



PowerFlex 755TS Drives DC Fuses and Fuse Holder Kits

Catalog Numbers 20-750-DCFH-51, 20-750-DCFH-NH1, 20-750-DCFH-NH1X, 20-750-DCFH-NH2, 20-750-DCFH-NH3, 20-750-DCFUSE1-*nnA*, 20-750-DCFUSE3-*nnA*, 20-750-DCFUSE3-*nnnA*, 20-750-DCFUSE3ES-*nnA*, 20-750-DCFUSE3S-*nnnA*, 20-750-DCFUSE4E-*nnA*, 20-750-DCFUSE5EFS-*nnA*, 20-750-DCFUSE5EFS-*nnnA*, 20-750-DCFUSE5S-*nnnA*, 20-750-DCFUSE6EFS-*nnnA*, 20-750-DCFUSE6S-*nnnA*

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The DC fuse and fuse holder kits are recommended for short circuit protection of PowerFlex® 755TS DC input drives installed in common bus applications. These fuse kits provide short circuit and overload protection for PowerFlex 755TS frames 1...4, and short circuit protection for PowerFlex 755TS frames 5...7 as defined by UL and IEC fuse standards. For fuse ratings, specifications, and product compatibility, see the PowerFlex 750TS Products with TotalFORCE® Control Technical Data publication [750-TD104](#).

Product Advisories

Qualified Personnel



ATTENTION: Only qualified personnel, which are trained and approved to install PowerFlex 755TS products and familiar with associated machinery, should plan or implement the installation, start-up, and subsequent maintenance of the system. Failure to comply can result in personal injury and/or equipment damage.

Personal Safety



ATTENTION: The information that is contained in this publication is merely a guide for proper installation. Rockwell Automation, Inc. cannot assume responsibility for the compliance or the noncompliance to any code, national, local or otherwise for the proper installation of this drive or associated equipment. A hazard of personal injury and/or equipment damage exists if codes are ignored during installation.



ATTENTION: To avoid an electric shock hazard, the installer must provide guarding to shield exposed electrical equipment against accidental contact. Exposed electrical components that carry potentially hazardous voltages are identified in this manual. When installing this equipment, consider the design and placement of guarding to help prevent personal injury or equipment damage.

Product Safety



ATTENTION: An incorrectly applied or installed drive system can result in component damage or a reduction in product life. Wiring or application errors such as an under-sized motor, incorrect or inadequate AC supply, or excessive surrounding air temperatures can result in malfunction of the system.

Before You Begin

These system components are customer-supplied:

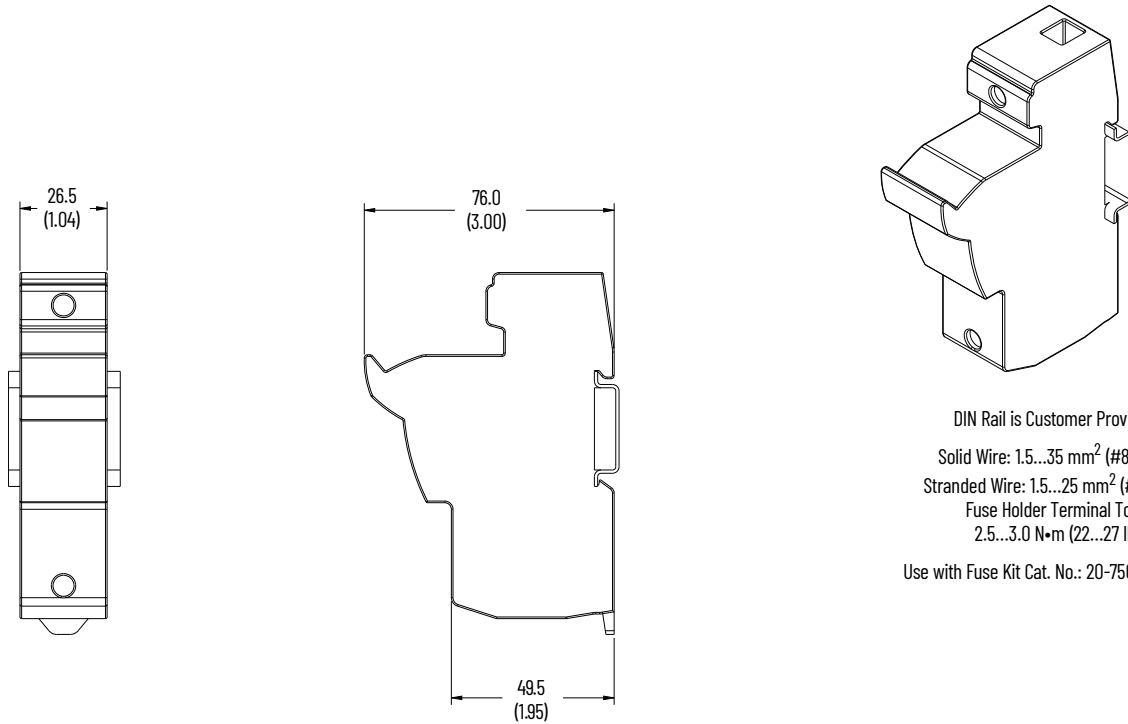
- DIN rail and mounting hardware for fuse holder kit catalog number 20-750-DCFH-51
- Mounting hardware for fuse holder kit catalog numbers 20-750-DCFH-NH1, 20-750-DCFH-NH1X, 20-750-DCFH-NH2, and 20-750-DCFH-NH3
- Appropriately sized, UL-listed, barrel lugs for installation on your power cables. For wire specifications and installation, see Power Wiring in the PowerFlex 750TS Products with TotalFORCE Control Installation Instructions, publication [750-IN119](#).

