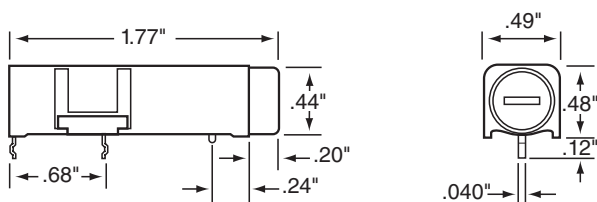


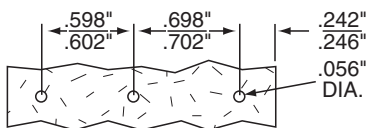
RoHS **Pb** **Shock-Safe Holder** (Circuit Board Mounted)



Dimensions



Recommended hole Pattern



Product Characteristics

Compatible Fuse Types	3AG 5 x 20mm 2AG
Description	Similar to our Shock-Safe panel mount fuseholders, this series is designed per IEC Standards 60127 and 60065. Two different knob styles available are available for use with 3AG (¼" x 1¼") or 5 x 20mm fuses.
Electrical	Rating: See APPROVALS. Insulation Resistance: 10,000 megohm minimum at 500 VDC. Contact Resistance: Less than .005 ohm average at a current of one ampere.
Dielectric Strength	4000 volts minimum. Mounting: Intended for soldering to printed circuit boards.
Molded Parts	Body Material: Black glass-filled thermoplastic (UL 94V0).
Knob	Screwdriver slot, fuse extractor type with nickel-plated, copper alloy insert. Spring-loaded, bayonet style. Knob Material: Grey or Black glass-filled thermoplastic (UL94 V-0)
Terminals	Brass. Tin-plated.
Ambient Temperature	-40°C to +85°C.

Agency Approvals

Agency	Agency File Number
	E14721
	007316
	133923

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

Ordering Information

Catalog Number	Fuse Size
345 101	¼" x 1¼" Fuses
345 121	5 x 20mm Fuses

Body only: 345 101-010
Knob only: 345 101-020 (¼" x 1¼") Grey;
345 121-020 (5 x 20mm) Black.

FUSEHOLDERS

SHOCK-SAFE TYPE

For 3AG or 5x20mm Fuses

A complete family of fuseholders designed to international specifications. Shock-safe design eliminates any possibility of electrical shock, per IEC Standards 257 and 65. Knobs are available for use with 3AG (1/4" x 1-1/4") fuses or 5 x 20mm fuses.

APPROVALS: Recognized under the Components Program of Underwriters Laboratories and Certified by CSA (20A, 300V).

SEMKO approved (6.3A, 250V).

VDE approved (10A, 250V).

SPECIFICATIONS:

Electrical: Rating: See APPROVALS.

Insulation Resistance: 10,000 megohm minimum at 500 VDC.

Contact Resistance: Less than .005 ohms average at currents up to 1 ampere.

Dielectric Strength: 4000 volts minimum.

Mounting: Threaded styles withstand 15 lb.-in. mounting torque.

Maximum panel thickness is 0.31".

Molded Parts: Body Material: Black glass-filled thermoplastic.

Knob Material: Grey or black glass-filled thermoplastic.

Hex Nut Material: Glass-filled thermoplastic.

Knob: Finger-grip fuse extractor type or screwdriver slot fuse extractor type with nickel-plated copper alloy insert. Spring loaded, bayonet style.

Terminals: Brass. Tin-plated. Accept solder or .187" female connector.

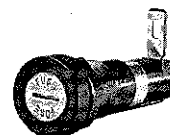
Ambient Temperature: -40°C to +85°C.

Vibration: 10—500 Hz .03" constant amplitude or 10 G's constant acceleration.

Hardware: Plastic hex nut, unassembled (threaded styles). Steel retainer, black oxide finish; unassembled (fast-mount styles).

PATENTS: Pending.

