



HIGH-SPEED SEMICONDUCTOR PRODUCTS CATALOG

POWR-SPEED® PRODUCTS

HIGH-SPEED FUSES

FUSE BLOCKS & HOLDERS

MICROSWITCHES

SPECIAL PURPOSE FUSES

NEW PSR Series High-Speed Fuses

Now available in bladed models



**New DIN and bolted blade style terminations
meet a broader range of applications**

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POWR-SPEED FUSES

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SPECIAL PURPOSE FUSES



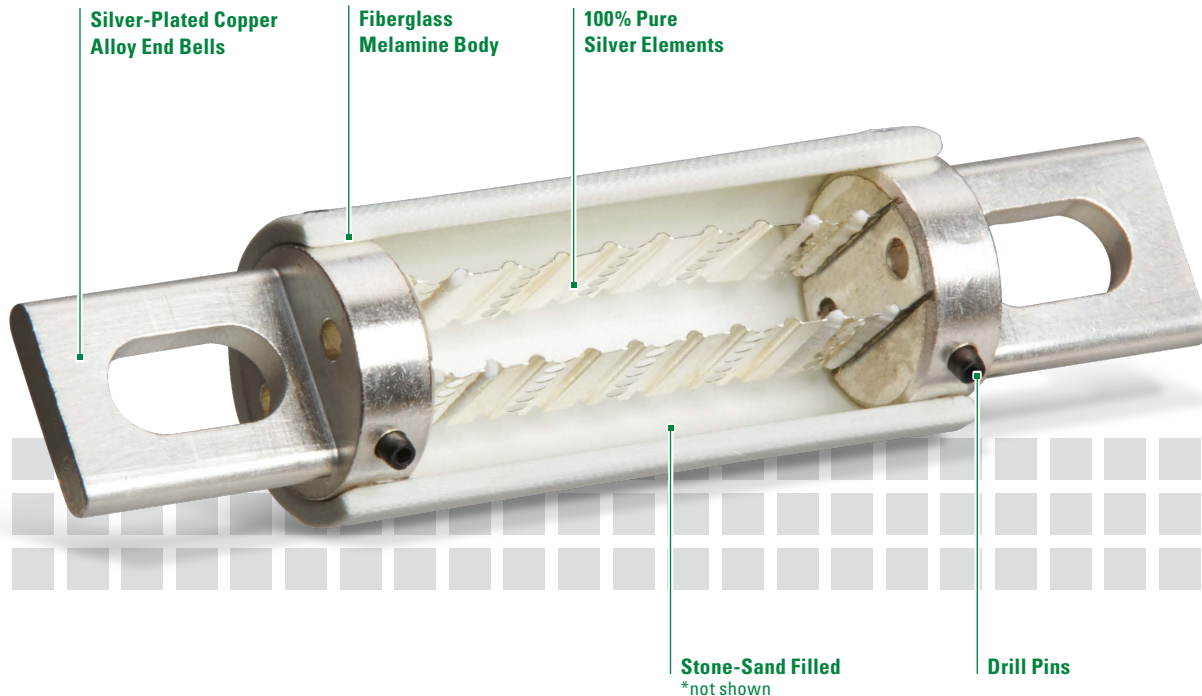
Telecommunications

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High-Speed



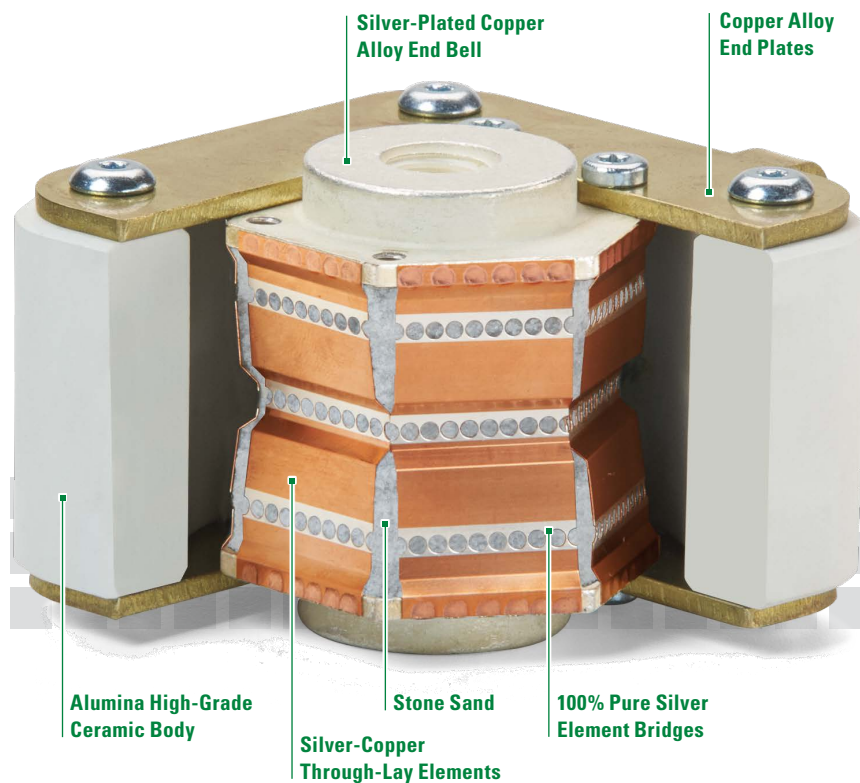
OPTIMIZED FOR PERFORMANCE AND EFFICIENCY

POWR-SPEED high-speed fuses are optimized for performance and efficiency to better protect your critical power semiconductors against short circuits. These certified fuses are reliable and fast-acting to help extend the life of your equipment.

The POWR-SPEED high-speed fuses are easy to retrofit as drop-in replacements where similar products are currently used. Plus, custom designs are available if you need a specific fuse for your application.

Contact us. Our engineers are eager to partner with you before, during, and long after the design process to meet your specific needs.

Semiconductor Fuses



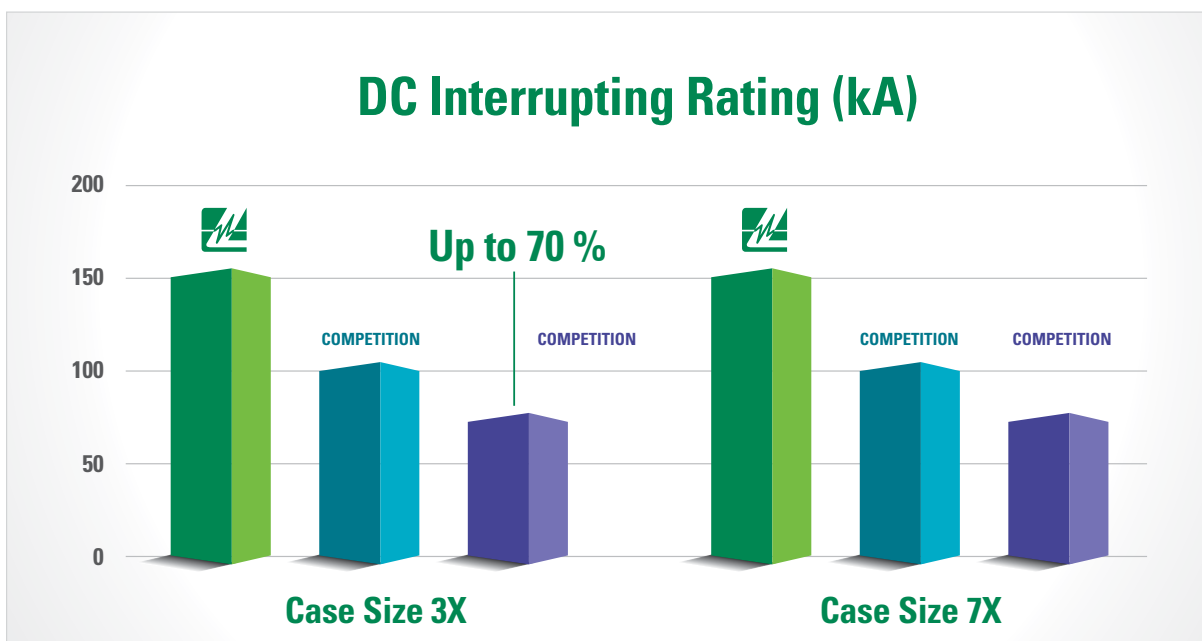
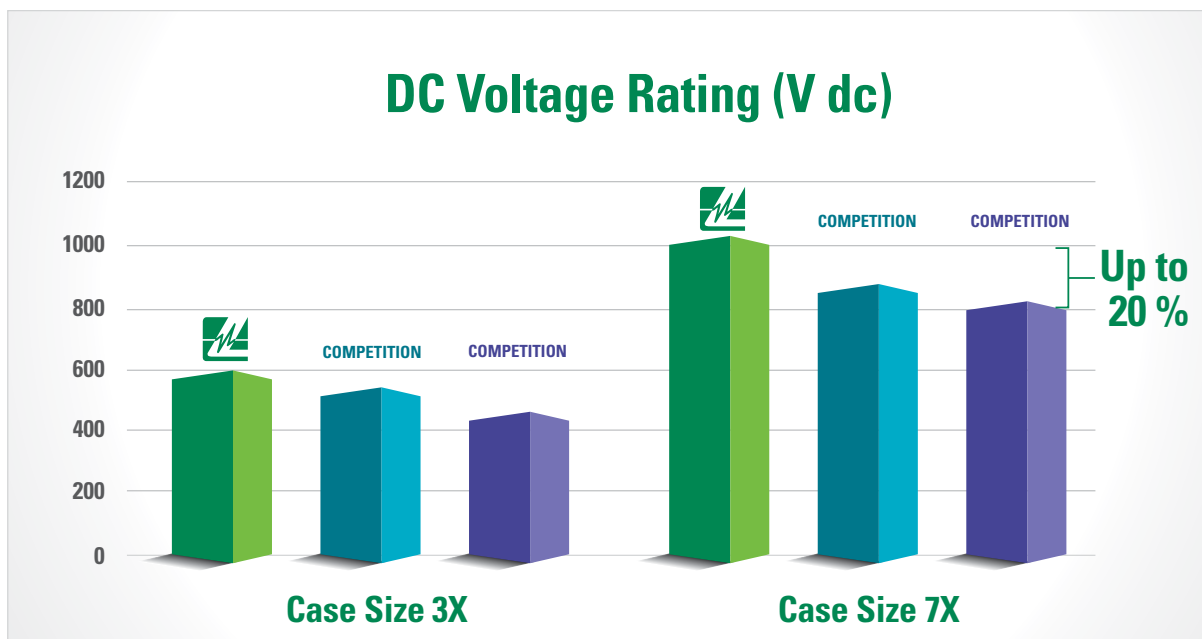
Features	Benefits
Extremely Current Limiting	Reduces peak let-through current and let-through energy (I^2t) to protect semiconductor components and devices
Low Watt Loss	Saves energy wasted during operation
Resilient Labeling*	Laser etched resistance values eliminate labels that erode over time
All Ratings Published on Label**	Eliminates confusion when replacing and inspecting
Universal Blade Mounting	Quick and easy field replacement
Flush End Terminals**	Flexibility to mount directly to bus-bar
RoHS and REACH Compliant	Environment friendly, offering greater acceptance in global power electronics
Silicone Sealant**	Prevents sand leakage and improves reliability
High Dc Interrupting Rating**	Achieves an interrupting rating of 150 kA for applications that require more power

*Round-body style only

**Square-body style only

PSR Series High-Speed Square-Body Fuses

BEST IN CLASS DC PERFORMANCE



Get superior performance rating in a smaller design to protect against damaging faults.

UP TO 33 % SMALLER FOOTPRINT



Achieve the same dc voltage in a smaller footprint, saving space in your design.

Download Guide on High-Speed Fuse Protection

An important part of developing quality overcurrent protection is understanding the system's needs as well as overcurrent protective device fundamentals. For an in-depth look at high-speed fuse protection visit [Littelfuse.com/Powr-Speed-Application-Guide](https://www.littelfuse.com/Powr-Speed-Application-Guide) and download the guide.



POWR-SPEED® Fuses

PSR SERIES HIGH-SPEED SQUARE BODY

Semiconductor Fuses • Flush End • 40 A–2000 A



Description

Littelfuse PSR series high-speed square body fuses are specially designed for protection of power semiconductor devices such as diodes, triacs, IGBTs, SCRs, MOSFETs, and other solid state devices that are typically designed into power conversion and power conditioning equipment. Variable frequency drives, inverters, UPS, rectifiers, and soft-starters are examples of typical equipment designed with sensitive power semiconductor devices that cannot withstand any line surge or overcurrent conditions and require high-speed protection.

Littelfuse POWR-SPEED PSR series products offer optimized circuit protection at the extremely fast speed required to protect modern day power conversion devices. Such products are commonly found in numerous applications including pulp and paper industries, cranes and heavy-lifting equipment, processing industries, wastewater treatment plants, and various large factories and MRO facilities.

Features/Benefits

- Best in class dc performance
- Extremely current limiting
- Superior cycling capability
- Global certification cURus, CCC, IEC
- Direct bus-bar mount design
- Visual and optional microswitch fuse blown indication
- Low watt-loss design
- Compliance with US and Canadian requirements
- Class aR performance according to IEC60269-4

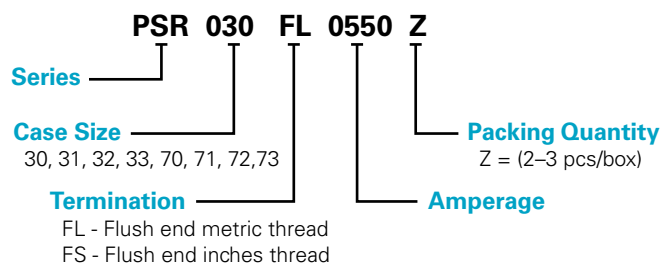
Applications

- Power conversion devices (UPS, inverter, rectifiers, drives)
- Dc systems (dc common bus, dc injection braking)
- Battery protection application (energy storage systems)
- Electric vehicle charging stations
- Heaters and power supplies

Specifications

Voltage Range	Ac: 550 V–1300 V Dc: 500 V–1000 V
Amperage Range	40 A–2000 A
Interrupting Range	Ac: 100 kA–200 kA Dc: 150 kA
Time Constant	10 ms
Microswitch	Yes
Mounting	Flush-end style
Material	Body: ceramic Contacts: plated brass
Approvals	UL 248-13 Recognized (File: E71611) cURus (File: E71611) IEC 60269-4 (class aR) CCC
Environmental	RoHS Compliant, REACH
Operating Temperature	-55 °C to +125 °C
Storage Temperature	Up to +35 °C with relative humidity <65 %
Country of Origin	Mexico

Ordering Part Number



Catalog Number

SERIES	CASE SIZE	TERMINATION	AMPERAGE	CATALOG NUMBER	ORDERING PART NUMBER
PSR	030	FL	0550	PSR030FL0550	PSR030FL0550Z

Recommended Accessories

Microswitch: MS3H1000C (case size 30 to 33)
MS7H1500C (case size 70 to 73)

Web Resources

Download technical documents: Littelfuse.com/psr

Note: high-speed fuses are designed for fixed installations. They are not intended for use in moving vehicle applications.