Fuse Holder Kit Contents and Dimensions

Each fuse holder kit contains two fuse holders. Use these dimensions to prepare the mounting surface for the fuse holder kit installation. Fuse holder kits do not include DIN rail or mounting hardware.

Fuse Holder Catalog Number 20-750-DCFH-51 Dimensions

Dimensions are in millimeters and (inches)



DIN Rail is Customer Provided

Solid Wire: 1.5...35 mm² (#8...16 AWG)

Stranded Wire: 1.5...25 mm² (#6...16 AWG)

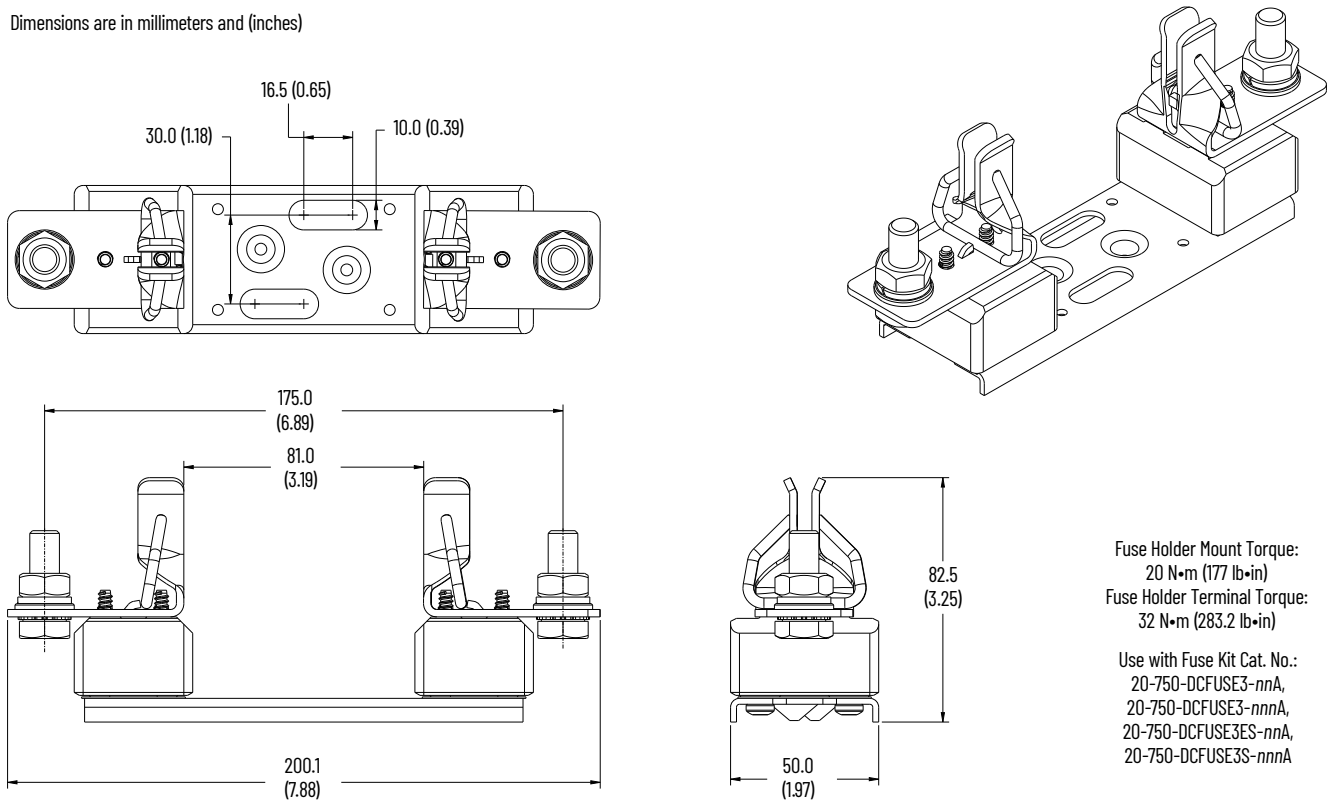
Fuse Holder Terminal Torque:

