

# Installation Instructions

## FHZ Series 5-Stud ZCASE® Fuse Holder

Part Numbers: 0FHZ0001Z, 0FHZ0002Z & 0FHZ0005Z



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### Description

The 5-Stud ZCASE Fuse Holder is a configurable product designed to do primary high current power distribution. It uses a power input terminal usually paired with a ZCASE shunt for the input. With a common bussed power, configurable studs (choose M6, M8, or M10) and appropriate ZCASE fuses a wide variety of configurations is possible. The dust covers keep dust out of the backside of the fuse box and the cover protects the fuses from debris.

### Specifications Overview

<b>Amperage:</b>	400A Continuous
<b>Available Fuse Rating:</b>	40- 600A
<b>Accessories:</b>	Studs, Bus Bar, Tether, Dust Cover
<b>Box Dimensions:</b>	217mm x 96mm x 59mm
<b>Contact Temp:</b>	-40° to 105° C
<b>Connections:</b>	M6, M8, and M10 Bolt Down Connection
<b>Color:</b>	Black

### Web Resources

Download 2D print and technical resources at:  
[littelfuse.com/5studzcase](http://littelfuse.com/5studzcase)

### Ordering Information

PART NUMBERS	DESCRIPTION
0FHZ0001Z	5-Stud Assembly with Bolts and Bus Bar
0FHZ0002Z	5-Stud Full Assembly with M10 Input
0FHZ0003Z	5-Stud Box Only for Configuration
0FHZ0005Z	5-Stud Full Assembly with M8 Input

### Installation

Assemble the fuse holder in the following sequence:

1. Open AssureLatches and remove cover. If you are using the 0FHZ0002Z, remove the nuts and the green rubber dust covers.
2. Place the ZCASE fuses on the studs to match stud size and loads. If you are using the optional dust covers replace them in the slots all the way down allowing the tabs to engage the fuse bodies.
  - Remember when selecting fuse values the continuous current through a fuse should be calculated as 75% of the rated value of the fuse (200A fuse should carry 150A max continuous current).
  - The total long term continuous current for all fuses should not exceed 400A.
  - Intermittent loads such as motor start, starter or compressor should not exceed 600A for 20 seconds.
3. Place ZCASE fuse holder into the mounting position and mark the location on the mounting surface for the mounting bolts. Drill four holes to accommodate the M8 Mounting hardware. Bolt the holder to the mounting surface with four M8 bolts torqued to XXNm maximum
4. Place an appropriate sized output cable with an a terminal matched to the stud size on the top of the ZCASE fuses and put on an appropriate nuts on the isolated studs. Torque the nuts to 14Nm±2Nm for M8 studs and 16Nm±2Nm for M10 studs. Be sure to hold the wire and terminal while applying torque to prevent twisting which can damage the fuse element.
5. Be sure that the output cables are routed so they have sufficient bend radius and are not at risk of being damaged or pinched. Lastly, make sure that all cables are strain relieved by being supported within 18" of the battery.
6. Replace the cover and snap the AssureLatch latches into place Note: the cover is designed to take a label, so good practice is to label the fuse box so each fuse and its loads are identified, as this makes troubleshooting later much easier

Step by step images shown in Figure 2 on page 2.

### Figure 1 - Covered Assembly



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Figure 2 - Step by Step Installation

STEP 1	IMAGE	
	DETAILS	Open AssureLatches and remove cover. If you are using the 0FHZ0002Z, remove the nuts and the green rubber dust covers.
STEP 2	IMAGE	
	DETAILS	Place the ZCASE fuses on the studs to match stud size and loads. If you are using the optional dust covers replace them in the slots all the way down allowing the the tabs to engage the fuse bodies.
STEP 3	IMAGE	
	DETAILS	Place ZCASE fuse holder into the mounting position and mark the location on the mounting surface for the mounting bolts. Drill four holes to accomodate the M8 Mounting hardware. Bolt the holder to the mounting surface with four M8 bolts torqued to XXNm maximum.
STEP 4	IMAGE	
	DETAILS	Place an appropriate sized output cable with an a terminal matched to the stud size on the top of the ZCASE fuses and lput on an appropriate nuts on the isolated studs. Torque the nuts to 14Nm±2Nm for M8 studs and 16Nm±2Nm for M10 studs. Be sure to hold the wire and terminal while applying torque to prevent twisting which can damage the fuse element.
STEP 5	IMAGE	
	DETAILS	Be sure that the output cables are routed so they have sufficient bend radius and are not at risk of being damaged or pinched. Lastly, make sure that all cables are strain relieved by being supported within 18" of the battery.
STEP 6	IMAGE	
	DETAILS	Replace the cover and snap the AssureLatch latches into place. Apply a label to the cover to designate the fuses and their loads.

Specifications, descriptions and illustrative material in this literature are as accurate as known at the time of publication, but are subject to changes without notice. Visit [littelfuse.com](http://littelfuse.com) for the most up-to-date technical information.