POWR-SPEED® Fuses

PSR SERIES HIGH-SPEED SQUARE BODY

Electrical Characteristics

CASE SIZE	CATALOG NUMBER		AMPERAGE RATING (A)	VOLTAGE RATING (V)			INTERRUPTING RATING		MELTING (PRE-ARC) I²T (A²s)	TOTAL CLEARING I²T (A²s) AT RATED VOLTAGE		WATT LOSS AT 100 % RATED CURRENT (W)	AGENCY CERTIFICATION	
	FLUSH END METRIC THREAD	FLUSH END INCHES THREAD		AC		DC	AC	DC		AC	DC		cURus	CCC
				IEC	UL									
30	PSR030FL0040	PSR030FS0040	40	690	700	600	200 kA	150 kA	76	280	260	12	•	•
	PSR030FL0050	PSR030FS0050	50	690	700	600	200 kA	150 kA	110	598	384	15	•	•
	PSR030FL0063	PSR030FS0063	63	690	700	600	200 kA	150 kA	176	1023	640	20	•	•
	PSR030FL0080	PSR030FS0080	80	690	700	600	200 kA	150 kA	304	1728	1252	24	•	•
	PSR030FL0100	PSR030FS0100	100	690	700	600	200 kA	150 kA	437	2835	1575	27	•	•
	PSR030FL0125	PSR030FS0125	125	690	700	600	200 kA	150 kA	707	4684	2783	36	•	•
	PSR030FL0160	PSR030FS0160	160	690	700	600	200 kA	150 kA	1359	9114	5507	39	•	•
	PSR030FL0200	PSR030FS0200	200	690	700	600	200 kA	150 kA	3012	15169	14700	39	•	•
	PSR030FL0250	PSR030FS0250	250	690	700	600	200 kA	150 kA	4668	29952	20833	50	•	•
	PSR030FL0315	PSR030FS0315	315	690	700	600	200 kA	150 kA	7131	61830	31600	61	•	•
	PSR030FL0350	PSR030FS0350	350	690	700	600	200 kA	150 kA	12007	85320	49273	62	•	•
	PSR030FL0400	PSR030FS0400	400	690	700	600	200 kA	150 kA	16209	114750	63367	75	•	•
	PSR030FL0450	PSR030FS0450	450	690	700	600	200 kA	150 kA	23133	160110	93533	75	•	•
	PSR030FL0500	PSR030FS0500	500	690	700	600	200 kA	150 kA	31429	225180	137333	80	•	•
PSR030FL0550	PSR030FS0550	550	690	700	600	200 kA	150 kA	44323	268920	145400	78	•	•	
31	PSR031FL0200	PSR031FS0200	200	690	700	600	200 kA	150 kA	1965	17334	16188	49	•	•
	PSR031FL0250	PSR031FS0250	250	690	700	600	200 kA	150 kA	3789	35343	21080	52	•	•
	PSR031FL0315	PSR031FS0315	315	690	700	600	200 kA	150 kA	6862	59130	30694	61	•	•
	PSR031FL0350	PSR031FS0350	350	690	700	600	200 kA	150 kA	9523	76140	40996	63	•	•
	PSR031FL0400	PSR031FS0400	400	690	700	600	200 kA	150 kA	14770	124335	64359	63	•	•
	PSR031FL0450	PSR031FS0450	450	690	700	600	200 kA	150 kA	22457	178200	97444	68	•	•
	PSR031FL0500	PSR031FS0500	500	690	700	600	200 kA	150 kA	29751	251505	125935	74	•	•
	PSR031FL0550	PSR031FS0550	550	690	700	600	200 kA	150 kA	42056	289170	171845	79	•	•
	PSR031FL0630	PSR031FS0630	630	690	700	600	200 kA	150 kA	73513	507465	276315	86	•	•
	PSR031FL0700	PSR031FS0700	700	690	700	600	200 kA	150 kA	98187	601425	337260	89	•	•
PSR031FL0800	PSR031FS0800	800	690	700	600	200 kA	150 kA	137208	848880	502800	107	•	•	
32	PSR032FL0400	PSR032FS0400	400	690	700	600	200 kA	150 kA	11104	79650	44533	82	•	•
	PSR032FL0450	PSR032FS0450	450	690	700	600	200 kA	150 kA	15535	116100	65463	88	•	•
	PSR032FL0500	PSR032FS0500	500	690	700	600	200 kA	150 kA	21573	161460	88277	94	•	•
	PSR032FL0550	PSR032FS0550	550	690	700	600	200 kA	150 kA	26327	177660	107960	104	•	•
	PSR032FL0630	PSR032FS0630	630	690	700	600	200 kA	150 kA	34790	234900	156963	110	•	•
	PSR032FL0700	PSR032FS0700	700	690	700	600	200 kA	150 kA	51191	291870	209287	117	•	•
	PSR032FL0800	PSR032FS0800	800	690	700	600	200 kA	150 kA	60125	472770	249000	145	•	•
	PSR032FL0900	PSR032FS0900	900	690	700	600	200 kA	150 kA	107785	764100	404000	145	•	•
	PSR032FL1000	PSR032FS1000	1000	690	700	600	200 kA	150 kA	190102	933120	672333	146	•	•
	PSR032FL1100	PSR032FS1100	1100	690	700	600	200 kA	150 kA	225379	1247400	744000	149	•	•
33	PSR033FL0450	PSR033FS0450	450	690	700	600	200 kA	150 kA	13600	106380	58947	99	•	•
	PSR033FL0500	PSR033FS0500	500	690	700	600	200 kA	150 kA	16434	140400	77846	107	•	•
	PSR033FL0550	PSR033FS0550	550	690	700	600	200 kA	150 kA	23314	187650	100461	108	•	•
	PSR033FL0630	PSR033FS0630	630	690	700	600	200 kA	150 kA	38727	285930	142437	113	•	•
	PSR033FL0700	PSR033FS0700	700	690	700	600	200 kA	150 kA	56763	392580	209863	113	•	•
	PSR033FL0800	PSR033FS0800	800	690	700	600	200 kA	150 kA	84691	575505	348500	120	•	•
	PSR033FL0900	PSR033FS0900	900	690	700	600	200 kA	150 kA	122619	740340	451177	122	•	•
	PSR033FL1000	PSR033FS1000	1000	690	700	600	200 kA	150 kA	222350	1170450	787750	124	•	•
	PSR033FL1100	PSR033FS1100	1100	690	700	600	200 kA	150 kA	310824	1568700	821400	127	•	•
	PSR033FL1250	PSR033FS1250	1250	690	700	600	200 kA	150 kA	476902	2403000	1674333	131	•	•
	PSR033FL1400	PSR033FS1400	1400	690	700	500	200 kA	150 kA	583552	2920050	1979750	144	•	•
	PSR033FL1500	PSR033FS1500	1500	600	650	500	200 kA	150 kA	674538	2433200	1996733	163	•	•
	PSR033FL1600	PSR033FS1600	1600	600	650	500	200 kA	150 kA	779948	2942800	2301633	182	•	•
	PSR033FL1800	PSR033FS1800	1800	600	650	500	200 kA	150 kA	952196	3785040	2724180	224	•	•
	PSR033FL2000	PSR033FS2000	2000	550	600	500	200 kA	150 kA	1234315	4131600	3755180	222	•	•

POWR-SPEED® Fuses

PSR SERIES HIGH-SPEED SQUARE BODY

Electrical Characteristics (cont.)

CASE SIZE	CATALOG NUMBER		AMPERAGE RATING (A)	VOLTAGE RATING (V)			INTERRUPTING RATING		MELTING (PRE-ARC) I²T (A²s)	TOTAL CLEARING I²T (A²s) AT RATED VOLTAGE		WATT LOSS AT 100 % RATED CURRENT (W)	AGENCY CERTIFICATION	
	FLUSH END METRIC THREAD	FLUSH END INCHES THREAD		AC		DC	AC	DC		AC	DC			
				IEC	UL									
70	PSR070FL0050	PSR070FS0050	50	1250	1300	1000	100 kA	150 kA	177	2050	400	21	•	•
	PSR070FL0063	PSR070FS0063	63	1250	1300	1000	100 kA	150 kA	273	3399	900	23	•	•
	PSR070FL0080	PSR070FS0080	80	1250	1300	1000	100 kA	150 kA	583	6732	2200	24	•	•
	PSR070FL0100	PSR070FS0100	100	1250	1300	1000	100 kA	150 kA	974	10996	3750	29	•	•
	PSR070FL0125	PSR070FS0125	125	1250	1300	1000	100 kA	150 kA	1352	13011	5150	43	•	•
	PSR070FL0160	PSR070FS0160	160	1250	1300	1000	100 kA	150 kA	2377	25662	8950	51	•	•
	PSR070FL0200	PSR070FS0200	200	1250	1300	1000	100 kA	150 kA	4177	39087	17267	61	•	•
	PSR070FL0250	PSR070FS0250	250	1250	1300	1000	100 kA	150 kA	8629	89790	36750	71	•	•
	PSR070FL0280	PSR070FS0280	280	1250	1300	1000	100 kA	150 kA	11844	113201	46750	71	•	•
PSR070FL0315	PSR070FS0315	315	1250	1300	1000	100 kA	150 kA	18162	142051	66833	69	•	•	
71	PSR071FL0160	PSR071FS0160	160	1250	1300	1000	100 kA	150 kA	2756	24600	8800	42	•	•
	PSR071FL0200	PSR071FS0200	200	1250	1300	1000	100 kA	150 kA	4918	50307	19050	52	•	•
	PSR071FL0250	PSR071FS0250	250	1250	1300	1000	100 kA	150 kA	10592	104427	43100	54	•	•
	PSR071FL0280	PSR071FS0280	280	1250	1300	1000	100 kA	150 kA	13763	131897	54150	58	•	•
	PSR071FL0315	PSR071FS0315	315	1250	1300	1000	100 kA	150 kA	20882	200244	67450	60	•	•
	PSR071FL0350	PSR071FS0350	350	1250	1300	1000	100 kA	150 kA	23301	225500	102500	71	•	•
	PSR071FL0400	PSR071FS0400	400	1250	1300	1000	100 kA	150 kA	43211	374986	185000	69	•	•
PSR071FL0450	PSR071FS0450	450	1250	1300	1000	100 kA	150 kA	55915	452394	241333	88	•	•	
72	PSR072FL0250	PSR072FS0250	250	1250	1300	1000	100 kA	150 kA	7737	72789	28567	63	•	•
	PSR072FL0280	PSR072FS0280	280	1250	1300	1000	100 kA	150 kA	10915	124538	46897	62	•	•
	PSR072FL0315	PSR072FS0315	315	1250	1300	1000	100 kA	150 kA	16187	145140	58867	67	•	•
	PSR072FL0350	PSR072FS0350	350	1250	1300	1000	100 kA	150 kA	18727	160447	69633	80	•	•
	PSR072FL0400	PSR072FS0400	400	1250	1300	1000	100 kA	150 kA	27112	243540	108000	89	•	•
	PSR072FL0450	PSR072FS0450	450	1250	1300	1000	100 kA	150 kA	35927	406413	159133	107	•	•
	PSR072FL0500	PSR072FS0500	500	1250	1300	1000	100 kA	150 kA	50398	425375	216333	115	•	•
	PSR072FL0550	PSR072FS0550	550	1250	1300	1000	100 kA	150 kA	73858	539833	271333	115	•	•
	PSR072FL0630	PSR072FS0630	630	1250	1300	1000	100 kA	150 kA	126126	942180	436000	119	•	•
73	PSR073FL0315	PSR073FS0315	315	1250	1300	1000	100 kA	150 kA	10245	106600	38650	88	•	•
	PSR073FL0350	PSR073FS0350	350	1250	1300	1000	100 kA	150 kA	13586	159627	57467	96	•	•
	PSR073FL0400	PSR073FS0400	400	1250	1300	1000	100 kA	150 kA	19797	211273	86800	124	•	•
	PSR073FL0450	PSR073FS0450	450	1250	1300	1000	100 kA	150 kA	29834	279073	114333	122	•	•
	PSR073FL0500	PSR073FS0500	500	1250	1300	1000	100 kA	150 kA	42751	416437	184500	121	•	•
	PSR073FL0550	PSR073FS0550	550	1250	1300	1000	100 kA	150 kA	55513	491713	224500	130	•	•
	PSR073FL0630	PSR073FS0630	630	1250	1300	1000	100 kA	150 kA	94649	804338	377500	136	•	•
	PSR073FL0700	PSR073FS0700	700	1250	1300	1000	100 kA	150 kA	158097	1170960	575667	135	•	•

POWR-SPEED® Fuses

PSR SERIES HIGH-SPEED SQUARE BODY

Ordering Information

CASE SIZE	FLUSH END - METRIC THREAD			FLUSH END - INCHES THREAD			BOX QUANTITY PCS/BOX
	CATALOG NUMBER	ORDERING PART NUMBER	UPC	CATALOG NUMBER	ORDERING PART NUMBER	UPC	
30	PSR030FL0040	PSR030FL0040Z	07945820436	PSR030FS0040	PSR030FS0040Z	07945820451	3 pcs/box
	PSR030FL0050	PSR030FL0050Z	07945820437	PSR030FS0050	PSR030FS0050Z	07945820452	3 pcs/box
	PSR030FL0063	PSR030FL0063Z	07945820438	PSR030FS0063	PSR030FS0063Z	07945820453	3 pcs/box
	PSR030FL0080	PSR030FL0080Z	07945820439	PSR030FS0080	PSR030FS0080Z	07945820454	3 pcs/box
	PSR030FL0100	PSR030FL0100Z	07945820440	PSR030FS0100	PSR030FS0100Z	07945820455	3 pcs/box
	PSR030FL0125	PSR030FL0125Z	07945820441	PSR030FS0125	PSR030FS0125Z	07945820456	3 pcs/box
	PSR030FL0160	PSR030FL0160Z	07945820442	PSR030FS0160	PSR030FS0160Z	07945820457	3 pcs/box
	PSR030FL0200	PSR030FL0200Z	07945820443	PSR030FS0200	PSR030FS0200Z	07945820458	3 pcs/box
	PSR030FL0250	PSR030FL0250Z	07945820444	PSR030FS0250	PSR030FS0250Z	07945820459	3 pcs/box
	PSR030FL0315	PSR030FL0315Z	07945820445	PSR030FS0315	PSR030FS0315Z	07945820460	3 pcs/box
	PSR030FL0350	PSR030FL0350Z	07945820446	PSR030FS0350	PSR030FS0350Z	07945820461	3 pcs/box
	PSR030FL0400	PSR030FL0400Z	07945820447	PSR030FS0400	PSR030FS0400Z	07945820462	3 pcs/box
	PSR030FL0450	PSR030FL0450Z	07945820448	PSR030FS0450	PSR030FS0450Z	07945820463	3 pcs/box
	PSR030FL0500	PSR030FL0500Z	07945820449	PSR030FS0500	PSR030FS0500Z	07945820464	3 pcs/box
	PSR030FL0550	PSR030FL0550Z	07945820450	PSR030FS0550	PSR030FS0550Z	07945820465	3 pcs/box
31	PSR031FL0200	PSR031FL0200Z	07945820466	PSR031FS0200	PSR031FS0200Z	07945820477	3 pcs/box
	PSR031FL0250	PSR031FL0250Z	07945820467	PSR031FS0250	PSR031FS0250Z	07945820478	3 pcs/box
	PSR031FL0315	PSR031FL0315Z	07945820468	PSR031FS0315	PSR031FS0315Z	07945820479	3 pcs/box
	PSR031FL0350	PSR031FL0350Z	07945820469	PSR031FS0350	PSR031FS0350Z	07945820480	3 pcs/box
	PSR031FL0400	PSR031FL0400Z	07945820470	PSR031FS0400	PSR031FS0400Z	07945820481	3 pcs/box
	PSR031FL0450	PSR031FL0450Z	07945820471	PSR031FS0450	PSR031FS0450Z	07945820482	3 pcs/box
	PSR031FL0500	PSR031FL0500Z	07945820472	PSR031FS0500	PSR031FS0500Z	07945820483	3 pcs/box
	PSR031FL0550	PSR031FL0550Z	07945820473	PSR031FS0550	PSR031FS0550Z	07945820484	3 pcs/box
	PSR031FL0630	PSR031FL0630Z	07945820474	PSR031FS0630	PSR031FS0630Z	07945820485	3 pcs/box
	PSR031FL0700	PSR031FL0700Z	07945820475	PSR031FS0700	PSR031FS0700Z	07945820486	3 pcs/box
32	PSR032FL0400	PSR032FL0400Z	07945820488	PSR032FS0400	PSR032FS0400Z	07945820498	3 pcs/box
	PSR032FL0450	PSR032FL0450Z	07945820489	PSR032FS0450	PSR032FS0450Z	07945820499	3 pcs/box
	PSR032FL0500	PSR032FL0500Z	07945820490	PSR032FS0500	PSR032FS0500Z	07945820500	3 pcs/box
	PSR032FL0550	PSR032FL0550Z	07945820491	PSR032FS0550	PSR032FS0550Z	07945820501	3 pcs/box
	PSR032FL0630	PSR032FL0630Z	07945820492	PSR032FS0630	PSR032FS0630Z	07945820502	3 pcs/box
	PSR032FL0700	PSR032FL0700Z	07945820493	PSR032FS0700	PSR032FS0700Z	07945820503	3 pcs/box
	PSR032FL0800	PSR032FL0800Z	07945820494	PSR032FS0800	PSR032FS0800Z	07945820504	3 pcs/box
	PSR032FL0900	PSR032FL0900Z	07945820495	PSR032FS0900	PSR032FS0900Z	07945820505	3 pcs/box
	PSR032FL1000	PSR032FL1000Z	07945820496	PSR032FS1000	PSR032FS1000Z	07945820506	3 pcs/box
	PSR032FL1100	PSR032FL1100Z	07945820497	PSR032FS1100	PSR032FS1100Z	07945820507	3 pcs/box
33	PSR033FL0450	PSR033FL0450Z	07945822163	PSR033FS0450	PSR033FS0450Z	07945822164	3 pcs/box
	PSR033FL0500	PSR033FL0500Z	07945820508	PSR033FS0500	PSR033FS0500Z	07945820522	3 pcs/box
	PSR033FL0550	PSR033FL0550Z	07945820509	PSR033FS0550	PSR033FS0550Z	07945820523	3 pcs/box
	PSR033FL0630	PSR033FL0630Z	07945820510	PSR033FS0630	PSR033FS0630Z	07945820524	3 pcs/box
	PSR033FL0700	PSR033FL0700Z	07945820511	PSR033FS0700	PSR033FS0700Z	07945820525	3 pcs/box
	PSR033FL0800	PSR033FL0800Z	07945820512	PSR033FS0800	PSR033FS0800Z	07945820526	3 pcs/box
	PSR033FL0900	PSR033FL0900Z	07945820513	PSR033FS0900	PSR033FS0900Z	07945820527	3 pcs/box
	PSR033FL1000	PSR033FL1000Z	07945820514	PSR033FS1000	PSR033FS1000Z	07945820528	3 pcs/box
	PSR033FL1100	PSR033FL1100Z	07945820515	PSR033FS1100	PSR033FS1100Z	07945820529	3 pcs/box
	PSR033FL1250	PSR033FL1250Z	07945820516	PSR033FS1250	PSR033FS1250Z	07945820530	3 pcs/box
	PSR033FL1400	PSR033FL1400Z	07945820517	PSR033FS1400	PSR033FS1400Z	07945820531	3 pcs/box
	PSR033FL1500	PSR033FL1500Z	07945820518	PSR033FS1500	PSR033FS1500Z	07945820532	3 pcs/box
	PSR033FL1600	PSR033FL1600Z	07945820519	PSR033FS1600	PSR033FS1600Z	07945820533	3 pcs/box
	PSR033FL1800	PSR033FL1800Z	07945820520	PSR033FS1800	PSR033FS1800Z	07945820534	3 pcs/box
	PSR033FL2000	PSR033FL2000Z	07945820521	PSR033FS2000	PSR033FS2000Z	07945820535	3 pcs/box

POWR-SPEED® Fuses

PSR SERIES HIGH-SPEED SQUARE BODY

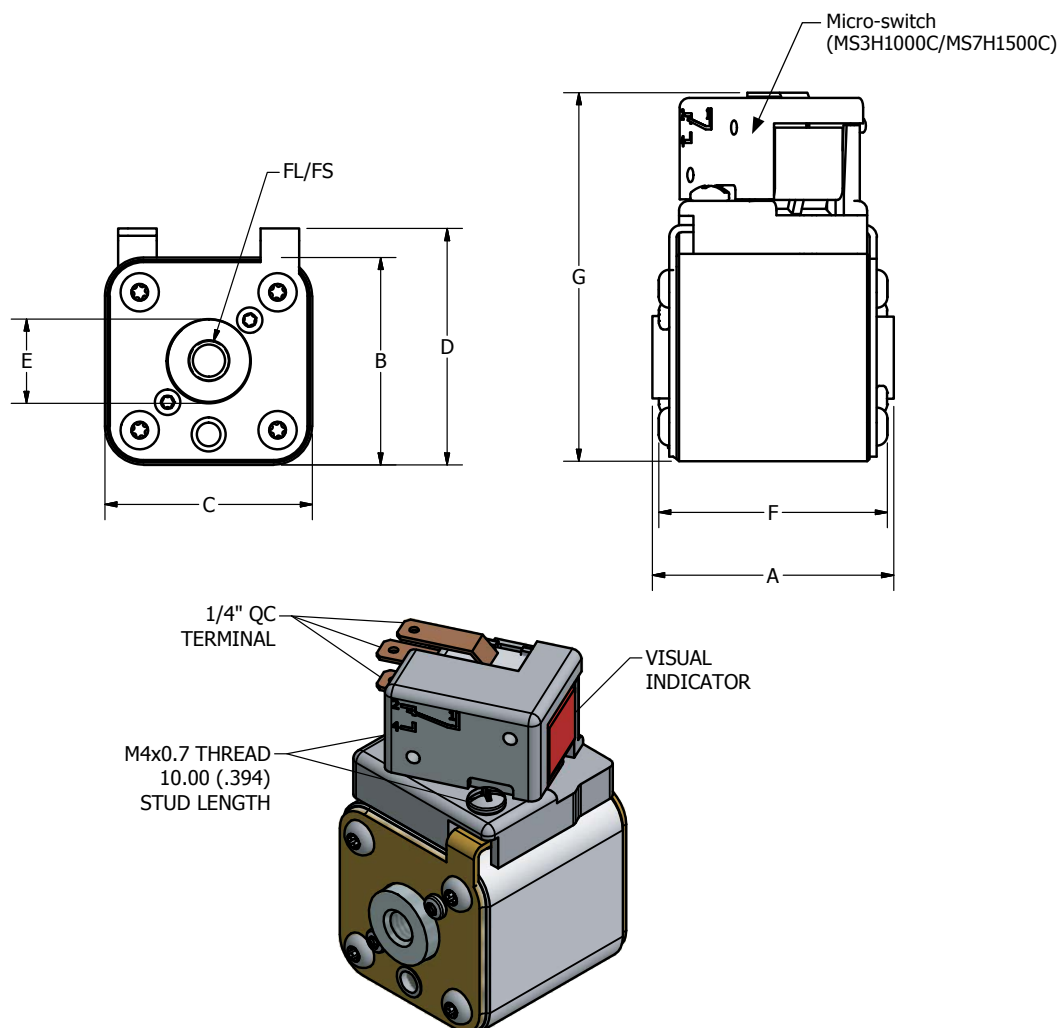
Ordering Information (cont.)