2.5...3.0 N•m (22...27 lb•in)

Use with Fuse Kit Cat. No.: 20-750-DCFUSE1-*nnA*

Fuse Holder Catalog Number 20-750-DCFH-NH1 Dimensions

Dimensions are in millimeters and (inches)



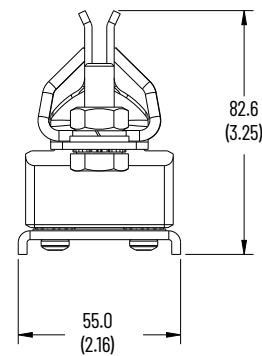
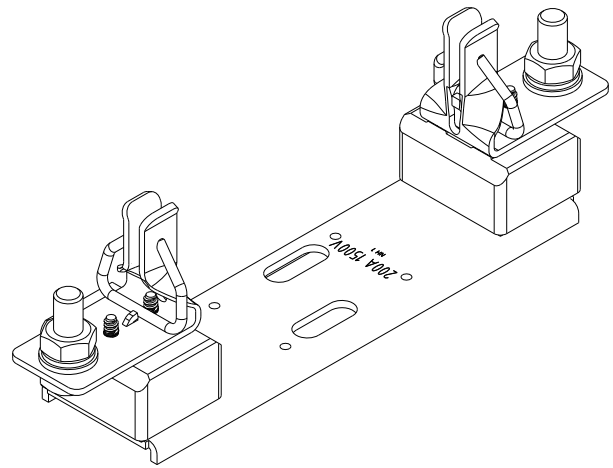
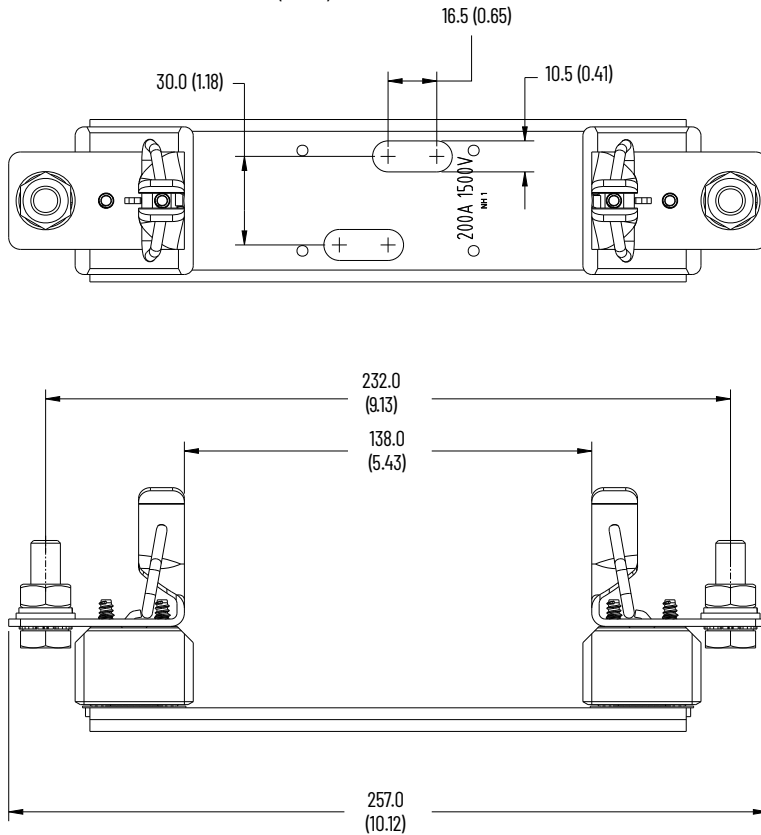
Fuse Holder Mount Torque:
20 N•m (177 lb•in)

