RoHS 🗭 Shock-Safe Holder (Circuit Board Mounted)

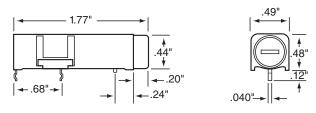




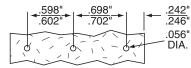
.ittelfuse°

Expertise Applied Answers Delivered

Dimensions



Recommended hole Pattern



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 $(\frac{1}{2} \times 1\frac{1}{2})$ or 5 × 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 Approva	als			
Agency	Agency File Number			
9 1	E14721			
(SP	007316			

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

Ordering Information				
Catalog Number	Fuse Size			
345 101	¼" × 1¼" Fuses			
345 121	5 × 20mm Fuses			

Body only: 345 101-010

Knob only: 345 101-020 (¼" × 1¼") Grey; 345 121-020 (5 × 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 ($1/4" \times 1-1/4"$) fuses or $5 \times 20mm$ 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.

1. - • • • • • •

SHOCK-SAFE FUSEHOLDER SELECTOR GUIDE

CATALOG NUMBER			- · · ·				P.C. BOARD Mount	RT. ANGLE TERMINAL	STRAIGHT TERMINAL
1/4"×1-1/4" (3AG) 5×20mm	KNOB TYPE	LOW PROFILE	FRONT Mount		REAR MOUNT				
345 601	345 621	Screwdriver Slot	X	-	X		Y	X	
345 602	345 622	Screwdriver Slot		Х	Х			Χ	
345 603	345 623	Finger Grip		X	X			Х	
345 611	345 631	Screwdriver Slot	Х		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†			Х	
345 711*	345 731*	Screwdriver Slot	Х		Xt				X
345 903*	345 923*	Finger Grip		Х		Х	-	Х	· -
345 913*	345 933*	Finger Grip		Х		Х			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.

FRONT PANEL, LOW PROFILE



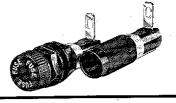
FRONT PANEL, HIGH PROFILE



FRONT PANEL



REAR PANEL



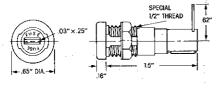
LOW PROFILE, FAST MOUNT

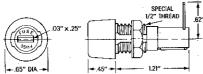


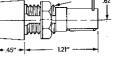
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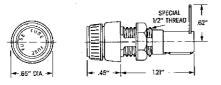
FUSEHOLDERS SHOCK-SAFE TYPE

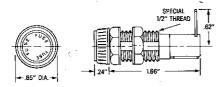
For 3AG or 5x20mm Fuses

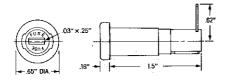












"Push-On" Type Retaining Ring

CATALOG NUMBER		RT. ANGLE	STRAIGHT	
1/4"×1-1/4" FUSES	5×20mm FUSES	BOTTOM TERM.	BOTTOM TERM.	
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" × 1-1/4"); **345** 621-020 (5 × 20mm).

CATALOG NUMBER		RT. ANGLE	STRAIGHT	
1/4"×1-1/4" FUSES	5×20mm FUSES	BOTTOM TERM.	BOTTOM TERM.	
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: 345 601-020 (1/4" × 1-1/4"); 345 621-020 (5 × 20mm).

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

Knob only: 345 603-020 (1/4" × 1-1/4"); 345 623-020 (5 × 20mm).

CATALOG NUMBER		RT. ANGLE	STRAIGHT	
1/4"×1-1/4" FUSES	5×20mm FUSES	BOTTOM TERM.	BOTTOM TERM.	
345 1903	345 923	X	·····	
345 913	345 933		X	

Body and Nuts (2) only: 345 903-010 (Rt. Angle); 345 913-010 (Straight). Knob only: 345 603-020 (1/4" × 1-1/4"); 345 623-020 (5 × 20mm).

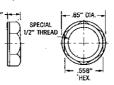
CATALOG NUMBER		RT. ANGLE	STRAIGHT	
1/4"×1-1/4" FUSES	5×20mm FUSES	BOTTOM TERM.	BOTTOM TERM.	
345 701	345 721	X		
345 711	345 731		X	

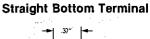
Body and Retaining Ring only: **345** 701-010 (Rt. Angle); **345** 711-010 (Straight). Knob only: **345** 601-020 (1/4" × 1-1/4"); **345** 621-020 (5 × 20mm).

Suggested Mounting Hole



Plastic Hex Nut with Flange







Right Angle Bottom Terminal



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

Product Characteristics



ROHS 145 Series (International Shock-Safe Panel Mount Type)







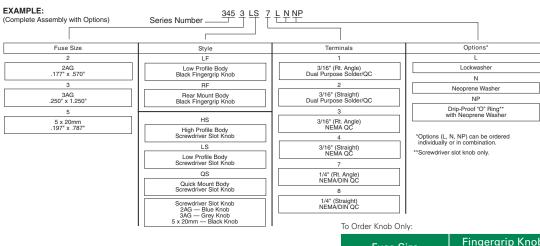
Compatible Fuses	For 3AG, 5 x 20)mm, or 2AG Fu	ses		
Description	Designed to eliminate the possibility of electrical shock, as defined in IEC standards 60065 and 60127. The universal fuseholder body will accept 3AG, 5 × 20mm, and 2AG fuse sizes depending on knob selected. Permits inventory reduction 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 inlb. 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: I	Black glass-filled t	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 receptacle187" 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 Appro	val				
Agency	Agency File Number	3AG	5 x 20mm	2AG	
91	E75961	20A 250V	10A 250V	10A 250V	
SP.	LR91788	20A 250V	10A 250V	10A 250V	
DE	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



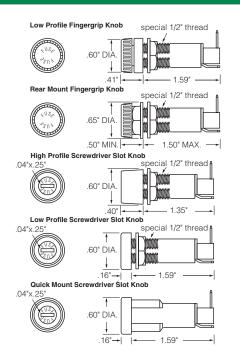
Fuse Size	Part Number	Knob Part Number
2AG	3452LF1-020	3452LS1-020
3AG	3453LF1-020	3453LS1-020
5 × 20mm	3455LF1-020	3455LS1-020

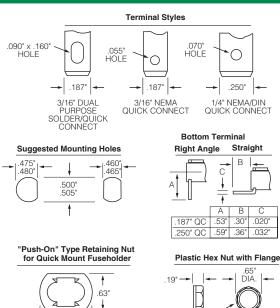
To Order Body Including Nut(s) Only:

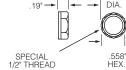
to oraci body molading rat(o)	- /				
Terminal Style	BottomTerminal	Low Profile Body Part Number***	High Profile Body Part Number	Rear Mount Body Part Number	Quick Mount Body Part Number
3/16" Dual Purpose	(Rt. Angle)	3453LF1-010	3453HS1-010	3453RF1-010	3453QS1-010
3/16" Dual Purpose	(Straight)	3453LF2-010	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
¼" NEMA/DIN QC	(Rt. Angle)	3453LF7-010	3453HS7-010	3453RF7-010	3453QS7-010
¼"NEMA/DIN QC	(Straight)	3453LF8-010	3453HS8-010	3453RF8-010	3453QS8-010

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

Dimensions







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Specifications are subject to change without notice. Please refer to www.littelfuse.com for current information. .91" DIA.