CASE SIZE	FLUSH END - METRIC THREAD			FLUSH END - INCHES THREAD			BOX QUANTITY PCS/BOX
	CATALOG NUMBER	ORDERING PART NUMBER	UPC	CATALOG NUMBER	ORDERING PART NUMBER	UPC	
70	PSR070FL0050	PSR070FL0050Z	07945820536	PSR070FS0050	PSR070FS0050Z	07945820546	2 pcs/box
	PSR070FL0063	PSR070FL0063Z	07945820537	PSR070FS0063	PSR070FS0063Z	07945820547	2 pcs/box
	PSR070FL0080	PSR070FL0080Z	07945820538	PSR070FS0080	PSR070FS0080Z	07945820548	2 pcs/box
	PSR070FL0100	PSR070FL0100Z	07945820539	PSR070FS0100	PSR070FS0100Z	07945820549	2 pcs/box
	PSR070FL0125	PSR070FL0125Z	07945820540	PSR070FS0125	PSR070FS0125Z	07945820550	2 pcs/box
	PSR070FL0160	PSR070FL0160Z	07945820541	PSR070FS0160	PSR070FS0160Z	07945820551	2 pcs/box
	PSR070FL0200	PSR070FL0200Z	07945820542	PSR070FS0200	PSR070FS0200Z	07945820552	2 pcs/box
	PSR070FL0250	PSR070FL0250Z	07945820543	PSR070FS0250	PSR070FS0250Z	07945820553	2 pcs/box
	PSR070FL0280	PSR070FL0280Z	07945820544	PSR070FS0280	PSR070FS0280Z	07945820554	2 pcs/box
	PSR070FL0315	PSR070FL0315Z	07945820545	PSR070FS0315	PSR070FS0315Z	07945820555	2 pcs/box
71	PSR071FL0160	PSR071FL0160Z	07945820556	PSR071FS0160	PSR071FS0160Z	07945820564	2 pcs/box
	PSR071FL0200	PSR071FL0200Z	07945820557	PSR071FS0200	PSR071FS0200Z	07945820565	2 pcs/box
	PSR071FL0250	PSR071FL0250Z	07945820558	PSR071FS0250	PSR071FS0250Z	07945820566	2 pcs/box
	PSR071FL0280	PSR071FL0280Z	07945820573	PSR071FS0280	PSR071FS0280Z	07945820582	2 pcs/box
	PSR071FL0315	PSR071FL0315Z	07945820560	PSR071FS0315	PSR071FS0315Z	07945820568	2 pcs/box
	PSR071FL0350	PSR071FL0350Z	07945820561	PSR071FS0350	PSR071FS0350Z	07945820569	2 pcs/box
	PSR071FL0400	PSR071FL0400Z	07945820562	PSR071FS0400	PSR071FS0400Z	07945820570	2 pcs/box
	PSR071FL0450	PSR071FL0450Z	07945820563	PSR071FS0450	PSR071FS0450Z	07945820571	2 pcs/box
72	PSR072FL0250	PSR072FL0250Z	07945820572	PSR072FS0250	PSR072FS0250Z	07945820581	2 pcs/box
	PSR072FL0280	PSR072FL0280Z	07945820573	PSR072FS0280	PSR072FS0280Z	07945820582	2 pcs/box
	PSR072FL0315	PSR072FL0315Z	07945820574	PSR072FS0315	PSR072FS0315Z	07945820583	2 pcs/box
	PSR072FL0350	PSR072FL0350Z	07945820575	PSR072FS0350	PSR072FS0350Z	07945820584	2 pcs/box
	PSR072FL0400	PSR072FL0400Z	07945820576	PSR072FS0400	PSR072FS0400Z	07945820585	2 pcs/box
	PSR072FL0450	PSR072FL0450Z	07945820577	PSR072FS0450	PSR072FS0450Z	07945820586	2 pcs/box
	PSR072FL0500	PSR072FL0500Z	07945820578	PSR072FS0500	PSR072FS0500Z	07945820587	2 pcs/box
	PSR072FL0550	PSR072FL0550Z	07945820579	PSR072FS0550	PSR072FS0550Z	07945820588	2 pcs/box
73	PSR073FL0630	PSR072FL0630Z	07945820580	PSR072FS0630	PSR072FS0630Z	07945820589	2 pcs/box
	PSR073FL0315	PSR073FL0315Z	07945820590	PSR073FS0315	PSR073FS0315Z	07945820602	2 pcs/box
	PSR073FL0350	PSR073FL0350Z	07945820591	PSR073FS0350	PSR073FS0350Z	07945820603	2 pcs/box
	PSR073FL0400	PSR073FL0400Z	07945820592	PSR073FS0400	PSR073FS0400Z	07945820604	2 pcs/box
	PSR073FL0450	PSR073FL0450Z	07945820593	PSR073FS0450	PSR073FS0450Z	07945820605	2 pcs/box
	PSR073FL0500	PSR073FL0500Z	07945820594	PSR073FS0500	PSR073FS0500Z	07945820606	2 pcs/box
	PSR073FL0550	PSR073FL0550Z	07945820595	PSR073FS0550	PSR073FS0550Z	07945820607	2 pcs/box
	PSR073FL0630	PSR073FL0630Z	07945820596	PSR073FS0630	PSR073FS0630Z	07945820608	2 pcs/box
	PSR073FL0700	PSR073FL0700Z	07945820597	PSR073FS0700	PSR073FS0700Z	07945820609	2 pcs/box

POWR-SPEED® Fuses

PSR SERIES HIGH-SPEED SQUARE BODY

Dimensions



DIMENSIONS IN MM (IN)										
CASE SIZE	A	B	C	D	E	F	G	FL METRIC THREAD	FS INCHES THREAD	RECOMMENDED TORQUE
30	50.0 (1.97)	43.0 (1.69)	43.0 (1.69)	49.0 (1.93)	17.0 (0.67)	47.4 (1.86)	76.4 (3.01)	M8 x 1.25	5/16"–18 UNC 2B	13–20 Nm
31	50.0 (1.97)	51.5 (2.03)	51.5 (2.03)	57.5 (2.26)	20.0 (0.8)	48.2 (1.90)	84.9 (3.34)	M8 x 1.25	5/16"–18 UNC 2B	13–20 Nm
32	51.0 (2.01)	60.0 (2.36)	60.0 (2.36)	66.0 (2.60)	23.0 (0.91)	48.8 (1.92)	93.4 (3.68)	M10 x 1.5	3/8"–16 UNC 2B	26–35 Nm
33	51.0 (2.01)	73.5 (2.89)	73.5 (2.89)	79.5 (3.13)	30.0 (1.18)	49.2 (1.94)	106.9 (4.21)	M12 x 1.75	1/2"–13 UNC 2B	45–55 Nm
70	74.0 (2.91)	43.0 (1.69)	43.0 (1.69)	49.0 (1.93)	17.0 (0.67)	71.4 (2.81)	76.4 (3.01)	M8 x 1.25	5/16"–18 UNC 2B	13–20 Nm
71	74.0 (2.91)	51.5 (2.03)	51.5 (2.03)	57.5 (2.26)	20.0 (0.79)	72.2 (2.84)	84.9 (3.34)	M8 x 1.25	5/16"–18 UNC 2B	13–20 Nm
72	75.0 (2.95)	60.0 (2.36)	60.0 (2.36)	66.0 (2.60)	23.0 (0.91)	72.8 (2.87)	93.4 (3.68)	M10 x 1.5	3/8"–16 UNC 2B	26–35 Nm
73	75.0 (2.95)	73.5 (2.89)	73.5 (2.89)	79.5 (3.13)	30.0 (1.18)	73.2 (2.88)	106.9 (4.21)	M12 x 1.75	1/2"–13 UNC 2B	45–55 Nm

POWR-SPEED® Fuses

PSR SERIES HIGH-SPEED SQUARE BODY BOLTED BLADE

Semiconductor Fuses • Bolted Blade • 40 A—2000 A



Description

Littelfuse PSR series high-speed square body fuses are specially designed for protection of power semiconductor devices such as diodes, triacs, IGBTs, SCRs, MOSFETs, and other solid-state devices that are typically designed into power conversion and power conditioning equipment. Variable frequency drives, inverters, UPS, rectifiers, and soft-starters are examples of typical equipment designed with sensitive power semiconductor devices that cannot withstand any line surge or overcurrent conditions and require high-speed protection.

Littelfuse POWR-SPEED® PSR series products offer optimized circuit protection at the extremely fast speed required to protect modern day power conversion devices. Available in bolted blade style termination (typical in North American market) with visual blown fuse indication standard on all fuses and optional micro-switch for external indication.

Features/Benefits

- Best in class dc performance
- Extremely current limiting
- Superior cycling capability
- Global certification cURus, IEC
- Visual and optional microswitch fuse blown indication
- Low watt-loss design
- Compliance with US and Canadian requirements
- Class aR performance according to IEC60269-4

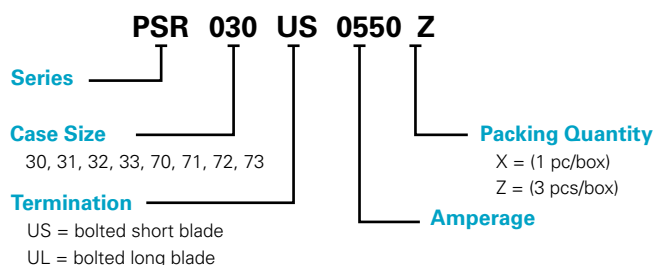
Applications

- Power conversion devices (UPS, inverter, rectifiers, drives)
- Dc systems (dc common bus, dc injection braking)
- Battery protection application (energy storage systems)
- Electric vehicle charging stations
- Heaters and power supplies

Specifications

Voltage Rating	Ac: 550 V–1300 V Dc: 480 V–1000 V
Amperage Rating	40 A–2000 A
Interrupting Rating	Ac: 100 kA–200 kA Dc: 150 kA
Time Constant	10 ms
Microswitch	Yes
Mounting	Bolted blade style
Material	Body: ceramic Contacts: plated copper
Approvals	UL 248-13 Recognized (File: E71611) cURus (File: E71611) IEC 60269-4 (Class aR)
Environmental	RoHS Compliant, REACH
Operating Temperature	-55 °C to +125 °C
Storage Temperature	Up to +35 °C with relative humidity <65 %
Country of Origin	Mexico

Ordering Part Number



Catalog Number

SERIES	CASE SIZE	TERMINATION	AMPERAGE	CATALOG NUMBER	ORDERING PART NUMBER
PSR	030	US	0550	PSR030US0550	PSR030US0550Z

Recommended Accessories

Microswitch: MS3H1000C (Case Size 30 to 33)
MS7H1500C (Case Size 70 to 73)

Web Resources

Download technical documents: Littelfuse.com/psr

Note: high-speed fuses are designed for fixed installations. They are not intended for use in moving vehicle applications.

POWR-SPEED® Fuses

PSR SERIES HIGH-SPEED SQUARE BODY BOLTED BLADE

Electrical Characteristics

CASE SIZE	CATALOG NUMBER		AMPERAGE RATING (A)	VOLTAGE RATING (V)			INTERRUPTING RATING		MELTING (PRE-ARC) I²T (A²S)	TOTAL CLEARING I²T (A²S) AT RATED VOLTAGE		WATT LOSS AT 100 % RATED CURRENT (W)	AGENCY CERTIFICATION
	BOLTED SHORT BLADE (US)	BOLTED LONG BLADE (UL)		AC		DC	AC	DC		AC	DC		
				IEC	UL								cURus
30	PSR030US0040	PSR030UL0040	40	690	700	600	200 kA	150 kA	76	280	260	13	•
	PSR030US0050	PSR030UL0050	50	690	700	600	200 kA	150 kA	110	598	384	16	•
	PSR030US0063	PSR030UL0063	63	690	700	600	200 kA	150 kA	176	1023	640	20	•
	PSR030US0080	PSR030UL0080	80	690	700	600	200 kA	150 kA	304	1728	1252	24	•
	PSR030US0100	PSR030UL0100	100	690	700	600	200 kA	150 kA	437	2835	1575	28	•
	PSR030US0125	PSR030UL0125	125	690	700	600	200 kA	150 kA	707	4684	2783	37	•
	PSR030US0160	PSR030UL0160	160	690	700	600	200 kA	150 kA	1359	9114	5507	40	•
	PSR030US0200	PSR030UL0200	200	690	700	600	200 kA	150 kA	3012	15169	14700	40	•
	PSR030US0250	PSR030UL0250	250	690	700	600	200 kA	150 kA	4668	29952	20833	52	•
	PSR030US0315	PSR030UL0315	315	690	700	600	200 kA	150 kA	7131	61830	31600	64	•
	PSR030US0350	PSR030UL0350	350	690	700	600	200 kA	150 kA	12007	85320	49273	66	•
	PSR030US0400	PSR030UL0400	400	690	700	600	200 kA	150 kA	16209	114750	63367	78	•
	PSR030US0450	PSR030UL0450	450	690	700	600	200 kA	150 kA	23133	160110	93533	80	•
PSR030US0500	PSR030UL0500	500	690	700	600	200 kA	150 kA	31429	225180	137333	84	•	
PSR030US0550	PSR030UL0550	550	690	700	600	200 kA	150 kA	44323	268920	145400	85	•	
31	PSR031US0200	PSR031UL0200	200	690	700	600	200 kA	150 kA	1965	17334	16188	49	•
	PSR031US0250	PSR031UL0250	250	690	700	600	200 kA	150 kA	3789	35343	21080	52	•
	PSR031US0315	PSR031UL0315	315	690	700	600	200 kA	150 kA	6862	59130	30694	63	•
	PSR031US0350	PSR031UL0350	350	690	700	600	200 kA	150 kA	9523	76140	40996	67	•
	PSR031US0400	PSR031UL0400	400	690	700	600	200 kA	150 kA	14770	124335	64359	70	•
	PSR031US0450	PSR031UL0450	450	690	700	600	200 kA	150 kA	22457	178200	97444	70	•
	PSR031US0500	PSR031UL0500	500	690	700	600	200 kA	150 kA	29751	251505	125935	74	•
	PSR031US0550	PSR031UL0550	550	690	700	600	200 kA	150 kA	42056	289170	171845	86	•
	PSR031US0630	PSR031UL0630	630	690	700	600	200 kA	150 kA	73513	507465	276315	87	•
	PSR031US0700	PSR031UL0700	700	690	700	600	200 kA	150 kA	98187	601425	337260	93	•
	PSR031US0800	PSR031UL0800	800	690	700	600	200 kA	150 kA	137208	848880	502815	107	•
32	PSR032US0400	PSR032UL0400	400	690	700	600	200 kA	150 kA	11104	79650	44533	87	•
	PSR032US0450	PSR032UL0450	450	690	700	600	200 kA	150 kA	15535	116100	65463	88	•
	PSR032US0500	PSR032UL0500	500	690	700	600	200 kA	150 kA	21573	161460	88277	94	•
	PSR032US0550	PSR032UL0550	550	690	700	600	200 kA	150 kA	26327	177660	107960	106	•
	PSR032US0630	PSR032UL0630	630	690	700	600	200 kA	150 kA	34790	234900	156963	114	•
	PSR032US0700	PSR032UL0700	700	690	700	600	200 kA	150 kA	51191	291870	209287	127	•
	PSR032US0800	PSR032UL0800	800	690	700	600	200 kA	150 kA	60125	472770	249000	152	•
	PSR032US0900	PSR032UL0900	900	690	700	600	200 kA	150 kA	107785	764100	404000	145	•
	PSR032US1000	PSR032UL1000	1000	690	700	600	200 kA	150 kA	190102	933120	672333	149	•
PSR032US1100	PSR032UL1100	1100	690	700	600	200 kA	150 kA	225379	1247400	744000	161	•	
33	PSR033US0450	PSR033UL0450	450	690	700	600	200 kA	150 kA	13600	106380	58947	107	•
	PSR033US0500	PSR033UL0500	500	690	700	600	200 kA	150 kA	16434	140400	77846	107	•
	PSR033US0550	PSR033UL0550	550	690	700	600	200 kA	150 kA	23314	187650	100461	111	•
	PSR033US0630	PSR033UL0630	630	690	700	600	200 kA	150 kA	38727	285930	142437	120	•
	PSR033US0700	PSR033UL0700	700	690	700	600	200 kA	150 kA	56763	392580	209863	116	•
	PSR033US0800	PSR033UL0800	800	690	700	600	200 kA	150 kA	84691	575505	348500	122	•
	PSR033US0900	PSR033UL0900	900	690	700	600	200 kA	150 kA	122619	740340	451177	138	•
	PSR033US1000	PSR033UL1000	1000	690	700	600	200 kA	150 kA	222350	1170450	787750	138	•
	PSR033US1100	PSR033UL1100	1100	690	700	600	200 kA	150 kA	310824	1568700	821400	138	•
	PSR033US1250	PSR033UL1250	1250	690	700	500	200 kA	150 kA	476902	2403000	1674333	145	•
	PSR033US1400	PSR033UL1400	1400	690	700	500	200 kA	150 kA	583552	2920050	1979750	173	•
	PSR033US1500	PSR033UL1500	1500	600	650	500	200 kA	150 kA	674538	2433200	1996733	182	•
	PSR033US1600	PSR033UL1600	1600	600	650	500	200 kA	150 kA	779948	2942800	2301633	208	•
	PSR033US1800	PSR033UL1800	1800	600	650	500	200 kA	150 kA	952196	3785040	2724180	260	•
	PSR033US2000	PSR033UL2000	2000	550	600	480	200 kA	150 kA	1234315	4131600	3755180	264	•

POWR-SPEED® Fuses

PSR SERIES HIGH-SPEED SQUARE BODY BOLTED BLADE

Electrical Characteristics (cont.)