Fuse Holder Terminal Torque:
32 N•m (283.2 lb•in)

Use with Fuse Kit Cat. No.:
20-750-DCFUSE3-*nnA*,
20-750-DCFUSE3-*nnnA*,
20-750-DCFUSE3ES-*nnA*,
20-750-DCFUSE3S-*nnnA*

Fuse Holder Catalog Number 20-750-DCFH-NH1X Dimensions

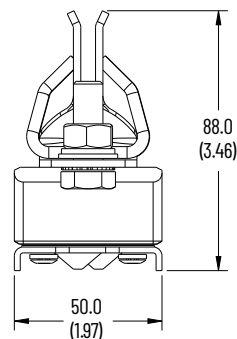
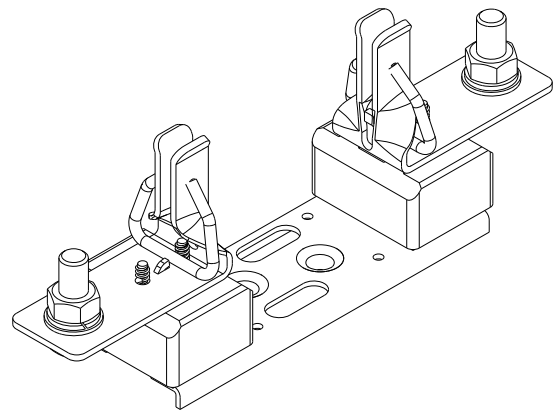
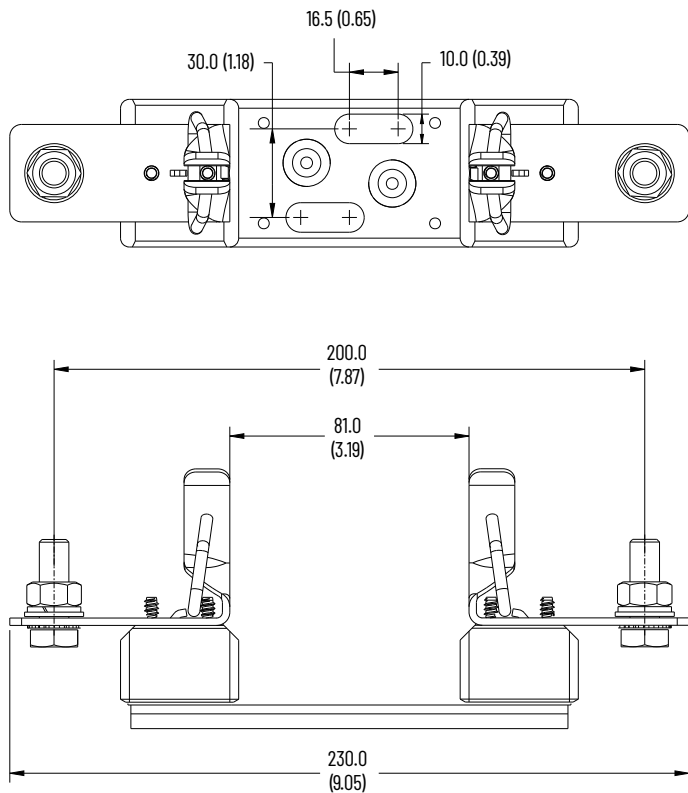
Dimensions are in millimeters and (inches)



Fuse Holder Mount Torque:
20 N•m (177 lb•in)
Fuse Holder Terminal Torque:
32 N•m (283.2 lb•in)
Use with Fuse Kit Cat. No.:
20-750-DCFUSE4E-nnA

Fuse Holder Catalog Number 20-750-DCFH-NH2 Dimensions

Dimensions are in millimeters and (inches)

