

# INTERNATIONAL SHOCK SAFE PANEL MOUNT

## 345 Series (International Shock-Safe Panel Mount Type)



### Specifications

#### Description

Designed to eliminate electrical shock as defined by IEC standards 60065 and 60127, these panel-mount fuses offer a wide variety of options. This allows for inventory reduction and versatility.

#### Features/Benefits

- Anti-tease feature eliminates circuit interruption when knob is accidentally depressed
- Five fuseholder types for maximum flexibility
- Two knob styles—screwdriver slot and fingertip
- Drip proof option available on screwdriver slot knob style
- Two terminal choices depending on application



**Insulation Resistance:** 10,000 megaohm minimum at 500 VDC  
**Contact Resistance:** Less than .005 ohm average at currents up to 1 A  
**Mounting:** Threaded styles withstand 15 in-lb mounting torque  
 Profile panel thickness: .032" min/.310" max.  
 Quick mount panel thickness: .012" min/.360" max.  
 Rear mount panel thickness: .012" min/.260" max.  
**Body Material:** Black glass-filled thermoplastic (UL94 V-0)  
**Knob Material:** Grey, blue or black glass-filled thermoplastic (UL94 V-0)  
**Hex Nut Material:** Black glass-filled thermoplastic  
**Knob:** 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  
**Terminals:** Copper alloy, Tin-plated  
**Ambient Temperature:** -40°C to +85°C  
**Hardware:** 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

#### Web Resources

Downloadable CAD drawings and other technical information:  
[www.littelfuse.com/shocksafe](http://www.littelfuse.com/shocksafe)

#### Recommended Fuses

2AG .....	pg. 42
3AG .....	pg. 42
5 x 20 mm .....	pg. 43

AGENCY APPROVAL	FILE NUMBER	3AG	5 X 20 mm	2AG
UL	E75961	20 A 250 V	10 A 250 V	10 A 250 V
CSA	LR91788	20 A 250 V	10 A 250 V	10 A 250 V
VDE	116895E	10 A 250 V	10 A 250 V	—

*Note: 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.*

Please refer to Technical Application Guide section for information on proper fuseholder de-rating.

#### Ordering Information

##### EXAMPLE:

(Complete Assembly with Options)

Series Number **345 3 LS 7 LNP**

FUSE SIZE	STYLE	TERMINALS	OPTIONS*
2	LF	1	L
2AG .177" x .570"	Low Profile Body Black Fingertip Knob	3/16" (Right Angle) Dual Purpose Solder/QC	Lockwasher
3	RF	2	N
3AG .250" x 1.250"	Rear Mount Body Black Fingertip Knob	3/16" (Straight) Dual Purpose Solder/QC	Neoprene Washer
5	HF	3	NP
5 x 20 mm .197" X .787"	High Profile Body Screwdriver Slot Knob	3/16" (Right Angle) NEMA QC	Drip-Proof O-Ring <sup>†</sup> with Neoprene Washer
	LS	4	
	Low Profile Body Screwdriver Slot Knob	3/16" (Straight) NEMA QC	
	QS	7	
	Quick Mount Body Screwdriver Slot Knob	1/4" (Right Angle) NEMA/DIN QC	
	Screwdriver Slot Knob 2AG—Blue Knob 3AG—Grey Knob 5 x 20 mm—Black Knob	8	
		1/4" (Straight) NEMA/DIN QC	

\*Options (L, N, NP) can be ordered individually or in combination.  
<sup>†</sup>Screwdriver slot knob only.