 19	N/C
Pin 20	IO_COM
Pin 21	IO_COM
Pin 22	IO_COM
Pin 23	N/C
Pin 24	IO_PWR
Pin 25	IO_PWR
Pin 26	IO_PWR

PSL: I/O 24V/DC OUTPUT

Pin 1	MBRK_PWR
Pin 2	MBRK_COM
Pin 3	MBRK_PWR
Pin 4	MBRK_COM

CPL: CONTROL POWER

Pin 1	L2/N
Pin 2	L1

Additional Resources

These documents contain additional information concerning related Rockwell Automation products.

Resource	Description
Kinetix 2000 Multi-axis Servo Drives User Manual, publication 2093-UM001	Mounting, wiring, setup with Studio 5000 Logix Designer® application, applying power, and troubleshooting information with appendices to support firmware upgrades and common bus applications.
Kinetix 6000 Multi-axis Servo Drives User Manual, publication 2094-UM001	
Kinetix 7000 High Power Servo Drives User Manual, publication 2099-UM001	
Line Interface Module Installation Instructions, publication 2094-IN005	Mounting, wiring, applying power, troubleshooting information, and product specifications for the Bulletin 2094 LIM modules.
2094 Mounting Brackets Installation Instructions, publication 2094-IN008	Information on installing 2094 mounting brackets for use with 2094 power rails or LIM modules.
Kinetix Motion Control Selection Guide, publication GMC-SG001	Specifications, motor/servo-drive system combinations, and accessory items for Kinetix Motion Control products.
Kinetix Motion Accessories Specifications, publication GMC-TD004	Product specifications for Bulletin 2090 motor and interface cables, low-profile connector kits, drive power components, and other servo drive accessory items.
Motion Analyzer Sizing and Selection Tool, https://motionanalyzer.rockwellautomation.com	Online tool for sizing and selecting servo drive systems with the compatible motor, actuator, and accessories required for each axis.
Resistive Brake Module Installation Instructions, publication 2090-IN009	Information on the installation and wiring of the Bulletin 2090 Resistive Brake Module (RBM).
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	
Understanding the Machinery Directive, publication SHB-900	A road map to CE marking and safety-related control product applications.
Rockwell Automation Product Certification website, http://www.ab.com	For declarations of conformity (DoC) currently available from Rockwell Automation.
National Electrical Code, published by the National Fire Protection Association of Boston, MA	An article on wire sizes and types for grounding electrical equipment.
Allen-Bradley Industrial Automation Glossary, publication AG-7.1	A glossary of industrial automation terms and abbreviations.

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Notes:

Rockwell Automation Support

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At <http://www.rockwellautomation.com/support> you can find technical and application notes, sample code, and links to software service packs. You can also visit our Support Center at <https://rockwellautomation.custhelp.com/> for software updates, support chats and forums, technical information, FAQs, and to sign up for product notification updates.

In addition, we offer multiple support programs for installation, configuration, and troubleshooting. For more information, contact your local distributor or Rockwell Automation representative, or visit <http://www.rockwellautomation.com/services/online-phone>.

Installation Assistance

If you experience a problem within the first 24 hours of installation, review the information that is contained in this manual. You can contact Customer Support for initial help in getting your product up and running.

United States or Canada	1.440.646.3434
Outside United States or Canada	Use the Worldwide Locator at http://www.rockwellautomation.com/rockwellautomation/support/overview.page , or contact your local Rockwell Automation representative.

New Product Satisfaction Return

Rockwell Automation tests all of its products to help ensure that they are fully operational when shipped from the manufacturing facility. However, if your product is not functioning and needs to be returned, follow these procedures.

United States	Contact your distributor. You must provide a Customer Support case number (call the phone number above to obtain one) to your distributor to complete the return process.
Outside United States	Please contact your local Rockwell Automation representative for the return procedure.

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