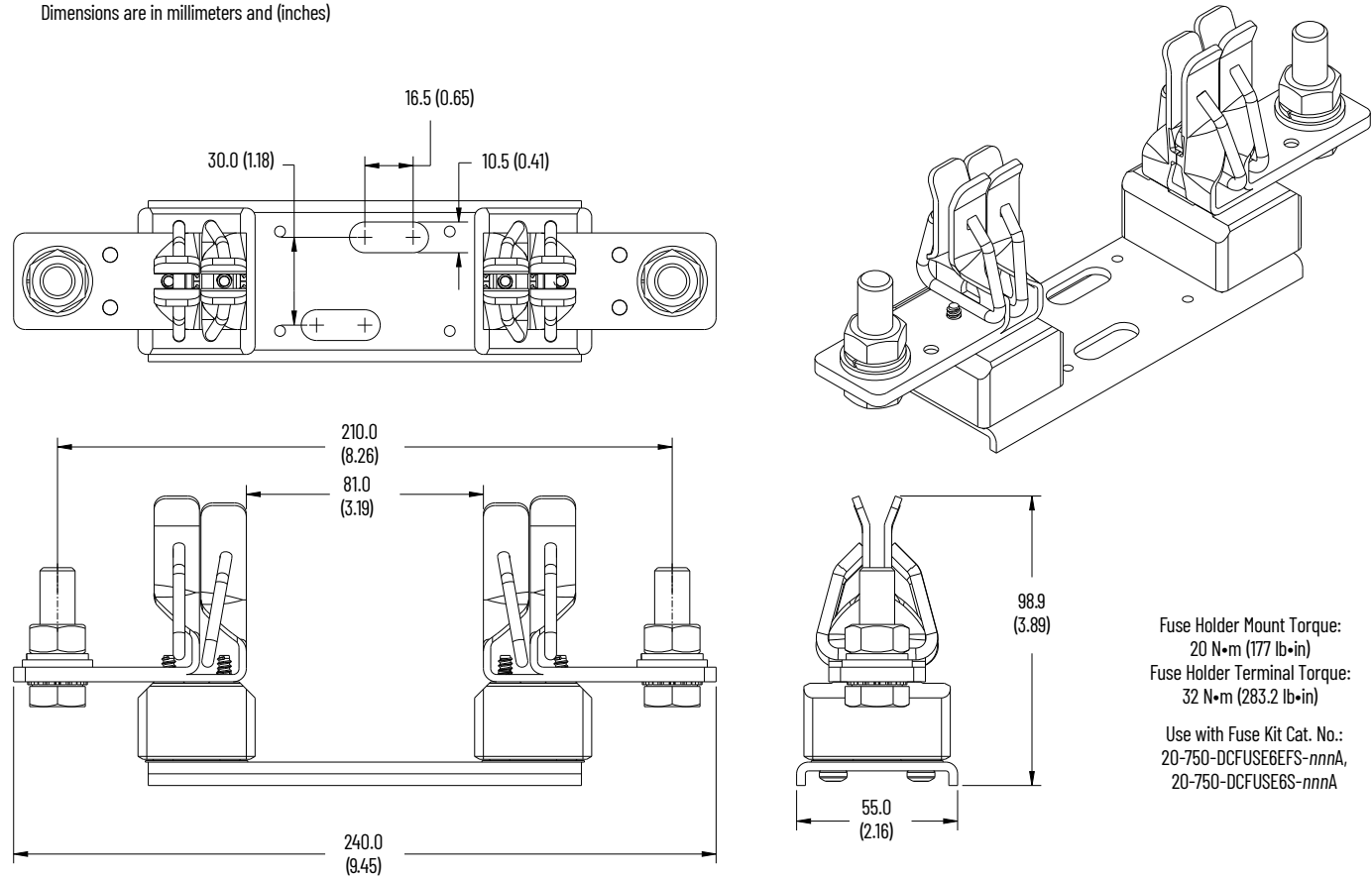


Fuse Holder Mount Torque:
20 N•m (177 lb•in)
Fuse Holder Terminal Torque:
32 N•m (283.2 lb•in)

Use with Fuse Kit Cat. No.:
20-750-DCFUSE5EFS-nnA,
20-750-DCFUSE5EFS-nnnA,
20-750-DCFUSE5S-nnnA

Fuse Holder Catalog Number 20-750-DCFH-NH3 Dimensions

Dimensions are in millimeters and (inches)