FRONT PANEL, LOW PROFILE



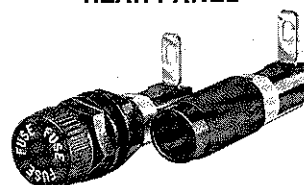
FRONT PANEL, HIGH PROFILE



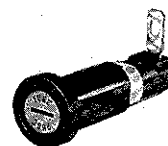
FRONT PANEL



REAR PANEL



LOW PROFILE, FAST MOUNT



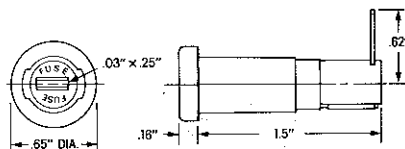
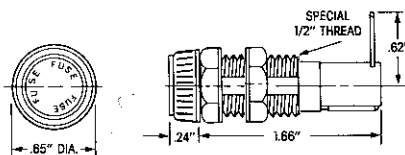
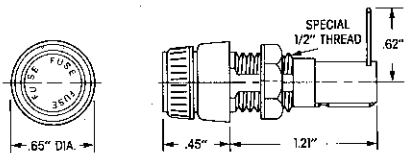
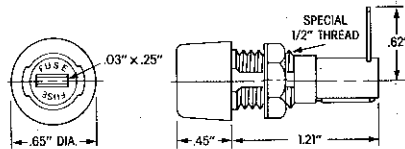
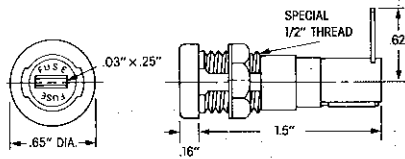
SHOCK-SAFE FUSEHOLDER SELECTOR GUIDE

CATALOG NUMBER		KNOB TYPE	LOW PROFILE	HIGH PROFILE	FRONT MOUNT	REAR MOUNT	P.C. BOARD MOUNT	RT. ANGLE TERMINAL	STRAIGHT TERMINAL
1/4" x 1-1/4" (3AG)	5 x 20mm								
345 601	345 621	Screwdriver Slot	X		X			X	
345 602	345 622	Screwdriver Slot		X	X			X	
345 603	345 623	Finger Grip		X	X			X	
345 611	345 631	Screwdriver Slot	X		X				X
345 612	345 632	Screwdriver Slot		X	X				X
345 613	345 633	Finger Grip		X	X				X
345 701*	345 721*	Screwdriver Slot	X		X†			X	
345 711*	345 731*	Screwdriver Slot	X		X†				X
345 903*	345 923*	Finger Grip		X		X		X	
345 913*	345 933*	Finger Grip		X		X			X
345 101*	345 121*	Screwdriver Slot	X				X•		

*SEMKO and VDE approvals pending. †Mounted with retainer ring. •See page 26 for P.C. Board Style.
To order bodies and knobs separately, see next page.

FUSEHOLDERS SHOCK-SAFE TYPE

For 3AG or 5x20mm Fuses



CATALOG NUMBER		RT. ANGLE BOTTOM TERM.	STRAIGHT BOTTOM TERM.
1/4" x 1-1/4" FUSES	5 x 20mm FUSES		
345 601	345 621	X	
345 611	345 631		X

Body and Nut only: **345 601-010** (Rt. Angle); **345 611-010** (Straight).
Knob only: **345 601-020** (1/4" x 1-1/4"); **345 621-020** (5 x 20mm).

CATALOG NUMBER		RT. ANGLE BOTTOM TERM.	STRAIGHT BOTTOM TERM.
1/4" x 1-1/4" FUSES	5 x 20mm FUSES		
345 602	345 622	X	
345 612	345 632		X

Body and Nut only: **345 602-010** (Rt. Angle); **345 612-010** (Straight).
Knob only: **345 602-020** (1/4" x 1-1/4"); **345 622-020** (5 x 20mm).

CATALOG NUMBER		RT. ANGLE BOTTOM TERM.	STRAIGHT BOTTOM TERM.
1/4" x 1-1/4" FUSES	5 x 20mm FUSES		
345 603	345 623	X	
345 613	345 633		X

Body and Nut only: **345 603-010** (Rt. Angle); **345 613-010** (Straight).
Knob only: **345 603-020** (1/4" x 1-1/4"); **345 623-020** (5 x 20mm).

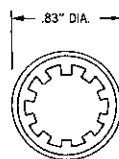
CATALOG NUMBER		RT. ANGLE BOTTOM TERM.	STRAIGHT BOTTOM TERM.
1/4" x 1-1/4" FUSES	5 x 20mm FUSES		
345 903	345 923	X	
345 913	345 933		X

Body and Nuts (2) only: **345 903-010** (Rt. Angle); **345 913-010** (Straight).
Knob only: **345 903-020** (1/4" x 1-1/4"); **345 923-020** (5 x 20mm).