CASE SIZE	CATALOG NUMBER	AMPERAGE RATING (A)	VOLTAGE RATING (V)			INTERRUPTING RATING		MELTING (PRE-ARC) I ² T (A ² S)	TOTAL CLEARING I ² T (A ² S) AT RATED VOLTAGE		WATT LOSS AT 100 % RATED CURRENT (W)	AGENCY CERTIFICATION
	BOLTED LONG BLADE (UL)		AC		DC	AC	DC		AC	DC		cURus
			IEC	UL								
70	PSR070UL0050	50	1250	1300	1000	100 kA	150 kA	177	2050	400	21	•
	PSR070UL0063	63	1250	1300	1000	100 kA	150 kA	273	3399	900	24	•
	PSR070UL0080	80	1250	1300	1000	100 kA	150 kA	583	6732	2200	25	•
	PSR070UL0100	100	1250	1300	1000	100 kA	150 kA	974	10996	3750	30	•
	PSR070UL0125	125	1250	1300	1000	100 kA	150 kA	1352	13011	5150	44	•
	PSR070UL0160	160	1250	1300	1000	100 kA	150 kA	2377	25662	8950	53	•
	PSR070UL0200	200	1250	1300	1000	100 kA	150 kA	4177	39087	17267	62	•
	PSR070UL0250	250	1250	1300	1000	100 kA	150 kA	8629	89790	36750	73	•
71	PSR070UL0280	280	1250	1300	1000	100 kA	150 kA	11844	113201	46750	77	•
	PSR070UL0315	315	1250	1300	1000	100 kA	150 kA	18162	142051	66833	80	•
	PSR071UL0160	160	1250	1300	1000	100 kA	150 kA	2756	24600	8800	45	•
	PSR071UL0200	200	1250	1300	1000	100 kA	150 kA	4918	50307	19050	52	•
	PSR071UL0250	250	1250	1300	1000	100 kA	150 kA	10592	104427	43100	55	•
	PSR071UL0280	280	1250	1300	1000	100 kA	150 kA	13763	131897	54150	58	•
	PSR071UL0315	315	1250	1300	1000	100 kA	150 kA	20882	200244	67450	59	•
	PSR071UL0350	350	1250	1300	1000	100 kA	150 kA	23301	225500	102500	70	•
72	PSR071UL0400	400	1250	1300	1000	100 kA	150 kA	43211	374986	185000	76	•
	PSR071UL0450	450	1250	1300	1000	100 kA	150 kA	55915	452394	241333	88	•
	PSR072UL0250	250	1250	1300	1000	100 kA	150 kA	7737	72789	28567	64	•
	PSR072UL0280	280	1250	1300	1000	100 kA	150 kA	10915	124538	46897	62	•
	PSR072UL0315	315	1250	1300	1000	100 kA	150 kA	16187	145140	58867	69	•
	PSR072UL0350	350	1250	1300	1000	100 kA	150 kA	18727	160447	69633	81	•
	PSR072UL0400	400	1250	1300	1000	100 kA	150 kA	27112	243540	108000	93	•
	PSR072UL0450	450	1250	1300	1000	100 kA	150 kA	35927	406413	159133	107	•
73	PSR072UL0500	500	1250	1300	1000	100 kA	150 kA	50398	425375	216333	115	•
	PSR072UL0550	550	1250	1300	1000	100 kA	150 kA	73858	539833	271333	115	•
	PSR072UL0630	630	1250	1300	1000	100 kA	150 kA	126126	942180	436000	119	•
	PSR073UL0315	315	1250	1300	1000	100 kA	150 kA	10245	106600	38650	100	•
	PSR073UL0350	350	1250	1300	1000	100 kA	150 kA	13586	159627	57467	100	•
	PSR073UL0400	400	1250	1300	1000	100 kA	150 kA	19797	211273	86800	124	•
	PSR073UL0450	450	1250	1300	1000	100 kA	150 kA	29834	279073	114333	122	•
	PSR073UL0500	500	1250	1300	1000	100 kA	150 kA	42751	416437	184500	121	•

POWR-SPEED® Fuses

PSR SERIES HIGH-SPEED SQUARE BODY BOLTED BLADE

Ordering Information

CASE SIZE	BOLTED SHORT BLADE (US)			BOLTED LONG BLADE (UL)			BOX QUANTITY
	CATALOG NUMBER	ORDERING PART NUMBER	UPC	CATALOG NUMBER	ORDERING PART NUMBER	UPC	
30	PSR030US0040	PSR030US0040Z	07945825195	PSR030UL0040	PSR030UL0040Z	07945825246	3 pcs/box
	PSR030US0050	PSR030US0050Z	07945825196	PSR030UL0050	PSR030UL0050Z	07945825247	3 pcs/box
	PSR030US0063	PSR030US0063Z	07945825197	PSR030UL0063	PSR030UL0063Z	07945825248	3 pcs/box
	PSR030US0080	PSR030US0080Z	07945825198	PSR030UL0080	PSR030UL0080Z	07945825249	3 pcs/box
	PSR030US0100	PSR030US0100Z	07945825199	PSR030UL0100	PSR030UL0100Z	07945825250	3 pcs/box
	PSR030US0125	PSR030US0125Z	07945825200	PSR030UL0125	PSR030UL0125Z	07945825251	3 pcs/box
	PSR030US0160	PSR030US0160Z	07945825201	PSR030UL0160	PSR030UL0160Z	07945825252	3 pcs/box
	PSR030US0200	PSR030US0200Z	07945825202	PSR030UL0200	PSR030UL0200Z	07945825253	3 pcs/box
	PSR030US0250	PSR030US0250Z	07945825203	PSR030UL0250	PSR030UL0250Z	07945825254	3 pcs/box
	PSR030US0315	PSR030US0315Z	07945825204	PSR030UL0315	PSR030UL0315Z	07945825255	3 pcs/box
	PSR030US0350	PSR030US0350Z	07945825205	PSR030UL0350	PSR030UL0350Z	07945825256	3 pcs/box
	PSR030US0400	PSR030US0400Z	07945825206	PSR030UL0400	PSR030UL0400Z	07945825257	3 pcs/box
	PSR030US0450	PSR030US0450Z	07945825207	PSR030UL0450	PSR030UL0450Z	07945825258	3 pcs/box
	PSR030US0500	PSR030US0500Z	07945825208	PSR030UL0500	PSR030UL0500Z	07945825259	3 pcs/box
	PSR030US0550	PSR030US0550Z	07945825209	PSR030UL0550	PSR030UL0550Z	07945825260	3 pcs/box
31	PSR031US0200	PSR031US0200Z	07945825210	PSR031UL0200	PSR031UL0200Z	07945825261	3 pcs/box
	PSR031US0250	PSR031US0250Z	07945825211	PSR031UL0250	PSR031UL0250Z	07945825262	3 pcs/box
	PSR031US0315	PSR031US0315Z	07945825212	PSR031UL0315	PSR031UL0315Z	07945825263	3 pcs/box
	PSR031US0350	PSR031US0350Z	07945825213	PSR031UL0350	PSR031UL0350Z	07945825264	3 pcs/box
	PSR031US0400	PSR031US0400Z	07945825214	PSR031UL0400	PSR031UL0400Z	07945825265	3 pcs/box
	PSR031US0450	PSR031US0450Z	07945825215	PSR031UL0450	PSR031UL0450Z	07945825266	3 pcs/box
	PSR031US0500	PSR031US0500Z	07945825216	PSR031UL0500	PSR031UL0500Z	07945825267	3 pcs/box
	PSR031US0550	PSR031US0550Z	07945825217	PSR031UL0550	PSR031UL0550Z	07945825268	3 pcs/box
	PSR031US0630	PSR031US0630Z	07945825218	PSR031UL0630	PSR031UL0630Z	07945825269	3 pcs/box
	PSR031US0700	PSR031US0700Z	07945825219	PSR031UL0700	PSR031UL0700Z	07945825270	3 pcs/box
	PSR031US0800	PSR031US0800Z	07945825220	PSR031UL0800	PSR031UL0800Z	07945825271	3 pcs/box
32	PSR032US0400	PSR032US0400X	07945825221	PSR032UL0400	PSR032UL0400X	07945825272	1 pcs/box
	PSR032US0450	PSR032US0450X	07945825222	PSR032UL0450	PSR032UL0450X	07945825273	1 pcs/box
	PSR032US0500	PSR032US0500X	07945825223	PSR032UL0500	PSR032UL0500X	07945825274	1 pcs/box
	PSR032US0550	PSR032US0550X	07945825224	PSR032UL0550	PSR032UL0550X	07945825275	1 pcs/box
	PSR032US0630	PSR032US0630X	07945825225	PSR032UL0630	PSR032UL0630X	07945825276	1 pcs/box
	PSR032US0700	PSR032US0700X	07945825226	PSR032UL0700	PSR032UL0700X	07945825277	1 pcs/box
	PSR032US0800	PSR032US0800X	07945825227	PSR032UL0800	PSR032UL0800X	07945825278	1 pcs/box
	PSR032US0900	PSR032US0900X	07945825228	PSR032UL0900	PSR032UL0900X	07945825279	1 pcs/box
	PSR032US1000	PSR032US1000X	07945825229	PSR032UL1000	PSR032UL1000X	07945825280	1 pcs/box
	PSR032US1100	PSR032US1100X	07945825230	PSR032UL1100	PSR032UL1100X	07945825281	1 pcs/box
33	PSR033US0450	PSR033US0450X	07945825231	PSR033UL0450	PSR033UL0450X	07945825282	1 pcs/box
	PSR033US0500	PSR033US0500X	07945825232	PSR033UL0500	PSR033UL0500X	07945825283	1 pcs/box
	PSR033US0550	PSR033US0550X	07945825233	PSR033UL0550	PSR033UL0550X	07945825284	1 pcs/box
	PSR033US0630	PSR033US0630X	07945825234	PSR033UL0630	PSR033UL0630X	07945825285	1 pcs/box
	PSR033US0700	PSR033US0700X	07945825235	PSR033UL0700	PSR033UL0700X	07945825286	1 pcs/box
	PSR033US0800	PSR033US0800X	07945825236	PSR033UL0800	PSR033UL0800X	07945825287	1 pcs/box
	PSR033US0900	PSR033US0900X	07945825237	PSR033UL0900	PSR033UL0900X	07945825288	1 pcs/box
	PSR033US1000	PSR033US1000X	07945825238	PSR033UL1000	PSR033UL1000X	07945825289	1 pcs/box
	PSR033US1100	PSR033US1100X	07945825239	PSR033UL1100	PSR033UL1100X	07945825290	1 pcs/box
	PSR033US1250	PSR033US1250X	07945825240	PSR033UL1250	PSR033UL1250X	07945825291	1 pcs/box
	PSR033US1400	PSR033US1400X	07945825241	PSR033UL1400	PSR033UL1400X	07945825292	1 pcs/box
	PSR033US1500	PSR033US1500X	07945825242	PSR033UL1500	PSR033UL1500X	07945825293	1 pcs/box
	PSR033US1600	PSR033US1600X	07945825243	PSR033UL1600	PSR033UL1600X	07945825294	1 pcs/box
	PSR033US1800	PSR033US1800X	07945825244	PSR033UL1800	PSR033UL1800X	07945825295	1 pcs/box
	PSR033US2000	PSR033US2000X	07945825245	PSR033UL2000	PSR033UL2000X	07945825296	1 pcs/box

POWR-SPEED® Fuses

PSR SERIES HIGH-SPEED SQUARE BODY BOLTED BLADE

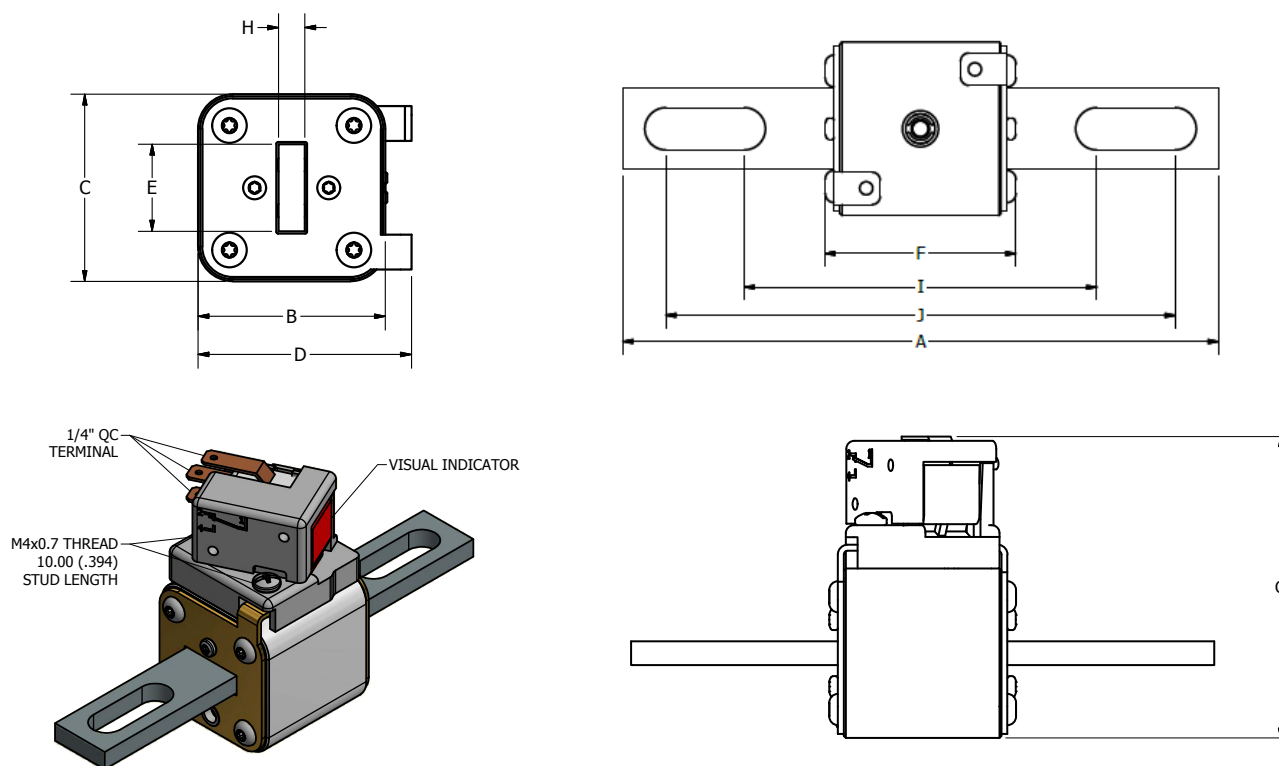
Ordering Information (cont.)