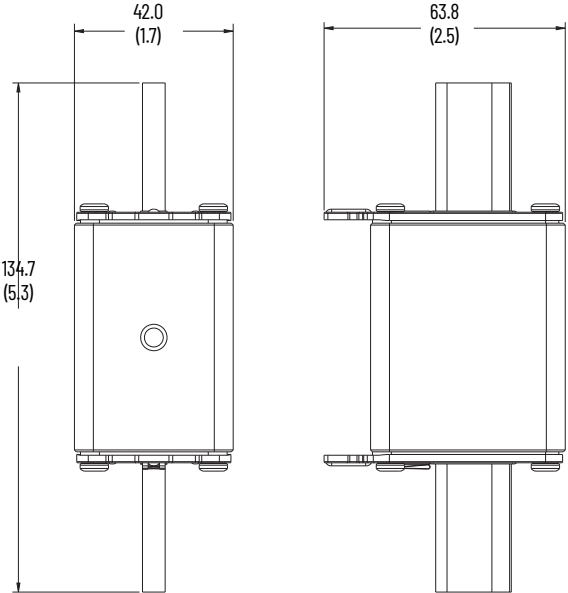
Fuse Holder Mount Torque:
20 N•m (177 lb•in)
Fuse Holder Terminal Torque:
32 N•m (283.2 lb•in)
Use with Fuse Kit Cat. No.:
20-750-DCFUSE6EFS-*nnnA*,
20-750-DCFUSE6S-*nnnA*

Fuse Kit Contents

Each of these fuse kits contains two fuses: 20-750-DCFUSE1-*nnA*, 20-750-DCFUSE3-*nnA*, 20-750-DCFUSE3-*nnnA*, 20-750-DCFUSE3ES-*nnA*, 20-750-DCFUSE3S-*nnnA*, 20-750-DCFUSE4E-*nnA*, 20-750-DCFUSE5EFS-*nnA*, 20-750-DCFUSE5EFS-*nnnA*, 20-750-DCFUSE5S-*nnnA*, 20-750-DCFUSE6EFS-*nnnA*, and 20-750-DCFUSE6S-*nnnA*.

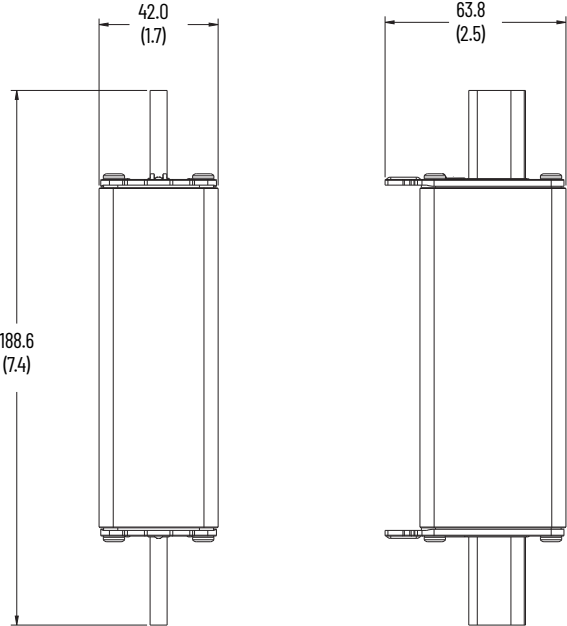
Fuse Dimensions

Catalog Numbers: 20-750-DCFUSE3-*nnA*, 20-750-DCFUSE3-*nnnA*,
20-750-DCFUSE3ES-*nnA*, 20-750-DCFUSE3S-*nnnA*



