

# ANTREX Electronics

Electronic Components Sourcing Information

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## Product Reference Information

**Part Number:** 03452RF8X  
**Manufacturer:** Littelfuse Inc.  
**Package:** Bulk  
**Availability:** Please confirm with sales

### Product Page:

<https://antrexco.com/product/details/littelfuse-inc/03452rf8x.html>

### Request a Quote:

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## Contact Information

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### Note:

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.

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# 345 Series

## Shock-Safe Panel Mount Enclosed Fuse Holders



### Product Characteristics

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Compatible Fuses</b>    | For 3AB, 3AG, 5×20mm, or 2AG Fuses                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>         | Designed to eliminate the possibility of electrical shock, as defined in IEC standards 60127-6. The universal fuseholder body will accept 3AB, 3AG, 5 × 20mm, and 2AG fuse sizes depending on knob selected. Permits inventory reduction of bodies and provides knob interchange versatility. Anti-tease feature eliminates circuit interruption when knob is accidentally depressed. Five fuseholder types assure design flexibility. Available with two knob styles — screwdriver slot or fingergrip. Available in two terminal styles — dual-purpose for soldering or 3/16" NEMA quick connect; and ¼" NEMA/DIN quick connect. Quick fuse size identification is provided with letters on fingergrip knob and color-coded screwdriver slot knobs. |
| <b>Electrical</b>          | Insulation Resistance: 10,000 megohm minimum at 500 VDC. Contact Resistance: Less than .005 ohm average at currents up to 1 ampere.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Mounting</b>            | Threaded styles withstand 15 in.-lb. mounting torque. Low profile and High profile panel thickness: .032" min./ .310" max. Quick mount panel thickness: .012" min./ .360" max. Rear mount panel thickness: .012" min./ .260" max.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Molded Parts</b>        | Body Material: Black glass-filled thermoplastic (UL 94V0).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Knob Material</b>       | Grey, blue or black glass-filled thermoplastic (UL94 V-0) Hex Nut Material: Black glass-filled thermoplastic.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Knob</b>                | Finger-Grip, Fuse Extractor type or Screwdriver Slot, Fuse Extractor type with plated copper alloy insert. Plated copper alloy contact clips. Spring loaded, locking mechanism provides an anti-tease feature and will not vibrate loose.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Terminals</b>           | Copper alloy. Tin-plated. Three styles available. A .187" dual purpose terminal accepts wire for soldering or a Quick-Connect receptacle. .187" terminal for NEMA Quick-Connect and .250" terminal for NEMA/DIN Quick-Connect available.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Ambient Temperature</b> | –40°C to +85°C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Hardware</b>            | Threaded style fuseholders are supplied with a thermoplastic hex nut unassembled. Quick mount style fuseholders are supplied with a push-on type retaining nut, black oxide finish, unassembled. A synthetic rubber "O" ring will be supplied only with the screwdriver slot knob when the drip-proof version is requested. To order with a metal internal tooth lockwasher (L) and/or neoprene panel washer (N) and/or drip-proof synthetic rubber "O" ring with Neoprene washer (NP) [Screwdriver slot knob only], add the appropriate suffix (L, N, or NP) respectively (or in combination) to the catalog number. Accessories can be order by separately.                                                                                        |
| <b>Ingress Protection</b>  | IP40 : Protected from solid objects greater than 1 millimeter.<br>Not protected from liquids.<br>IP52: Protected against dust and dripping water when tilted up to 15°. Parts ending with "NP".                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

### Additional Information



Resources



Accessories



Samples

### Agency Approval

| Agency | Agency File Number | 3AG/AB   | 5×20mm   | 2AG      |
|--------|--------------------|----------|----------|----------|
|        | E14721             | 20A 250V | 20A 250V | 10A 250V |
|        | 7316               | 20A 250V | 20A 250V | 10A 250V |
|        | 40001642           | 10A 250V | 10A 250V | —        |

\* Please refer to Fuseology section for information on proper fuseholder re-rating.