CASE SIZE	BOLTED LONG BLADE (UL)			BOX QUANTITY
	CATALOG NUMBER	ORDERING PART NUMBER	UPC	
70	PSR070UL0050	PSR070UL0050Z	07945825297	3 pcs/box
	PSR070UL0063	PSR070UL0063Z	07945825298	3 pcs/box
	PSR070UL0080	PSR070UL0080Z	07945825299	3 pcs/box
	PSR070UL0100	PSR070UL0100Z	07945825300	3 pcs/box
	PSR070UL0125	PSR070UL0125Z	07945825301	3 pcs/box
	PSR070UL0160	PSR070UL0160Z	07945825302	3 pcs/box
	PSR070UL0200	PSR070UL0200Z	07945825303	3 pcs/box
	PSR070UL0250	PSR070UL0250Z	07945825304	3 pcs/box
	PSR070UL0280	PSR070UL0280Z	07945825305	3 pcs/box
71	PSR071UL0315	PSR071UL0315Z	07945825306	3 pcs/box
	PSR071UL0160	PSR071UL0160Z	07945825307	3 pcs/box
	PSR071UL0200	PSR071UL0200Z	07945825308	3 pcs/box
	PSR071UL0250	PSR071UL0250Z	07945825309	3 pcs/box
	PSR071UL0280	PSR071UL0280Z	07945825310	3 pcs/box
	PSR071UL0315	PSR071UL0315Z	07945825311	3 pcs/box
	PSR071UL0350	PSR071UL0350Z	07945825312	3 pcs/box
	PSR071UL0400	PSR071UL0400Z	07945825313	3 pcs/box
	PSR071UL0450	PSR071UL0450Z	07945825314	3 pcs/box
72	PSR072UL0250	PSR072UL0250X	07945825315	1 pcs/box
	PSR072UL0280	PSR072UL0280X	07945825316	1 pcs/box
	PSR072UL0315	PSR072UL0315X	07945825317	1 pcs/box
	PSR072UL0350	PSR072UL0350X	07945825318	1 pcs/box
	PSR072UL0400	PSR072UL0400X	07945825319	1 pcs/box
	PSR072UL0450	PSR072UL0450X	07945825320	1 pcs/box
	PSR072UL0500	PSR072UL0500X	07945825321	1 pcs/box
	PSR072UL0550	PSR072UL0550X	07945825322	1 pcs/box
	PSR072UL0630	PSR072UL0630X	07945825323	1 pcs/box
73	PSR073UL0315	PSR073UL0315X	07945825324	1 pcs/box
	PSR073UL0350	PSR073UL0350X	07945825325	1 pcs/box
	PSR073UL0400	PSR073UL0400X	07945825326	1 pcs/box
	PSR073UL0450	PSR073UL0450X	07945825327	1 pcs/box
	PSR073UL0500	PSR073UL0500X	07945825328	1 pcs/box
	PSR073UL0550	PSR073UL0550X	07945825329	1 pcs/box
	PSR073UL0630	PSR073UL0630X	07945825330	1 pcs/box
	PSR073UL0700	PSR073UL0700X	07945825331	1 pcs/box

POWR-SPEED® Fuses

PSR SERIES HIGH-SPEED SQUARE BODY BOLTED BLADE

Dimensions (US and UL)



DIMENSIONS MM (IN)												
CASE SIZE	MOUNTING STYLE	A	B	C	D	E	F	G	H	I	J	RECOMMENDED FASTENER
30	Short [US]	127.5 (5.02)	43.0 (1.69)	43.0 (1.69)	49.0 (1.93)	20.0 (0.79)	47.4 (1.86)	76.4 (3.01)	6.0 (0.24)	68.1 (2.68)	107.1 (4.22)	10 mm (3/8)
	Long [UL]	148.0 (5.83)	43.0 (1.69)	43.0 (1.69)	49.0 (1.93)	20.0 (0.79)	47.4 (1.86)	76.4 (3.01)	6.0 (0.24)	87.7 (3.45)	126.7 (4.99)	10 mm (3/8)
31	Short [US]	133.0 (5.24)	51.5 (2.03)	51.5 (2.03)	57.5 (2.26)	25.0 (0.98)	48.2 (1.90)	84.9 (3.34)	6.0 (0.24)	68.1 (2.68)	109.1 (4.30)	12 mm (1/2)
	Long [UL]	153.0 (6.02)	51.5 (2.03)	51.5 (2.03)	57.5 (2.26)	25.0 (0.98)	48.2 (1.90)	84.9 (3.34)	6.0 (0.24)	91.4 (3.59)	128.9 (5.07)	12 mm (1/2)
32	Short [US]	133.0 (5.24)	60.0 (2.36)	60.0 (2.36)	66.0 (2.60)	25.0 (0.98)	48.2 (1.90)	93.4 (3.68)	6.0 (0.24)	68.0 (2.67)	109.0 (4.29)	12 mm (1/2)
	Long [UL]	153.0 (6.02)	60.0 (2.36)	60.0 (2.36)	66.0 (2.60)	25.0 (0.98)	48.2 (1.90)	93.4 (3.68)	6.0 (0.24)	91.5 (3.60)	129.0 (5.08)	12 mm (1/2)
33	Short [US]	135.0 (5.32)	73.5 (2.89)	73.5 (2.89)	79.5 (3.13)	36.0 (1.41)	49.2 (1.94)	106.9 (4.21)	6.0 (0.24)	75.1 (2.96)	108.1 (4.26)	14 mm (9/16)
	Long [UL]	155.0 (6.10)	73.5 (2.89)	73.5 (2.89)	79.5 (3.13)	36.0 (1.41)	49.2 (1.94)	106.9 (4.21)	6.0 (0.24)	94.0 (3.70)	127.0 (5.00)	14 mm (9/16)
70	Long [UL]	151.5 (5.97)	43.0 (1.69)	43.0 (1.69)	49.0 (1.93)	20.0 (0.79)	71.4 (2.81)	76.4 (3.01)	6.0 (0.24)	92.0 (3.62)	131.0 (5.16)	10 mm (3/8)
71	Long [UL]	157.0 (6.18)	51.5 (2.03)	51.5 (2.03)	57.5 (2.26)	25.0 (0.98)	72.2 (2.84)	84.9 (3.34)	6.0 (0.24)	92.0 (3.62)	133.0 (5.24)	12 mm (1/2)
72	Long [UL]	157.0 (6.18)	60.0 (2.36)	60.0 (2.36)	66.0 (2.60)	25.0 (0.98)	72.2 (2.84)	93.4 (3.68)	6.0 (0.24)	92.0 (3.62)	133.0 (5.24)	12 mm (1/2)
73	Long [UL]	159.0 (6.26)	73.5 (2.89)	73.5 (2.89)	79.5 (3.13)	36.0 (1.41)	73.2 (2.88)	106.9 (4.21)	6.0 (0.24)	99.0 (3.90)	132.0 (5.20)	14 mm (9/16)

POWR-SPEED® Fuses

PSR SERIES HIGH-SPEED SQUARE BODY DIN BLADE

Semiconductor Fuses • DIN 43653 Blade • 40 A–2000 A



Description

Littelfuse PSR series high-speed square body fuses are specially designed for protection of power semiconductor devices such as diodes, triacs, IGBTs, SCRs, MOSFETs, and other solid-state devices that are typically designed into power conversion and power conditioning equipment. Variable frequency drives, inverters, UPS, rectifiers, and soft-starters are examples of typical equipment designed with sensitive power semiconductor devices that cannot withstand any line surge or overcurrent conditions and require high-speed protection.

Littelfuse POWR-SPEED® PSR series products offer optimized circuit protection at the extremely fast speed required to protect modern day power conversion devices. Available in DIN43653 blade style termination with visual blown fuse indication standard on all fuses and optional micro-switch for external indication.

Features/Benefits

- Best in Class dc performance
- Extremely current limiting
- Superior cycling capability
- Global certification cURus, CCC, IEC
- Visual and optional microswitch fuse blown indication
- Low watt-loss design
- Compliance with US and Canadian requirements
- Class aR performance according to IEC60269-4

Applications

- Power conversion devices (UPS, inverter, rectifiers, drives)
- Dc systems (dc common bus, dc injection braking)
- Battery protection application (energy storage systems)
- Electric vehicle charging stations
- Heaters and power supplies

Specifications

Voltage Rating	Ac: 550 V–1300 V Dc: 480 V–1000 V
Amperage Rating	40 A–2000 A
Interrupting Rating	Ac: 100 kA–200 kA Dc: 150 kA
Time Constant	10 ms
Microswitch	Yes
Mounting	DIN 43653 blade style
Material	Body: ceramic Contacts: plated copper
Approvals	UL 248-13 Recognized (File: E71611) C-UR-US (File: E71611) IEC 60269-4 (Class aR) CCC
Environmental	RoHS Compliant, REACH
Operating Temperature	-55 °C to +125 °C
Storage Temperature	Up to +35 °C with relative humidity <65 %
Country of Origin	Mexico

Ordering Part Number

Series	PSR	Case Size	030	Termination	DS	Amperage	0550	Packing Quantity	Z
		30, 31, 32, 33, 70, 71, 72, 73		DS = DIN 80 mm fixing DL = DIN 110 mm fixing				X = (1 pc/box) Z = (3 pcs/box)	

Catalog Number

SERIES	CASE SIZE	TERMINATION	AMPERAGE	CATALOG NUMBER	ORDERING PART NUMBER
PSR	030	DS	0550	PSR030DS0550	PSR030DS0550Z

Recommended Accessories

Microswitch: MS3H1000C (Case Size 30 to 33)
MS7H1500C (Case Size 70 to 73)

Web Resources

Download technical documents: **Littelfuse.com/psr**

Note: high-speed fuses are designed for fixed installations. They are not intended for use in moving vehicle applications.

POWR-SPEED® Fuses

PSR SERIES HIGH-SPEED SQUARE BODY DIN BLADE

Electrical Characteristics

CASE SIZE	CATALOG NUMBER		AMPERAGE RATING (A)	VOLTAGE RATING (V)			INTERRUPTING RATING		MELTING (PRE-ARC) I²T (A²S)	TOTAL CLEARING I²T (A²S) AT RATED VOLTAGE		WATT LOSS AT 100 % RATED CURRENT (W)	AGENCY CERTIFICATION	
	DIN 80 MM FIXING (DS)	DIN 110 MM FIXING (DL)		AC		DC	AC	DC		AC	DC		cURus	CCC
				IEC	UL									
30	PSR030DS0040	PSR030DL0040	40	690	700	600	200 kA	150 kA	76	280	260	13	•	•
	PSR030DS0050	PSR030DL0050	50	690	700	600	200 kA	150 kA	110	598	384	16	•	•
	PSR030DS0063	PSR030DL0063	63	690	700	600	200 kA	150 kA	176	1023	640	20	•	•
	PSR030DS0080	PSR030DL0080	80	690	700	600	200 kA	150 kA	304	1728	1252	24	•	•
	PSR030DS0100	PSR030DL0100	100	690	700	600	200 kA	150 kA	437	2835	1575	28	•	•
	PSR030DS0125	PSR030DL0125	125	690	700	600	200 kA	150 kA	707	4684	2783	37	•	•
	PSR030DS0160	PSR030DL0160	160	690	700	600	200 kA	150 kA	1359	9114	5507	40	•	•
	PSR030DS0200	PSR030DL0200	200	690	700	600	200 kA	150 kA	3012	15169	14700	40	•	•
	PSR030DS0250	PSR030DL0250	250	690	700	600	200 kA	150 kA	4668	29952	20833	52	•	•
	PSR030DS0315	PSR030DL0315	315	690	700	600	200 kA	150 kA	7131	61830	31600	64	•	•
	PSR030DS0350	PSR030DL0350	350	690	700	600	200 kA	150 kA	12007	85320	49273	66	•	•
	PSR030DS0400	PSR030DL0400	400	690	700	600	200 kA	150 kA	16209	114750	63367	78	•	•
	PSR030DS0450	PSR030DL0450	450	690	700	600	200 kA	150 kA	23133	160110	93533	80	•	•
PSR030DS0500	PSR030DL0500	500	690	700	600	200 kA	150 kA	31429	225180	137333	84	•	•	
PSR030DS0550	PSR030DL0550	550	690	700	600	200 kA	150 kA	44323	268920	145400	85	•	•	
31	PSR031DS0200	PSR031DL0200	200	690	700	600	200 kA	150 kA	1965	17334	16188	49	•	•
	PSR031DS0250	PSR031DL0250	250	690	700	600	200 kA	150 kA	3789	35343	21080	52	•	•
	PSR031DS0315	PSR031DL0315	315	690	700	600	200 kA	150 kA	6862	59130	30694	63	•	•
	PSR031DS0350	PSR031DL0350	350	690	700	600	200 kA	150 kA	9523	76140	40996	67	•	•
	PSR031DS0400	PSR031DL0400	400	690	700	600	200 kA	150 kA	14770	124335	64359	70	•	•
	PSR031DS0450	PSR031DL0450	450	690	700	600	200 kA	150 kA	22457	178200	97444	70	•	•
	PSR031DS0500	PSR031DL0500	500	690	700	600	200 kA	150 kA	29751	251505	125935	74	•	•
	PSR031DS0550	PSR031DL0550	550	690	700	600	200 kA	150 kA	42056	289170	171845	86	•	•
	PSR031DS0630	PSR031DL0630	630	690	700	600	200 kA	150 kA	73513	507465	276315	87	•	•
	PSR031DS0700	PSR031DL0700	700	690	700	600	200 kA	150 kA	98187	601425	337260	93	•	•
PSR031DS0800	PSR031DL0800	800	690	700	600	200 kA	150 kA	137208	848880	502815	107	•	•	
32	PSR032DS0400	PSR032DL0400	400	690	700	600	200 kA	150 kA	11104	79650	44533	87	•	•
	PSR032DS0450	PSR032DL0450	450	690	700	600	200 kA	150 kA	15535	116100	65463	88	•	•
	PSR032DS0500	PSR032DL0500	500	690	700	600	200 kA	150 kA	21573	161460	88277	94	•	•
	PSR032DS0550	PSR032DL0550	550	690	700	600	200 kA	150 kA	26327	177660	107960	106	•	•
	PSR032DS0630	PSR032DL0630	630	690	700	600	200 kA	150 kA	34790	234900	156963	114	•	•
	PSR032DS0700	PSR032DL0700	700	690	700	600	200 kA	150 kA	51191	291870	209287	127	•	•
	PSR032DS0800	PSR032DL0800	800	690	700	600	200 kA	150 kA	60125	472770	249000	152	•	•
	PSR032DS0900	PSR032DL0900	900	690	700	600	200 kA	150 kA	107785	764100	404000	145	•	•
	PSR032DS1000	PSR032DL1000	1000	690	700	600	200 kA	150 kA	190102	933120	672333	149	•	•
PSR032DS1100	PSR032DL1100	1100	690	700	600	200 kA	150 kA	225379	1247400	744000	161	•	•	
33	PSR033DS0450	PSR033DL0450	450	690	700	600	200 kA	150 kA	13600	106380	58947	107	•	•
	PSR033DS0500	PSR033DL0500	500	690	700	600	200 kA	150 kA	16434	140400	77846	107	•	•
	PSR033DS0550	PSR033DL0550	550	690	700	600	200 kA	150 kA	23314	187650	100461	111	•	•
	PSR033DS0630	PSR033DL0630	630	690	700	600	200 kA	150 kA	38727	285930	142437	120	•	•
	PSR033DS0700	PSR033DL0700	700	690	700	600	200 kA	150 kA	56763	392580	209863	116	•	•
	PSR033DS0800	PSR033DL0800	800	690	700	600	200 kA	150 kA	84691	575505	348500	122	•	•
	PSR033DS0900	PSR033DL0900	900	690	700	600	200 kA	150 kA	122619	740340	451177	138	•	•
	PSR033DS1000	PSR033DL1000	1000	690	700	600	200 kA	150 kA	222350	1170450	787750	138	•	•
	PSR033DS1100	PSR033DL1100	1100	690	700	600	200 kA	150 kA	310824	1568700	821400	138	•	•
	PSR033DS1250	PSR033DL1250	1250	690	700	500	200 kA	150 kA	476902	2403000	1674333	145	•	•
	PSR033DS1400	PSR033DL1400	1400	690	700	500	200 kA	150 kA	583552	2920050	1979750	173	•	•
	PSR033DS1500	PSR033DL1500	1500	600	650	500	200 kA	150 kA	674538	2433200	1996733	182	•	•
	PSR033DS1600	PSR033DL1600	1600	600	650	500	200 kA	150 kA	779948	2942800	2301633	208	•	•
	PSR033DS1800	PSR033DL1800	1800	600	650	500	200 kA	150 kA	952196	3785040	2724180	260	•	•
	PSR033DS2000	PSR033DL2000	2000	550	600	480	200 kA	150 kA	1234315	4131600	3755180	264	•	•

POWR-SPEED® Fuses

PSR SERIES HIGH-SPEED SQUARE BODY DIN BLADE

Electrical Characteristics (cont.)

CASE SIZE	CATALOG NUMBER	AMPERAGE RATING (A)	VOLTAGE RATING (V)			INTERRUPTING RATING		MELTING (PRE-ARC) I²T (A²S)	TOTAL CLEARING I²T (A²S) AT RATED VOLTAGE		WATT LOSS AT 100 % RATED CURRENT (W)	AGENCY CERTIFICATION	
	DIN 110 MM FIXING (DL)		AC		DC	AC	DC		AC	DC		cURus	CCC
			IEC	UL									
70	PSR070DL0050	50	1250	1300	1000	100 kA	150 kA	177	2050	400	21	•	•
	PSR070DL0063	63	1250	1300	1000	100 kA	150 kA	273	3399	900	24	•	•
	PSR070DL0080	80	1250	1300	1000	100 kA	150 kA	583	6732	2200	25	•	•
	PSR070DL0100	100	1250	1300	1000	100 kA	150 kA	974	10996	3750	30	•	•
	PSR070DL0125	125	1250	1300	1000	100 kA	150 kA	1352	13011	5150	44	•	•
	PSR070DL0160	160	1250	1300	1000	100 kA	150 kA	2377	25662	8950	53	•	•
	PSR070DL0200	200	1250	1300	1000	100 kA	150 kA	4177	39087	17267	62	•	•
	PSR070DL0250	250	1250	1300	1000	100 kA	150 kA	8629	89790	36750	73	•	•
71	PSR070DL0280	280	1250	1300	1000	100 kA	150 kA	11844	113201	46750	77	•	•
	PSR070DL0315	315	1250	1300	1000	100 kA	150 kA	18162	142051	66833	80	•	•
	PSR071DL0160	160	1250	1300	1000	100 kA	150 kA	2756	24600	8800	45	•	•
	PSR071DL0200	200	1250	1300	1000	100 kA	150 kA	4918	50307	19050	52	•	•
	PSR071DL0250	250	1250	1300	1000	100 kA	150 kA	10592	104427	43100	55	•	•
	PSR071DL0280	280	1250	1300	1000	100 kA	150 kA	13763	131897	54150	58	•	•
	PSR071DL0315	315	1250	1300	1000	100 kA	150 kA	20882	200244	67450	59	•	•
	PSR071DL0350	350	1250	1300	1000	100 kA	150 kA	23301	225500	102500	70	•	•
72	PSR071DL0400	400	1250	1300	1000	100 kA	150 kA	43211	374986	185000	76	•	•
	PSR071DL0450	450	1250	1300	1000	100 kA	150 kA	55915	452394	241333	88	•	•
	PSR072DL0250	250	1250	1300	1000	100 kA	150 kA	7737	72789	28567	64	•	•
	PSR072DL0280	280	1250	1300	1000	100 kA	150 kA	10915	124538	46897	62	•	•
	PSR072DL0315	315	1250	1300	1000	100 kA	150 kA	16187	145140	58867	69	•	•
	PSR072DL0350	350	1250	1300	1000	100 kA	150 kA	18727	160447	69633	81	•	•
	PSR072DL0400	400	1250	1300	1000	100 kA	150 kA	27112	243540	108000	93	•	•
	PSR072DL0450	450	1250	1300	1000	100 kA	150 kA	35927	406413	159133	107	•	•
73	PSR072DL0500	500	1250	1300	1000	100 kA	150 kA	50398	425375	216333	115	•	•
	PSR072DL0550	550	1250	1300	1000	100 kA	150 kA	73858	539833	271333	115	•	•
	PSR072DL0630	630	1250	1300	1000	100 kA	150 kA	126126	942180	436000	119	•	•
	PSR073DL0315	315	1250	1300	1000	100 kA	150 kA	10245	106600	38650	100	•	•
	PSR073DL0350	350	1250	1300	1000	100 kA	150 kA	13586	159627	57467	100	•	•
	PSR073DL0400	400	1250	1300	1000	100 kA	150 kA	19797	211273	86800	124	•	•
	PSR073DL0450	450	1250	1300	1000	100 kA	150 kA	29834	279073	114333	122	•	•
	PSR073DL0500	500	1250	1300	1000	100 kA	150 kA	42751	416437	184500	121	•	•
	PSR073DL0550	550	1250	1300	1000	100 kA	150 kA	55513	491713	224500	130	•	•
	PSR073DL0630	630	1250	1300	1000	100 kA	150 kA	94649	804338	377500	136	•	•
	PSR073DL0700	700	1250	1300	1000	100 kA	150 kA	158097	1170960	575667	135	•	•