Use with Fuse Holder Kit Cat. No.: 20-750-DCFH-NH1

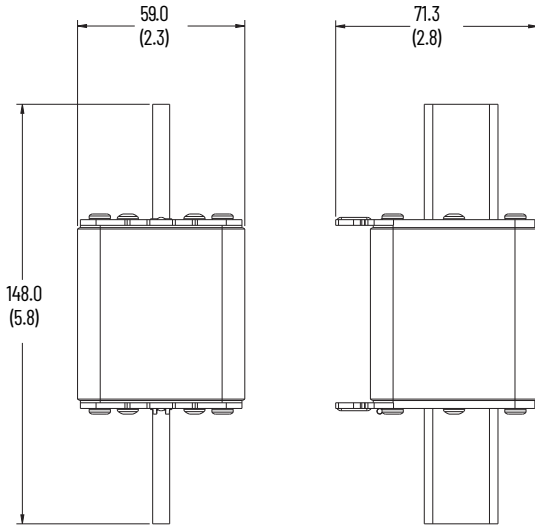
Catalog Number: 20-750-DCFUSE4E-*nnA*



Use with Fuse Holder Kit Cat. No.: 20-750-DCFH-NH1X

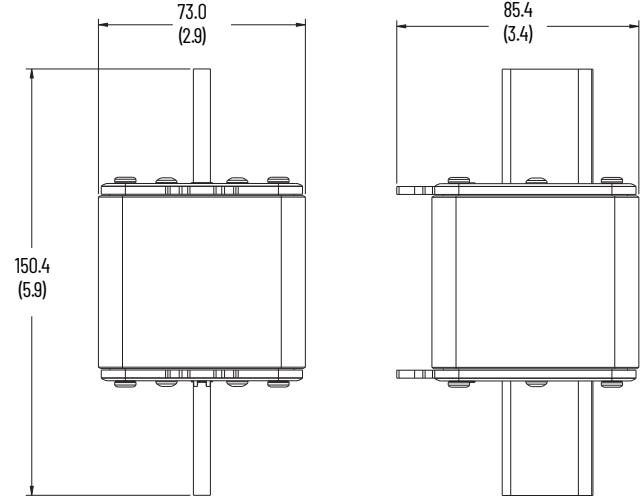
Fuse Dimensions, Continued

Catalog Numbers: 20-750-DCFUSE5EFS-*nn*A, 20-750-DCFUSE5EFS-*nnn*A,
20-750-DCFUSE5S-*nnn*A



Use with Fuse Holder Kit Cat. No.: 20-750-DCFH-NH2

Catalog Numbers: 20-750-DCFUSE6EFS-*nnn*A, 20-750-DCFUSE6S-*nnn*A



Use with Fuse Holder Kit Cat. No.: 20-750-DCFH-NH3

Dimensions are in
millimeters and (inches)

Required Tools

Tool Description	Details
Crimp tools	For cable terminals 1.5...240
Drill w/bits	Appropriate size for mounting surface preparation
Torque wrench	1...12 N•m (8.8...106 lb•in), 6...50 N•m (53...443 lb•in)

Installation Instructions

ATTENTION: National codes and standards (NEC, BSI, and so forth) and local codes outline provisions for safely installing electrical equipment. Installation must comply with specifications regarding wire types, conductor sizes, branch circuit protection, and disconnect devices. Failure to do so can result in personal injury and/or equipment damage.

Follow these steps to install the DC fuse holder and fuses.

1. Review the [Product Advisories on page 1](#).
2. Verify that the system is de-energized.
3. Install the lugs on the end of the power cables according to the manufacturer's instructions.
4. Install the fuse holder (see [Fuse Holder Kit Contents and Dimensions on page 2](#) for mounting torque specifications).
5. Install the power cable lugs on the fuse terminals (see [Fuse Holder Kit Contents and Dimensions on page 2](#) for torque specifications).
6. Insert the fuse in the fuse holder.

Additional Resources

These documents contain additional information concerning related products from Rockwell Automation.

Resource	Description
PowerFlex 750TS Products with TotalFORCE Control Installation Instructions, publication 750-IN119	Provides the basic steps to install PowerFlex 755TS drives.
PowerFlex 750TS Products with TotalFORCE Control Technical Data publication 750-TD104	Provides detailed information on: • Drive specifications • Option specifications • Fuse and circuit breaker ratings
Drives in Common Bus Configurations with PowerFlex 755T Bus Supplies Application Technique, publication DRIVES-AT005	Provides the necessary guidelines, considerations, and limitations for the proper application of Allen-Bradley® drives used in common bus configurations.
Wiring and Grounding Guidelines for Pulse Width Modulated (PWM) AC Drives, publication DRIVES-IN001	Provides basic information to properly wire and ground PWM AC drives.
Safety Guidelines for the Application, Installation, and Maintenance of Solid-state Control, publication SGI-11	Designed to harmonize with NEMA Standards Publication No. ICS 1.1-1987 and provides general guidelines for the application, installation, and maintenance of solid-state control in the form of individual devices or packaged assemblies incorporating solid-state components.
Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1	Provides general guidelines for installing a Rockwell Automation industrial system.
Product Certifications website, rok.auto/certifications	Provides declarations of conformity, certificates, and other certification details.

You can view or download publications at [rok.auto/literature](#).

Waste Electrical and Electronic Equipment (WEEE)



At the end of life, this equipment should be collected separately from any unsorted municipal waste.

Rockwell Automation maintains current product environmental compliance information on its website at [rok.auto/pec](#).

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Publication 750-IN121A-EN-P - March 2022

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