

# PowerFlex 755 AC Drives

Floor Mount Frame 8 and Larger



## 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.

No patent liability is assumed by Rockwell Automation, Inc. with respect to use of information, circuits, equipment, or software described in this manual.

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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.

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### IMPORTANT

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

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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).

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This manual revision contains the following new and updated information.

Topic	Page
Updated the Remove Power from the Drive procedure for current lock out tag out information.	<a href="#">23</a>
Updated the Spare Part Compatibility with Series A and Series B Drives table to include current drive components and catalog numbers.	<a href="#">28</a>
Updated the Series A, B, and C Converter Components and Drive Input Power Compatibility table to identify series C compatible components and catalog numbers.	<a href="#">29</a>
Added Connected Components Workbench™ software to the list of software tools that support PowerFlex 750-Series drives.	<a href="#">30</a>
Updated the Recommended Drives Maintenance Tasks and Schedule tables to include new parts.	<a href="#">37</a>
Updated the Converter Components Identification table to include current drive components availability.	<a href="#">78</a>
Updated the Converter Assembly Components Diagram 1 to include new components.	<a href="#">81</a>
Updated the Converter Assembly Components Diagram 2 to include new components.	<a href="#">82</a>
Added the new Converter Input Fuse Stirring Fan Removal/Installation procedure.	<a href="#">91</a>
Updated the AC Line Fuse Removal/Installation procedures to include the input fuse stirring fan removal step.	<a href="#">95</a>
Updated the DC Input with Precharge Assembly Components Identification table to include the new DC input with precharge unit catalog number.	<a href="#">154</a>
Updated the DC Input with Precharge Assembly Components Identification table to include the DC precharge control board stirring fan.	<a href="#">154</a>
Updated the DC Input with Precharge Assembly Components Diagram 2 table to include the DC precharge control board stirring fan.	<a href="#">158</a>
Added the new DC Input with Precharge Assembly Left Cover and Interlock Assembly Replacement instructions.	<a href="#">160</a>
Updated the Disconnect Switch Handle Removal/Installation instructions to reflect removing the rotary handle from the front cover.	<a href="#">199</a>
Added the new DC Precharge Control Board Stirring Fan Removal/Installation instructions.	<a href="#">211</a>
Updated the Inverter EMC Capacitor Removal/Installation (AC Input Drive Only) procedure to include new EMC capacitors.	<a href="#">264</a>
Added the IP20, NEMA/UL Type 1 Debris Screen Removal/Installation procedure.	<a href="#">299</a>
Updated the Option-bay Enclosure Components Identification table to include new components and catalog numbers.	<a href="#">340</a>
Updated the Frame 9 Thermostat and Wire Harness Removal/Installation instructions to include an illustration of the new circuit breaker disconnect handle panel.	<a href="#">372</a>
Updated the Frame 9 Main Control-panel Wire Harness Removal/Installation procedures to include a step for the new door interlock connections.	<a href="#">375</a>
Added the new Frame 8 AC Input IP20 Option Bay Without a Control Transformer Schematic Diagram.	<a href="#">424</a>
Added the new Frame 8 AC Input IP20 Option Bay With a Control Transformer Schematic Diagram.	<a href="#">425</a>
Added the new Frame 8 AC Input IP54 Option Bay Schematic Diagram.	<a href="#">426</a>
Added the new Frame 9 AC Input Option Bay Schematic Diagram.	<a href="#">427</a>
Added the new Appendix C Drive-compatible Circuit Breakers, Molded Case Switches, Contactors, and Line Reactors.	<a href="#">445</a>