POWR-SPEED® Fuses

PSR SERIES HIGH-SPEED SQUARE BODY DIN BLADE

Ordering Information

CASE SIZE	DIN 80 MM FIXING (DS)			DIN 110 MM FIXING (DL)			BOX QUANTITY
	CATALOG NUMBER	ORDERING PART NUMBER	UPC	CATALOG NUMBER	ORDERING PART NUMBER	UPC	
30	PSR030DS0040	PSR030DS0040Z	07945824985	PSR030DL0040	PSR030DL0040Z	07945825049	3 pcs/box
	PSR030DS0050	PSR030DS0050Z	07945824986	PSR030DL0050	PSR030DL0050Z	07945825050	3 pcs/box
	PSR030DS0063	PSR030DS0063Z	07945824987	PSR030DL0063	PSR030DL0063Z	07945825051	3 pcs/box
	PSR030DS0080	PSR030DS0080Z	07945824988	PSR030DL0080	PSR030DL0080Z	07945825052	3 pcs/box
	PSR030DS0100	PSR030DS0100Z	07945824989	PSR030DL0100	PSR030DL0100Z	07945825054	3 pcs/box
	PSR030DS0125	PSR030DS0125Z	07945824990	PSR030DL0125	PSR030DL0125Z	07945825056	3 pcs/box
	PSR030DS0160	PSR030DS0160Z	07945824991	PSR030DL0160	PSR030DL0160Z	07945825057	3 pcs/box
	PSR030DS0200	PSR030DS0200Z	07945824992	PSR030DL0200	PSR030DL0200Z	07945825059	3 pcs/box
	PSR030DS0250	PSR030DS0250Z	07945824993	PSR030DL0250	PSR030DL0250Z	07945825060	3 pcs/box
	PSR030DS0315	PSR030DS0315Z	07945824994	PSR030DL0315	PSR030DL0315Z	07945825062	3 pcs/box
	PSR030DS0350	PSR030DS0350Z	07945824995	PSR030DL0350	PSR030DL0350Z	07945825066	3 pcs/box
	PSR030DS0400	PSR030DS0400Z	07945824996	PSR030DL0400	PSR030DL0400Z	07945825069	3 pcs/box
	PSR030DS0450	PSR030DS0450Z	07945824997	PSR030DL0450	PSR030DL0450Z	07945825070	3 pcs/box
31	PSR030DS0500	PSR030DS0500Z	07945824998	PSR030DL0500	PSR030DL0500Z	07945825074	3 pcs/box
	PSR030DS0550	PSR030DS0550Z	07945824999	PSR030DL0550	PSR030DL0550Z	07945825075	3 pcs/box
	PSR031DS0200	PSR031DS0200Z	07945825000	PSR031DL0200	PSR031DL0200Z	07945825076	3 pcs/box
	PSR031DS0250	PSR031DS0250Z	07945825001	PSR031DL0250	PSR031DL0250Z	07945825077	3 pcs/box
	PSR031DS0315	PSR031DS0315Z	07945825002	PSR031DL0315	PSR031DL0315Z	07945825078	3 pcs/box
	PSR031DS0350	PSR031DS0350Z	07945825003	PSR031DL0350	PSR031DL0350Z	07945825079	3 pcs/box
	PSR031DS0400	PSR031DS0400Z	07945825004	PSR031DL0400	PSR031DL0400Z	07945825080	3 pcs/box
	PSR031DS0450	PSR031DS0450Z	07945825005	PSR031DL0450	PSR031DL0450Z	07945825081	3 pcs/box
	PSR031DS0500	PSR031DS0500Z	07945825006	PSR031DL0500	PSR031DL0500Z	07945825082	3 pcs/box
	PSR031DS0550	PSR031DS0550Z	07945825007	PSR031DL0550	PSR031DL0550Z	07945825083	3 pcs/box
32	PSR031DS0630	PSR031DS0630Z	07945825008	PSR031DL0630	PSR031DL0630Z	07945825084	3 pcs/box
	PSR031DS0700	PSR031DS0700Z	07945825009	PSR031DL0700	PSR031DL0700Z	07945825085	3 pcs/box
	PSR031DS0800	PSR031DS0800Z	07945825010	PSR031DL0800	PSR031DL0800Z	07945825086	3 pcs/box
	PSR032DS0400	PSR032DS0400X	07945825013	PSR032DL0400	PSR032DL0400X	07945825087	1 pcs/box
	PSR032DS0450	PSR032DS0450X	07945825014	PSR032DL0450	PSR032DL0450X	07945825088	1 pcs/box
	PSR032DS0500	PSR032DS0500X	07945825015	PSR032DL0500	PSR032DL0500X	07945825089	1 pcs/box
	PSR032DS0550	PSR032DS0550X	07945825016	PSR032DL0550	PSR032DL0550X	07945825090	1 pcs/box
	PSR032DS0630	PSR032DS0630X	07945825017	PSR032DL0630	PSR032DL0630X	07945825091	1 pcs/box
33	PSR032DS0700	PSR032DS0700X	07945825021	PSR032DL0700	PSR032DL0700X	07945825092	1 pcs/box
	PSR032DS0800	PSR032DS0800X	07945825022	PSR032DL0800	PSR032DL0800X	07945825141	1 pcs/box
	PSR032DS0900	PSR032DS0900X	07945825023	PSR032DL0900	PSR032DL0900X	07945825142	1 pcs/box
	PSR032DS1000	PSR032DS1000X	07945825025	PSR032DL1000	PSR032DL1000X	07945825143	1 pcs/box
	PSR032DS1100	PSR032DS1100X	07945825026	PSR032DL1100	PSR032DL1100X	07945825144	1 pcs/box
	PSR033DS0450	PSR033DS0450X	07945825027	PSR033DL0450	PSR033DL0450X	07945825145	1 pcs/box
	PSR033DS0500	PSR033DS0500X	07945825028	PSR033DL0500	PSR033DL0500X	07945825146	1 pcs/box
	PSR033DS0550	PSR033DS0550X	07945825030	PSR033DL0550	PSR033DL0550X	07945825147	1 pcs/box
	PSR033DS0630	PSR033DS0630X	07945825032	PSR033DL0630	PSR033DL0630X	07945825148	1 pcs/box
	PSR033DS0700	PSR033DS0700X	07945825033	PSR033DL0700	PSR033DL0700X	07945825149	1 pcs/box
33	PSR033DS0800	PSR033DS0800X	07945825034	PSR033DL0800	PSR033DL0800X	07945825150	1 pcs/box
	PSR033DS0900	PSR033DS0900X	07945825035	PSR033DL0900	PSR033DL0900X	07945825151	1 pcs/box
	PSR033DS1000	PSR033DS1000X	07945825036	PSR033DL1000	PSR033DL1000X	07945825152	1 pcs/box
	PSR033DS1100	PSR033DS1100X	07945825038	PSR033DL1100	PSR033DL1100X	07945825153	1 pcs/box
	PSR033DS1250	PSR033DS1250X	07945825039	PSR033DL1250	PSR033DL1250X	07945825154	1 pcs/box
	PSR033DS1400	PSR033DS1400X	07945825040	PSR033DL1400	PSR033DL1400X	07945825155	1 pcs/box
	PSR033DS1500	PSR033DS1500X	07945825042	PSR033DL1500	PSR033DL1500X	07945825156	1 pcs/box
	PSR033DS1600	PSR033DS1600X	07945825044	PSR033DL1600	PSR033DL1600X	07945825157	1 pcs/box
	PSR033DS1800	PSR033DS1800X	07945825045	PSR033DL1800	PSR033DL1800X	07945825158	1 pcs/box
	PSR033DS2000	PSR033DS2000X	07945825046	PSR033DL2000	PSR033DL2000X	07945825159	1 pcs/box

POWR-SPEED® Fuses

PSR SERIES HIGH-SPEED SQUARE BODY DIN BLADE

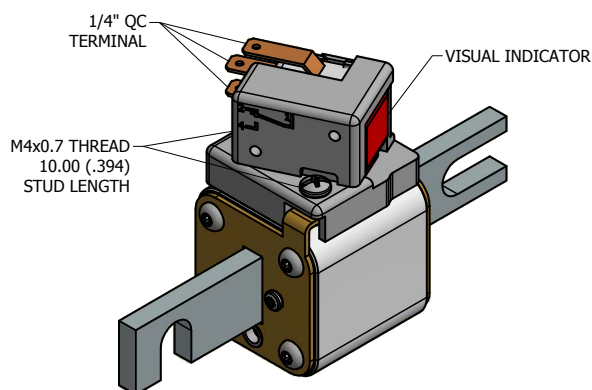
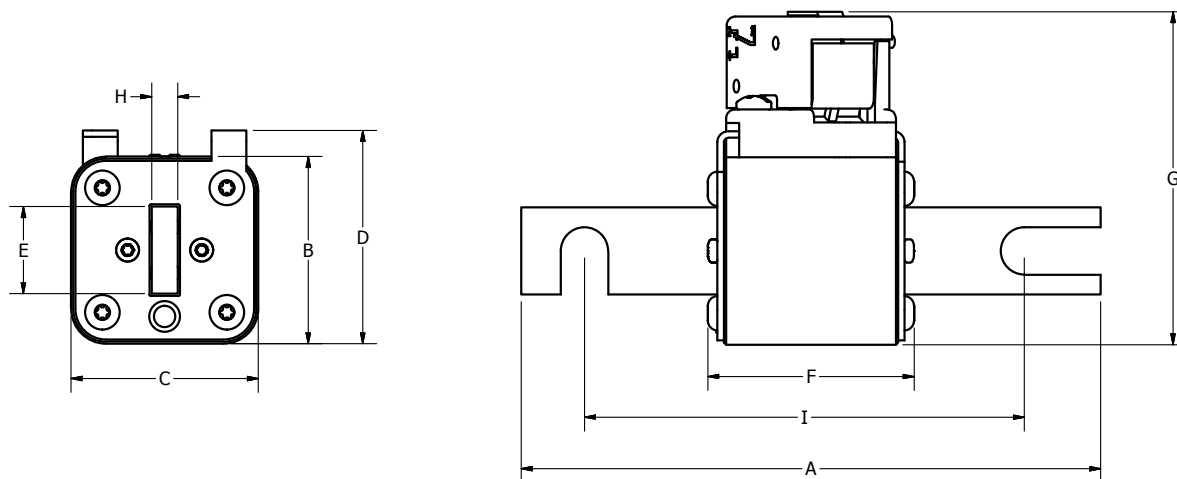
Ordering Information (cont.)

CASE SIZE	DIN 110 MM FIXING (DL)			BOX QUANTITY
	CATALOG NUMBER	ORDERING PART NUMBER	UPC	
70	PSR070DL0050	PSR070DL0050Z	07945825160	3 pcs/box
	PSR070DL0063	PSR070DL0063Z	07945825161	3 pcs/box
	PSR070DL0080	PSR070DL0080Z	07945825162	3 pcs/box
	PSR070DL0100	PSR070DL0100Z	07945825163	3 pcs/box
	PSR070DL0125	PSR070DL0125Z	07945825164	3 pcs/box
	PSR070DL0160	PSR070DL0160Z	07945825165	3 pcs/box
	PSR070DL0200	PSR070DL0200Z	07945825166	3 pcs/box
	PSR070DL0250	PSR070DL0250Z	07945825167	3 pcs/box
	PSR070DL0280	PSR070DL0280Z	07945825168	3 pcs/box
71	PSR070DL0315	PSR070DL0315Z	07945825169	3 pcs/box
	PSR071DL0160	PSR071DL0160Z	07945825170	3 pcs/box
	PSR071DL0200	PSR071DL0200Z	07945825171	3 pcs/box
	PSR071DL0250	PSR071DL0250Z	07945825172	3 pcs/box
	PSR071DL0280	PSR071DL0280Z	07945825173	3 pcs/box
	PSR071DL0315	PSR071DL0315Z	07945825174	3 pcs/box
	PSR071DL0350	PSR071DL0350Z	07945825175	3 pcs/box
	PSR071DL0400	PSR071DL0400Z	07945825176	3 pcs/box
	PSR071DL0450	PSR071DL0450Z	07945825177	3 pcs/box
72	PSR072DL0250	PSR072DL0250X	07945825178	1 pcs/box
	PSR072DL0280	PSR072DL0280X	07945825179	1 pcs/box
	PSR072DL0315	PSR072DL0315X	07945825180	1 pcs/box
	PSR072DL0350	PSR072DL0350X	07945825181	1 pcs/box
	PSR072DL0400	PSR072DL0400X	07945825182	1 pcs/box
	PSR072DL0450	PSR072DL0450X	07945825183	1 pcs/box
	PSR072DL0500	PSR072DL0500X	07945825184	1 pcs/box
	PSR072DL0550	PSR072DL0550X	07945825185	1 pcs/box
	PSR072DL0630	PSR072DL0630X	07945825186	1 pcs/box
73	PSR073DL0315	PSR073DL0315X	07945825187	1 pcs/box
	PSR073DL0350	PSR073DL0350X	07945825188	1 pcs/box
	PSR073DL0400	PSR073DL0400X	07945825189	1 pcs/box
	PSR073DL0450	PSR073DL0450X	07945825190	1 pcs/box
	PSR073DL0500	PSR073DL0500X	07945825191	1 pcs/box
	PSR073DL0550	PSR073DL0550X	07945825192	1 pcs/box
	PSR073DL0630	PSR073DL0630X	07945825193	1 pcs/box
	PSR073DL0700	PSR073DL0700X	07945825194	1 pcs/box

POWR-SPEED® Fuses

PSR SERIES HIGH-SPEED SQUARE BODY DIN BLADE

Dimensions (DS and DL)



DIMENSIONS MM (IN)											
CASE SIZE	MOUNTING STYLE	A	B	C	D	E	F	G	H	I	RECOMMENDED FASTENER
30	DIN 80 [DS]	109.0 (4.29)	43.0 (1.69)	43.0 (1.69)	49.0 (1.93)	20.0 (0.79)	47.4 (1.86)	76.4 (3.01)	6.0 (0.24)	80.0 (3.15)	10 mm (3/8)
	DIN 110 [DL]	133.0 (5.24)	43.0 (1.69)	43.0 (1.69)	49.0 (1.93)	20.0 (0.79)	47.4 (1.86)	76.4 (3.01)	6.0 (0.24)	110.0 (4.33)	10 mm (3/8)
31	DIN 80 [DS]	109.0 (4.29)	51.5 (2.03)	51.5 (2.03)	57.5 (2.26)	25.0 (0.98)	48.2 (1.90)	84.9 (3.34)	6.0 (0.24)	80.0 (3.15)	10 mm (3/8)
	DIN 110 [DL]	133.0 (5.24)	51.5 (2.03)	51.5 (2.03)	57.5 (2.26)	25.0 (0.98)	48.2 (1.90)	84.9 (3.34)	6.0 (0.24)	110.0 (4.33)	10 mm (3/8)
32	DIN 80 [DS]	109.0 (4.29)	60.0 (2.36)	60.0 (2.36)	66.0 (2.60)	25.0 (0.98)	48.2 (1.90)	93.4 (3.68)	6.0 (0.24)	80.0 (3.15)	10 mm (3/8)
	DIN 110 [DL]	133.0 (5.24)	60.0 (2.36)	60.0 (2.36)	66.0 (2.60)	25.0 (0.98)	48.2 (1.90)	93.4 (3.68)	6.0 (0.24)	110.0 (4.33)	10 mm (3/8)
33	DIN 80 [DS]	109.0 (4.29)	73.5 (2.89)	73.5 (2.89)	79.5 (3.13)	36.0 (1.41)	49.2 (1.94)	106.9 (4.21)	6.0 (0.24)	80.0 (3.15)	10 mm (3/8)
	DIN 110 [DL]	133.0 (5.24)	73.5 (2.89)	73.5 (2.89)	79.5 (3.13)	36.0 (1.41)	49.2 (1.94)	106.9 (4.21)	6.0 (0.24)	110.0 (4.33)	10 mm (3/8)
70	DIN 110 [DL]	133.0 (5.24)	43.0 (1.69)	43.0 (1.69)	49.0 (1.93)	20.0 (0.79)	71.4 (2.81)	76.4 (3.01)	6.0 (0.24)	110.0 (4.33)	10 mm (3/8)
71	DIN 110 [DL]	133.0 (5.24)	51.5 (2.03)	51.5 (2.03)	57.5 (2.26)	25.0 (0.98)	72.2 (2.84)	84.9 (3.34)	6.0 (0.24)	110.0 (4.33)	10 mm (3/8)
72	DIN 110 [DL]	133.0 (5.24)	60.0 (2.36)	60.0 (2.36)	66.0 (2.60)	25.0 (0.98)	72.2 (2.84)	93.4 (3.68)	6.0 (0.24)	110.0 (4.33)	10 mm (3/8)
73	DIN 110 [DL]	133.0 (5.24)	73.5 (2.89)	73.5 (2.89)	79.5 (3.13)	36.0 (1.41)	73.2 (2.88)	106.9 (4.21)	6.0 (0.24)	110.0 (4.33)	10 mm (3/8)

POWR-SPEED® Fuses

L75QS SERIES HIGH-SPEED ROUND BODY

750 V dc • Very Fast Acting • 35–800 A



Description

The L75QS series is a next generation high-speed fuse for the protection of power semiconductor devices and is designed in the traditional round body bolted style package.