# 345 Series

## Shock-Safe Panel Mount Enclosed Fuse Holders

### Dimensions



### Ordering Part Numbering System to order complete fuse holder (body and knob)

**Example 03453LS7HXLNP** - A 345 Series fuse holder for 3AG fuses with low profile body and a Screwdriver Slot knob, with 1/4" (Rt. Angle) Nema/Din QC terminals.

| 0 345 3 LS 7 H X L N P    |                                            |                                             |                       |                                               |
|---------------------------|--------------------------------------------|---------------------------------------------|-----------------------|-----------------------------------------------|
| Series Name               |                                            |                                             |                       |                                               |
| Fuse Size                 | Style                                      | Terminals                                   | Packing               | Accessory*                                    |
| 2                         | LF                                         | 1                                           | H                     | L                                             |
| 2AG<br>.177" x .570"      | Low Profile Body<br>Black Fingergrasp Knob | 3/16" (Rt. Angle)<br>Dual Purpose Solder/QC | For 100 Pieces (Bulk) | Lockwasher                                    |
| 3                         | RF                                         | 2                                           |                       | N                                             |
| 3AG<br>.250" x 1.250"     | Rear Mount Body<br>Black Fingergrasp Knob  | 3/16" (Straight)<br>Dual Purpose Solder/QC  |                       | Neoprene Washer                               |
| 5                         | HS                                         | 3                                           |                       | P                                             |
| 5 x 20mm<br>.197" x .787" | High Profile Body<br>Screwdriver Slot Knob | 3/16" (Rt. Angle)<br>NEMA QC                |                       | Drip-Proof "O" Ring**<br>with Neoprene Washer |
|                           | LS                                         | 4                                           |                       |                                               |
|                           | Low Profile Body<br>Screwdriver Slot Knob  | 3/16" (Straight)<br>NEMA QC                 |                       |                                               |
|                           | QS                                         | 7                                           |                       |                                               |
|                           | Quick Mount Body<br>Screwdriver Slot Knob  | 1/4" (Rt. Angle)<br>NEMA/DIN QC             |                       |                                               |
|                           | 2AG - Blue Knob                            | 8                                           |                       |                                               |
|                           | 3AG - Grey Knob                            | 1/4" (Straight)<br>NEMA/DIN QC              |                       |                                               |
|                           | 5 x 20mm - Black Knob                      |                                             |                       |                                               |

\*Optional (L,N,P) can be ordered individually or in combination  
 \*\*Screwdriver slot knob only

Note - If accessory is needed, add the "X" as filler on the ordering part number

# 345 Series

## Shock-Safe Panel Mount Enclosed Fuse Holders

### To Order Body Including Nut(s) Only

| Terminal Style     | Bottom Terminal | Low Profile Body Part Number*** | High Profile Body Part Number | Rear Mount Body Part Number | Quick Mount Body Part Number |
|--------------------|-----------------|---------------------------------|-------------------------------|-----------------------------|------------------------------|
| 3/16" Dual Purpose | (Rt. Angle)     | 03453LF1ZX010                   | 03453HS1ZX010                 | 03453RF1ZX010               | 03453QS1ZX010                |
| 3/16" Dual Purpose | (Straight)      | 03453LF2ZX010                   | 03453HS2ZX010                 | 03453RF2ZX010               | 03453QS2ZX010                |
| 3/16" NEMA QC      | (Rt. Angle)     | 03453LF3ZX010                   | 03453HS3ZX010                 | 03453RF3ZX010               | 03453QS3ZX010                |
| 3/16" NEMA QC      | (Straight)      | 03453LF4ZX010                   | 03453HS4ZX010                 | 03453RF4ZX010               | 03453QS4ZX010                |
| ¼" NEMA/DIN QC     | (Rt. Angle)     | 03453LF7ZX010                   | 03453HS7ZX010                 | 03453RF7ZX010               | 03453QS7ZX010                |
| ¼" NEMA/DIN QC     | (Straight)      | 03453LF8ZX010                   | 03453HS8ZX010                 | 03453RF8ZX010               | 03453QS8ZX010                |

\*\*\*Low Profile Body will accept either Fingergrip or Screwdriver Slot Knob.  
 Z - 100 pieces (Bulk)  
 X - Filler

### To Order Knob Only

| Fuse Size | Fingergrip Knob | Screwdriver Slot Knob |
|-----------|-----------------|-----------------------|
| 2AG       | 03452LF1HX020   | 03452LS1HX020         |
| 3AG       | 03453LF1HX020   | 03453LS1HX020         |
| 5 × 20mm  | 03455LF1HX020   | 03455LS1HX020         |

H - 100 Pieces (Bulk)  
 X - Filler

### To Order Accesories Only

| Accessory         | Packaging         | Part Number |
|-------------------|-------------------|-------------|
| ACS Rubber Washer | Bulk (100 pieces) | 09010002H   |
| ACS Nut           | Bulk (100 pieces) | 09030097H   |
| ACS Lockwasher    | Bulk (100 pieces) | 09050023H   |
| ACS O-Ring        | Bulk (100 pieces) | 09010134H   |

H - 100 Pieces (Bulk)

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