CATALOG NUMBER		RT. ANGLE BOTTOM TERM.	STRAIGHT BOTTOM TERM.
1/4" x 1-1/4" FUSES	5 x 20mm FUSES		
345 701	345 721	X	
345 711	345 731		X

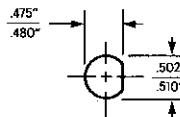
Body and Retaining Ring only: **345 701-010** (Rt. Angle); **345 711-010** (Straight).
Knob only: **345 701-020** (1/4" x 1-1/4"); **345 721-020** (5 x 20mm).

"Push-On" Type Retaining Ring

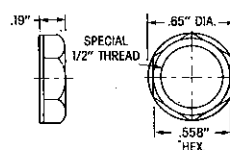


NOTE: Knobs are color-coded. On screwdriver slot type, knobs are grey for 1/4" x 1-1/4" fuses, black for 5 x 20mm fuses. On finger grip type, the lettering on knobs for 1/4" x 1-1/4" fuses are filled with grey paint.

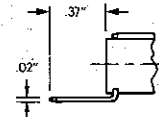
Suggested Mounting Hole



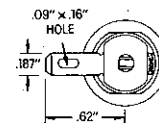
Plastic Hex Nut with Flange



Straight Bottom Terminal



Right Angle Bottom Terminal



RoHS **345 Series** (International Shock-Safe Panel Mount Type)



Product Characteristics

Compatible Fuses	For 3AG, 5 x 20mm, or 2AG Fuses
Description	Designed to eliminate the possibility of electrical shock, as defined in IEC standards 60065 and 60127. The universal fuseholder body will accept 3AG, 5 x 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.
Electrical	Insulation Resistance: 10,000 megohm minimum at 500 VDC. Contact Resistance: Less than .005 ohm average at currents up to 1 ampere.
Mounting	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.
Molded Parts	Body Material: Black glass-filled thermoplastic (UL 94V0).
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. 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.
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. 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.

Agency Approval

Agency	Agency File Number	3AG	5 x 20mm	2AG
	E75961	20A 250V	10A 250V	10A 250V
	LR91788	20A 250V	10A 250V	10A 250V
	116895E	10A 250V	10A 250V	—

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

Ordering Information (contained on next page)

Part Numbering System

EXAMPLE:

(Complete Assembly with Options)

Series Number 345 3 LS 7 L N NP			
Fuse Size	Style	Terminals	Options*
2 2AG .177" x .570"	LF Low Profile Body Black Fingergrasp Knob	1 3/16" (Rt. Angle) Dual Purpose Solder/QC	L Lockwasher
3 3AG .250" x 1.250"	RF Rear Mount Body Black Fingergrasp Knob	2 3/16" (Straight) Dual Purpose Solder/QC	N Neoprene Washer
5 5 x 20mm .197" x .787"	HS High Profile Body Screwdriver Slot Knob	3 3/16" (Rt. Angle) NEMA QC	NP Drip-Proof "O" Ring** with Neoprene Washer
	LS Low Profile Body Screwdriver Slot Knob	4 3/16" (Straight) NEMA QC	
	QS Quick Mount Body Screwdriver Slot Knob	7 1/4" (Rt. Angle) NEMA/DIN QC	
	Screwdriver Slot Knob 2AG — Blue Knob 3AG — Grey Knob 5 x 20mm — Black Knob	8 1/4" (Straight) NEMA/DIN QC	

*Options (L, N, NP) can be ordered individually or in combination.
**Screwdriver slot knob only.

To Order Knob Only:

Fuse Size	Fingergrasp Knob Part Number	Screwdriver Slot Knob Part Number
2AG	3452LF1-020	3452LS1-020
3AG	3453LF1-020	3453LS1-020
5 x 20mm	3455LF1-020	3455LS1-020

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)	3453LF1-010	3453HS1-010	3453RF1-010	3453QS1-010
3/16" Dual Purpose	(Straight)	3453LF2-010	3453HS2-010	3453RF2-010	3453QS2-010
3/16" NEMA QC	(Rt. Angle)	3453LF3-010	3453HS3-010	3453RF3-010	3453QS3-010
3/16" NEMA QC	(Straight)	3453LF4-010	3453HS4-010	3453RF4-010	3453QS4-010
1/4" NEMA/DIN QC	(Rt. Angle)	3453LF7-010	3453HS7-010	3453RF7-010	3453QS7-010
1/4" NEMA/DIN QC	(Straight)	3453LF8-010	3453HS8-010	3453RF8-010	3453QS8-010

***Low Profile Body will accept either Fingergrasp or Screwdriver Slot Knob.

Dimensions