L75QS series high-speed fuses rated at 750 V dc are extremely current limiting and are used to protect power converters, drives and control circuit applications. Designed with lower I^2t performance characteristics, these fuses provide balanced performance to extend longevity while lowering potentially damaging heat energy to the devices being protected.

In addition L75QS series fuses have been designed with a universal mounting option to meet customer requirements for installation into a variety of application configurations.

Littelfuse POWR-SPEED products offer optimized circuit protection at the extremely fast speed required to protect modern day, sensitive, high-power semiconductor devices.

Features

- Compliance with US and Canadian requirements
- Traditional North American bolted style dimensions
- 750 V dc performance
- Direct bus-bar mount or stud mount design
- Halogen free, RoHS and REACH Compliant

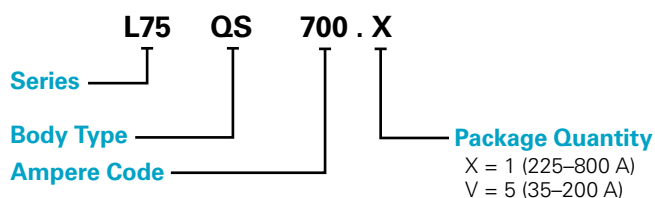
Applications

- Power converters (inverters, rectifiers)
- Power supplies, UPS
- EV charging stations
- Variable speed drives
- Dc common bus

Specifications

Voltage Rating	Dc: 750 V
Amperage Rating	35–800 A
Interrupting Rating	Dc: 50 kA
Time Constant	10 ms
Material	Body: melamine Caps: copper alloy
Approvals	UL Recognized (E71611) cURus (E71611)
Environmental	RoHS Compliant, REACH
Country of Origin	Mexico
Operating Temperature	-55 °C to +125 °C
Storage Temperature	Up to 35 °C with relative humidity <65 %

Part Numbering System



SERIES	BODY TYPE	AMPERE CODE	PACKAGE QUANTITY	CATALOG NUMBER	ORDERING NUMBER
L75	QS	700	1	L75QS700	L75QS700.X

Recommended Fuse Blocks

LSCR101 (35–100 A)
LSCR102 (125–800 A)
LSCR103 (450–800 A)



Web Resources

Download technical documents: Littelfuse.com/L75QS

Note: high-speed fuses are designed for fixed installations. They are not intended for use in moving vehicle applications.

POWR-SPEED® Fuses

L75QS SERIES HIGH-SPEED ROUND BODY

Electrical Specifications

CATALOG NUMBER	AMPERAGE RATING	VOLTAGE RATING	INTERRUPT RATING	MELTING (PRE-ARC) I ² T (A ² s)	TOTAL CLEARING I ² T (A ² s)	WATTS LOSS AT 80 % RATED CURRENT	WATTS LOSS AT 100 % RATED CURRENT
		DC	DC		50 KA @ 750 V DC	(W)	(W)
L75QS035	35	750	50 kA	129	406	5	8
L75QS040	40	750	50 kA	153	549	6	9
L75QS050	50	750	50 kA	196	776	6	12
L75QS060	60	750	50 kA	269	895	9	15
L75QS070	70	750	50 kA	359	1,399	10	20
L75QS080	80	750	50 kA	452	1,841	12	22
L75QS090	90	750	50 kA	625	2,498	13	25
L75QS100	100	750	50 kA	966	3,053	15	30
L75QS125	125	750	50 kA	2,208	7,069	13	24
L75QS150	150	750	50 kA	3,026	10,401	17	32
L75QS175	175	750	50 kA	4,216	14,786	20	38
L75QS200	200	750	50 kA	5,529	20,433	22	42
L75QS225	225	750	50 kA	9,226	27,520	22	40
L75QS250	250	750	50 kA	10,999	34,291	27	46
L75QS300	300	750	50 kA	16,296	49,297	31	57
L75QS350	350	750	50 kA	24,778	70,696	35	67
L75QS400	400	750	50 kA	34,225	102,567	41	79
L75QS450	450	750	50 kA	38,946	119,606	45	81
L75QS500	500	750	50 kA	42,747	132,252	56	112
L75QS600	600	750	50 kA	67,363	189,333	67	138
L75QS700	700	750	50 kA	99,387	302,425	72	138
L75QS800	800	750	50 kA	156,137	421,500	76	142

Ordering Information

SERIES	AMPERAGE RATING	AMPERE CODE	CATALOG NUMBER	ORDERING NUMBER	PACK QUANTITY	UPC
L75QS	35	035	L75QS035	L75QS035.V	5 Pcs/ Box	07945823571
L75QS	40	040	L75QS040	L75QS040.V	5 Pcs/ Box	07945823572
L75QS	50	050	L75QS050	L75QS050.V	5 Pcs/ Box	07945823573
L75QS	60	060	L75QS060	L75QS060.V	5 Pcs/ Box	07945823574
L75QS	70	070	L75QS070	L75QS070.V	5 Pcs/ Box	07945823575
L75QS	80	080	L75QS080	L75QS080.V	5 Pcs/ Box	07945823576
L75QS	90	090	L75QS090	L75QS090.V	5 Pcs/ Box	07945823577
L75QS	100	100	L75QS100	L75QS100.V	5 Pcs/ Box	07945823578
L75QS	125	125	L75QS125	L75QS125.V	5 Pcs/ Box	07945823579
L75QS	150	150	L75QS150	L75QS150.V	5 Pcs/ Box	07945823580
L75QS	175	175	L75QS175	L75QS175.V	5 Pcs/ Box	07945823581
L75QS	200	200	L75QS200	L75QS200.V	5 Pcs/ Box	07945823582
L75QS	225	225	L75QS225	L75QS225.X	1 Pc/ Box	07945823583
L75QS	250	250	L75QS250	L75QS250.X	1 Pc/ Box	07945823584
L75QS	300	300	L75QS300	L75QS300.X	1 Pc/ Box	07945823585
L75QS	350	350	L75QS350	L75QS350.X	1 Pc/ Box	07945823586
L75QS	400	400	L75QS400	L75QS400.X	1 Pc/ Box	07945823587
L75QS	450	450	L75QS450	L75QS450.X	1 Pc/ Box	07945823588
L75QS	500	500	L75QS500	L75QS500.X	1 Pc/ Box	07945823589
L75QS	600	600	L75QS600	L75QS600.X	1 Pc/ Box	07945823590
L75QS	700	700	L75QS700	L75QS700.X	1 Pc/ Box	07945823591
L75QS	800	800	L75QS800	L75QS800.X	1 Pc/ Box	07945823592

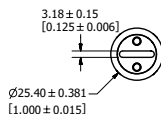
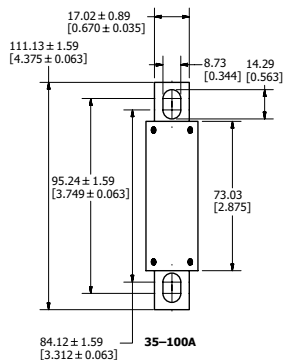
POWR-SPEED® Fuses

L75QS SERIES HIGH-SPEED ROUND BODY

Dimensions

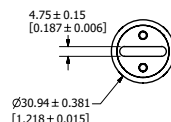
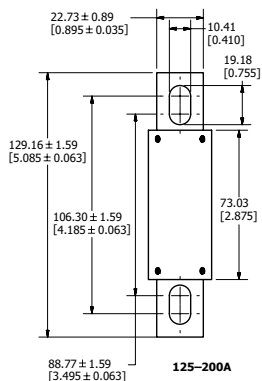
Millimeters [inches]

Document Number: OL-L75QS000



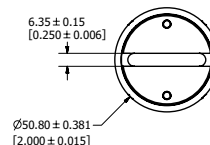
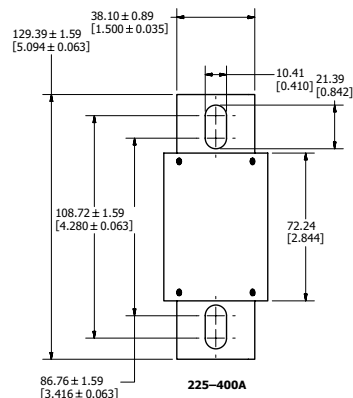
Stud Size: M8 (5/16")

Recommended Torque: 15 Nm (132.76 in-lb)



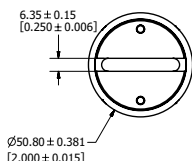
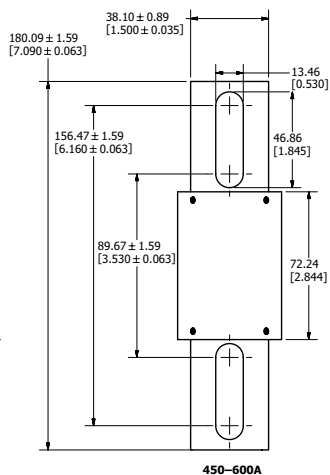
Stud Size: M8 (5/16")

Recommended Torque: 15 Nm (132.76 in-lb)



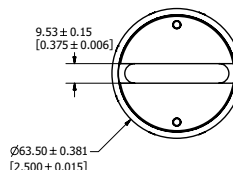
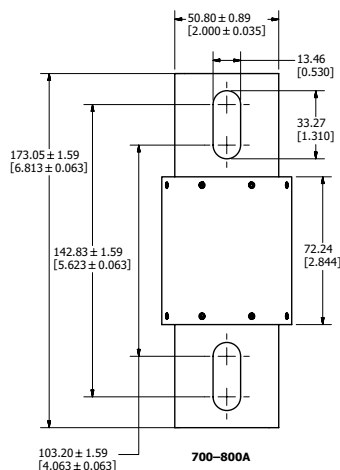
Stud Size: M8 (5/16")

Recommended Torque: 15 Nm (132.76 in-lb)



Stud Size: M12 (1/2")

Recommended Torque: 54 Nm (477.94 in-lb)



Stud Size: M12 (1/2")

Recommended Torque: 54 Nm (477.94 in-lb)

POWR-SPEED® Fuses

L70QS SERIES HIGH-SPEED ROUND BODY

700 V ac/dc • Very Fast Acting • 35–800 A



Description

The L70QS series is a next generation high-speed fuse for the protection of power semiconductor devices and is designed in the traditional North American bolted style package.

L70QS series high-speed fuses are extremely current limiting and are used to protect power converters, drives and control circuit applications. Designed with lower I^2t performance characteristics, these fuses provide balanced performance to extend longevity while lowering potentially damaging heat energy to the devices being protected.

In addition L70QS series fuses have been designed with a universal mounting option to meet customer requirements for installation into a variety of application configurations

Littelfuse POWR-SPEED products offer optimized circuit protection at the extremely fast speed required to protect modern day, sensitive, high-power semiconductor devices. Such products are commonly found in various industries including pulp and paper industries, cranes and heavy-lifting equipment, processing industries, wastewater treatment plants and large factories and MRO facilities.

Features

- Compliance with US and Canadian requirements
- Traditional North American bolted style dimensions
- Class aR performance
- Direct bus-bar mount or stud mount design
- Halogen free, RoHS and REACH Compliant

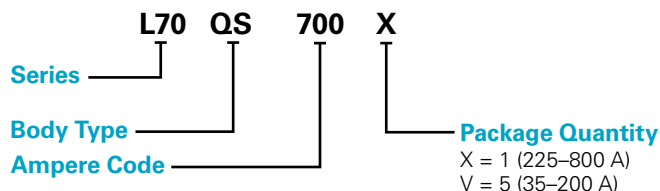
Applications

- Power converters (inverters, rectifiers)
- Power supplies
- UPS
- Variable speed drives
- Control circuits
- Soft starters

Specifications

Voltage Rating	Ac: 700 V Dc: 700 V
Amperage Rating	35–800 A
Interrupting Rating	Ac: 200 kA Dc: 50 kA
Time Constant	10 ms
Material	Body: melamine Caps: copper alloy (silver plated)
Approvals	UL Recognized (E71611) cURus (E71611)
Environmental	RoHS Compliant, REACH
Country of Origin	Mexico
Operating Temperature	-55 °C to +125 °C
Storage Temperature	Up to 35 °C with relative humidity <65 %

Part Numbering System



SERIES	BODY TYPE	AMPERE CODE	PACKAGE QUANTITY	CATALOG NUMBER	ORDERING NUMBER
L70	QS	700	1	L70QS700	L70QS700.X

Recommended Fuse Blocks

LSCR001 (35–100 A)
LSCR002 (125–800 A)



Web Resources

Download technical documents: Littelfuse.com/L70QS

Note: high-speed fuses are designed for fixed installations. They are not intended for use in moving vehicle applications.

POWR-SPEED® Fuses

L70QS SERIES HIGH-SPEED ROUND BODY

Electrical Specifications

CATALOG NUMBER	AMPERAGE RATING	VOLTAGE RATING		INTERRUPT RATING		MELTING (PRE-ARC) I ² T (A ² s)	TOTAL CLEARING I ² T (A ² s)	TOTAL CLEARING I ² T (A ² s)	WATTS LOSS AT 80 % RATED CURRENT	WATTS LOSS AT 100 % RATED CURRENT
		AC	DC	AC	DC		200 kA @ 700 V AC	50 kA @ 700 V DC	(W)	(W)
L70QS035	35	700	700	200 kA	50 kA	129	332	308	5	8
L70QS040	40	700	700	200 kA	50 kA	153	599	416	6	9
L70QS050	50	700	700	200 kA	50 kA	196	711	588	6	12
L70QS060	60	700	700	200 kA	50 kA	269	1,233	678	9	15
L70QS070	70	700	700	200 kA	50 kA	359	1,575	1,075	10	20
L70QS080	80	700	700	200 kA	50 kA	452	2,755	1,415	12	22
L70QS090	90	700	700	200 kA	50 kA	625	3,365	1,920	13	25
L70QS100	100	700	700	200 kA	50 kA	966	3,747	2,347	15	30
L70QS125	125	700	700	200 kA	50 kA	2,208	8,795	5,570	13	24
L70QS150	150	700	700	200 kA	50 kA	3,026	13,650	8,195	17	32
L70QS175	175	700	700	200 kA	50 kA	4,219	19,550	11,650	20	38
L70QS200	200	700	700	200 kA	50 kA	5,529	22,067	16,100	22	42
L70QS225	225	700	700	200 kA	50 kA	9,226	34,900	25,400	22	40
L70QS250	250	700	700	200 kA	50 kA	10,999	43,750	31,650	27	46
L70QS300	300	700	700	200 kA	50 kA	16,296	64,400	45,500	31	57
L70QS350	350	700	700	200 kA	50 kA	24,778	91,500	65,250	35	67
L70QS400	400	700	700	200 kA	50 kA	34,225	110,667	94,666	41	79
L70QS450	450	700	700	200 kA	50 kA	38,946	145,500	113,500	45	81
L70QS500	500	700	700	200 kA	50 kA	42,747	173,000	125,500	56	112
L70QS600	600	700	700	200 kA	50 kA	67,363	220,333	179,667	67	138
L70QS700	700	700	700	200 kA	50 kA	99,387	368,000	298,000	72	138
L70QS800	800	700	700	200 kA	50 kA	156,137	466,333	415,333	76	142

Ordering Information

SERIES	AMPERAGE RATING	AMPERE CODE	CATALOG NUMBER	ORDERING NUMBER	PACK QUANTITY	UPC
L70QS	35	035	L70QS035	L70QS035.V	5 Pcs/ Box	07945886015
L70QS	40	040	L70QS040	L70QS040.V	5 Pcs/ Box	07945886016
L70QS	50	050	L70QS050	L70QS050.V	5 Pcs/ Box	07945886017
L70QS	60	060	L70QS060	L70QS060.V	5 Pcs/ Box	07945886018
L70QS	70	070	L70QS070	L70QS070.V	5 Pcs/ Box	07945886019
L70QS	80	080	L70QS080	L70QS080.V	5 Pcs/ Box	07945886020
L70QS	90	090	L70QS090	L70QS090.V	5 Pcs/ Box	07945886021
L70QS	100	100	L70QS100	L70QS100.V	5 Pcs/ Box	07945886022
L70QS	125	125	L70QS125	L70QS125.V	5 Pcs/ Box	07945886023
L70QS	150	150	L70QS150	L70QS150.V	5 Pcs/ Box	07945886024
L70QS	175	175	L70QS175	L70QS175.V	5 Pcs/ Box	07945886025
L70QS	200	200	L70QS200	L70QS200.V	5 Pcs/ Box	07945886026
L70QS	225	225	L70QS225	L70QS225.X	1 Pc/ Box	07945886027
L70QS	250	250	L70QS250	L70QS250.X	1 Pc/ Box	07945886028
L70QS	300	300	L70QS300	L70QS300.X	1 Pc/ Box	07945886029
L70QS	350	350	L70QS350	L70QS350.X	1 Pc/ Box	07945886030
L70QS	400	400	L70QS400	L70QS400.X	1 Pc/ Box	07945886031
L70QS	450	450	L70QS450	L70QS450.X	1 Pc/ Box	07945886032
L70QS	500	500	L70QS500	L70QS500.X	1 Pc/ Box	07945886033
L70QS	600	600	L70QS600	L70QS600.X	1 Pc/ Box	07945886034
L70QS	700	700	L70QS700	L70QS700.X	1 Pc/ Box	07945886035
L70QS	800	800	L70QS800	L70QS800.X	1 Pc/ Box	07945886036

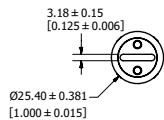
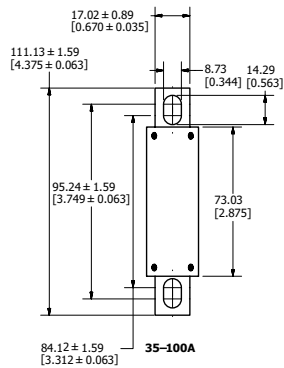
POWR-SPEED® Fuses

L70QS SERIES HIGH-SPEED ROUND BODY

Dimensions

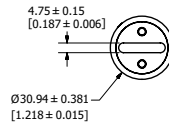
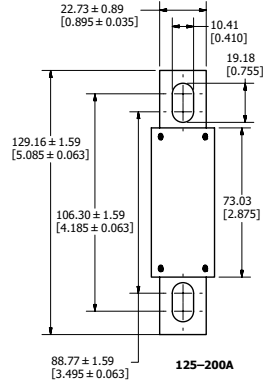
Millimeters [inches]

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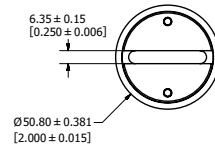
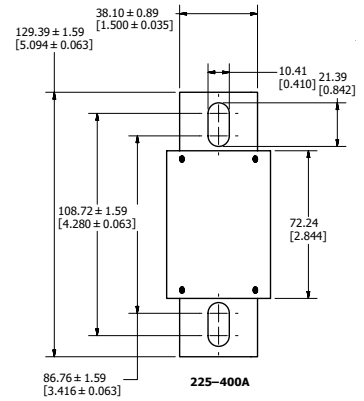
Stud Size: M8 (5/16")

Recommended Torque: 15 Nm (132.76 in-lb)



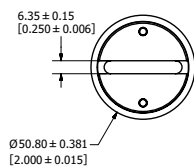
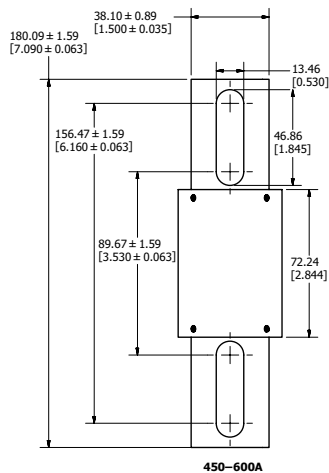
Stud Size: M8 (5/16")

Recommended Torque: 15 Nm (132.76 in-lb)



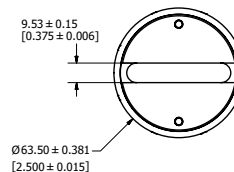
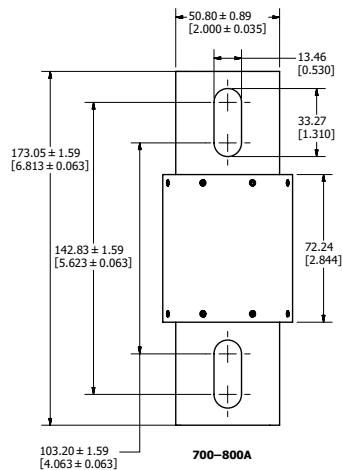
Stud Size: M8 (5/16")

Recommended Torque: 15 Nm (132.76 in-lb)



Stud Size: M12 (1/2")

Recommended Torque: 54 Nm (477.94 in-lb)



Stud Size: M12 (1/2")

Recommended Torque: 54 Nm (477.94 in-lb)

POWR-SPEED® Fuses

L50QS SERIES HIGH-SPEED ROUND BODY

500 V ac/dc • Very Fast Acting • 35–800 A



Description

The L50QS series is a next generation high-speed fuse for the protection of power semiconductor devices and is designed in the traditional North American bolted style package.

L50QS series high-speed fuses are extremely current limiting and are used to protect power converters, drives and control circuit applications. Designed with lower I^2t performance characteristics, these fuses provide balanced performance to extend longevity while lowering potentially damaging heat energy to the devices being protected.

In addition L50QS series fuses have been designed with a universal mounting option to meet customer requirements for installation into a variety of application configurations

Littelfuse POWR-SPEED products offer optimized circuit protection at the extremely fast speed required to protect modern day, sensitive, high-power semiconductor devices. Such products are commonly found in various industries including pulp and paper industries, cranes and heavy-lifting equipment, processing industries, wastewater treatment plants and large factories and MRO facilities.

Features

- Compliance with US and Canadian requirements
- Traditional North American bolted style dimensions
- Class aR performance
- Direct bus-bar mount or stud mount design
- Halogen free, RoHS and REACH Compliant

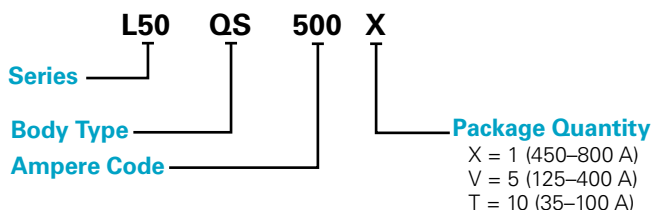
Applications

- Power converters (inverters, rectifiers)
- Power supplies
- UPS
- Variable speed drives
- Control circuits
- Soft starters

Specifications

Voltage Rating	Ac: 500 V Dc: 500 V
Amperage Rating	35–800 A
Interrupting Rating	Ac: 200 kA Dc: 50 kA
Time Constant	10 ms
Material	Body: melamine Caps: copper alloy (silver plated)
Approvals	UL Recognized (E71611) cURus (E71611)
Environmental	RoHS Compliant, REACH
Country of Origin	Mexico
Operating Temperature	-55 °C to +125 °C
Storage Temperature	Up to 35 °C with relative humidity <65 %

Part Numbering System



SERIES	BODY TYPE	AMPERE CODE	PACKAGE QUANTITY	CATALOG NUMBER	ORDERING NUMBER
L50	QS	500	1	L50QS500	L50QS500.X

Recommended Fuse Blocks

LSCR001 (35–200A)
LSCR002 (225–800A)



Web Resources

Download technical documents: Littelfuse.com/L50QS

Note: high-speed fuses are designed for fixed installations. They are not intended for use in moving vehicle applications.

POWR-SPEED® Fuses

L50QS SERIES HIGH-SPEED ROUND BODY

Electrical Specifications

CATALOG NUMBER	AMPERAGE RATING	VOLTAGE RATING		INTERRUPT RATING		MELTING (PRE-ARC) I ² T (A ² s)	TOTAL CLEARING I ² T (A ² s)	TOTAL CLEARING I ² T (A ² s)	WATTS LOSS AT 80 % RATED CURRENT	WATTS LOSS AT 100 % RATED CURRENT
		AC	DC	AC	DC		200 kA @ 500 V AC	50 kA @ 500 V DC	(W)	(W)
L50QS035	35	500	500	200 kA	50 kA	111	430	290	3	5
L50QS040	40	500	500	200 kA	50 kA	137	530	363	3	9
L50QS050	50	500	500	200 kA	50 kA	211	770	516	5	8
L50QS060	60	500	500	200 kA	50 kA	269	1,500	881	5	9
L50QS070	70	500	500	200 kA	50 kA	393	1,775	1,185	6	11
L50QS080	80	500	500	200 kA	50 kA	616	3,550	1,720	6	11
L50QS090	90	500	500	200 kA	50 kA	720	4,075	1,990	8	14
L50QS100	100	500	500	200 kA	50 kA	905	4,577	2,313	9	17
L50QS125	125	500	500	200 kA	50 kA	1,503	7,655	4,815	10	17
L50QS150	150	500	500	200 kA	50 kA	2,382	11,100	7,190	12	21
L50QS175	175	500	500	200 kA	50 kA	3,148	16,500	9,900	14	25
L50QS200	200	500	500	200 kA	50 kA	4,102	18,233	11,567	17	32
L50QS225	225	500	500	200 kA	50 kA	5,379	25,300	16,700	19	35
L50QS250	250	500	500	200 kA	50 kA	7,094	31,350	22,500	20	37
L50QS275	275	500	500	200 kA	50 kA	9,655	40,175	30,177	21	39
L50QS300	300	500	500	200 kA	50 kA	11,240	53,800	36,150	25	46
L50QS325	325	500	500	200 kA	50 kA	13,183	56,250	41,000	27	51
L50QS350	350	500	500	200 kA	50 kA	14,246	68,850	44,800	30	61
L50QS400	400	500	500	200 kA	50 kA	21,155	100,300	67,300	33	65
L50QS450	450	500	500	200 kA	50 kA	26,425	121,000	84,650	35	63
L50QS500	500	500	500	200 kA	50 kA	31,747	141,000	103,500	39	72
L50QS600	600	500	500	200 kA	50 kA	43,922	193,500	128,000	49	92
L50QS700	700	500	500	200 kA	50 kA	75,597	314,000	230,000	51	92
L50QS800	800	500	500	200 kA	50 kA	92,717	393,500	280,000	63	117

POWR-SPEED® Fuses

L50QS SERIES HIGH-SPEED ROUND BODY

Ordering Information

SERIES	AMPERAGE RATING	AMPERE CODE	CATALOG NUMBER	ORDERING NUMBER	PACK QUANTITY	UPC
L50QS	35	035	L50QS035	L50QS035.T	10 Pcs/ Box	07945885991
L50QS	40	040	L50QS040	L50QS040.T	10 Pcs/ Box	07945885992
L50QS	50	050	L50QS050	L50QS050.T	10 Pcs/ Box	07945885993
L50QS	60	060	L50QS060	L50QS060.T	10 Pcs/ Box	07945885994
L50QS	70	070	L50QS070	L50QS070.T	10 Pcs/ Box	07945885995
L50QS	80	080	L50QS080	L50QS080.T	10 Pcs/ Box	07945885996
L50QS	90	090	L50QS090	L50QS090.T	10 Pcs/ Box	07945885997
L50QS	100	100	L50QS100	L50QS100.T	10 Pcs/ Box	07945885998
L50QS	125	125	L50QS125	L50QS125.V	5 Pcs/ Box	07945885999
L50QS	150	150	L50QS150	L50QS150.V	5 Pcs/ Box	07945886000
L50QS	175	175	L50QS175	L50QS175.V	5 Pcs/ Box	07945886001
L50QS	200	200	L50QS200	L50QS200.V	5 Pcs/ Box	07945886002
L50QS	225	225	L50QS225	L50QS225.V	5 Pcs/ Box	07945886003
L50QS	250	250	L50QS250	L50QS250.V	5 Pcs/ Box	07945886004
L50QS	275	275	L50QS275	L50QS275.V	5 Pcs/ Box	07945886005
L50QS	300	300	L50QS300	L50QS300.V	5 Pcs/ Box	07945886006
L50QS	325	325	L50QS325	L50QS325.V	5 Pcs/ Box	07945886011
L50QS	350	350	L50QS350	L50QS350.V	5 Pcs/ Box	07945886007
L50QS	400	400	L50QS400	L50QS400.V	5 Pcs/ Box	07945886008
L50QS	450	450	L50QS450	L50QS450.X	1 Pc/ Box	07945886009
L50QS	500	500	L50QS500	L50QS500.X	1 Pc/ Box	07945886010
L50QS	600	600	L50QS600	L50QS600.X	1 Pc/ Box	07945886012
L50QS	700	700	L50QS700	L50QS700.X	1 Pc/ Box	07945886013
L50QS	800	800	L50QS800	L50QS800.X	1 Pc/ Box	07945886014

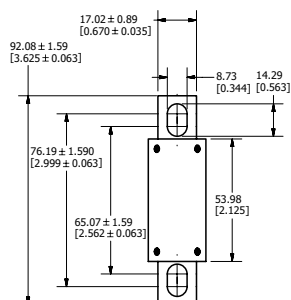
POWR-SPEED® Fuses

L50QS SERIES HIGH-SPEED ROUND BODY

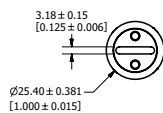
Dimensions

Millimeters [inches]

Document Number: OL-L50QS000

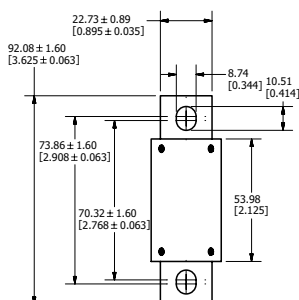


35-100A

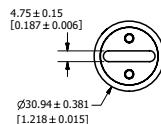


Stud Size: M8 (5/16")

Recommended Torque: 15 Nm (132.76 in-lb)

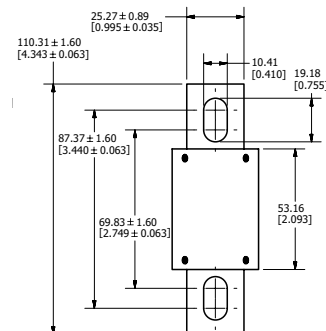


125-200A

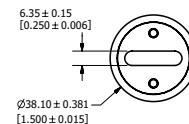


Stud Size: M8 (5/16")

Recommended Torque: 15 Nm (132.76 in-lb)

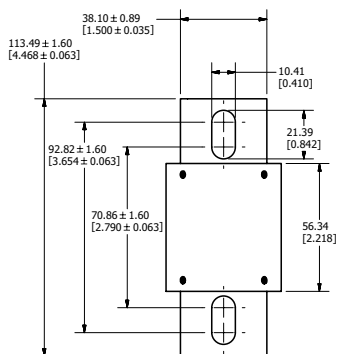


225-400A

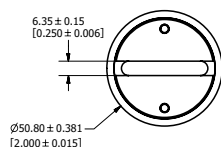


Stud Size: M8 (5/16")

Recommended Torque: 15 Nm (132.76 in-lb)

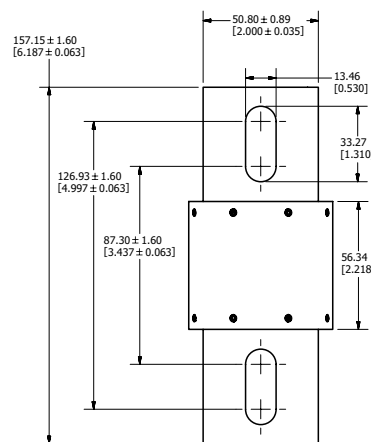


450-600A

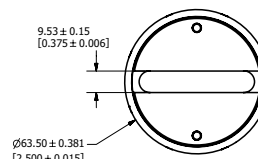


Stud Size: M8 (5/16")

Recommended Torque: 15 Nm (132.76 in-lb)



700-800A



Stud Size: M12 (1/2")

Recommended Torque: 54 Nm (477.94 in-lb)

POWR-SPEED® Fuses

L70S SERIES HIGH-SPEED ROUND BODY

700 V ac • Very Fast Acting • 650 V dc • 10–800 A



Description

Littelfuse L70S series high-speed fuses are designed to protect today's equipment and systems, and are manufactured with Littelfuse-developed technology that sets tomorrow's standards for accuracy, consistent quality, reliability, and predictable performance.

Littelfuse engineers have redefined high-speed fuse technology by using advanced metallurgical, polymer, and materials research, mathematical modeling, and computerized statistical analysis.

Features/Benefits

- Extremely current limiting
- Low watt losses
- Controlled transient over-voltages
- UL Recognized

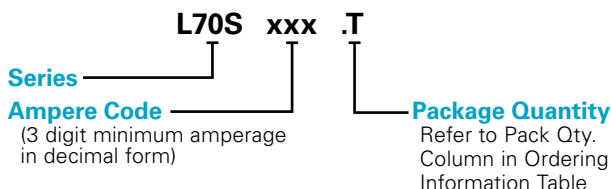
Applications

- Ac and dc drives
- Dc common bus protection
- Power converters
- UPS
- Soft-starters

Specifications

Voltage Rating	700 V ac 650 V dc
Amperage Rating	10, 15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100, 125, 150, 175, 200, 225, 250, 300, 350, 400, 450, 500, 600, 700, 800
Interrupting Rating	Ac: 200 kAIC Dc: 20 kAIC
Material	Body: melamine Terminals: copper (silver plated)
Mounting Type	Cylindrical (10–0 A) Bolted tags (35–800 A)
Operating Temperature	-55 °C to +125 °C
Storage Temperature	Up to 35 °C with relative humidity < 65 %
Approvals	UL Recognized (File: E71611) CSA Recognized (File: LR29862)
Environmental	RoHS Compliant
Country of Origin	Mexico

Part Numbering System



SERIES	AMP	CATALOG NUMBER	ORDERING NUMBER
L70S	10	L70S010	L70S010.T
L70S	500	L70S500	L70S500.X

Recommended Fuse Block

LSCR001 (35–100 A)
LSCR002 (125–800 A)

Web Resources

Download technical documents: Littelfuse.com/L70S

Note: high-speed fuses are designed for fixed installations. They are not intended for use in moving vehicle applications.

POWR-SPEED® Fuses

L70S SERIES HIGH-SPEED ROUND BODY

Electrical Specifications

CATALOG NUMBER	AMPERAGE RATING	VOLTAGE RATING		INTERRUPT RATING		MELTING (PRE-ARC) I ² T (A ² s)	TOTAL CLEARING I ² T (A ² s)	TOTAL CLEARING I ² T (A ² s)	TOTAL CLEARING I ² T (A ² s)	WATTS LOSS AT 100 % RATED CURRENT	WATTS LOSS AT 80 % RATED CURRENT
		AC	DC	AC	DC		100 kA @ 700 V AC	200 kA @ 700 V AC	20 kA @ 650 V DC	(W)	(W)
L70S010	10	700	650	200 kA	20 kA	21	160	173	346	2	1
L70S015	15	700	650	200 kA	20 kA	34	330	355	270	2	2
L70S020	20	700	650	200 kA	20 kA	48	550	599	300	5	2
L70S025	25	700	650	200 kA	20 kA	62	810	900	340	7	4
L70S030	30	700	650	200 kA	20 kA	77	1,130	1,220	417	10	5
L70S035	35	700	650	200 kA	20 kA	110	1,470	1,500	500	12	6
L70S040	40	700	650	200 kA	20 kA	150	1,830	2,000	660	13	7
L70S050	50	700	650	200 kA	20 kA	250	2,670	3,200	1,070	16	9
L70S060	60	700	650	200 kA	20 kA	380	3,646	4,674	1,572	18	9
L70S070	70	700	650	200 kA	20 kA	545	4,800	6,000	1,970	16	9
L70S080	80	700	650	200 kA	20 kA	745	6,180	7,550	2,380	21	11
L70S090	90	700	650	200 kA	20 kA	990	7,650	9,250	2,830	25	13
L70S100	100	700	650	200 kA	20 kA	1,266	9,407	11,117	3,266	29	14
L70S125	125	700	650	200 kA	20 kA	2,150	14,700	17,550	4,900	33	17
L70S150	150	700	650	200 kA	20 kA	3,280	21,250	25,700	6,800	51	24
L70S175	175	700	650	200 kA	20 kA	4,700	28,750	34,800	9,000	63	28
L70S200	200	700	650	200 kA	20 kA	6,411	37,300	45,583	11,447	75	33
L70S225	225	700	650	200 kA	20 kA	8,000	46,500	57,000	16,000	43	24
L70S250	250	700	650	200 kA	20 kA	9,900	58,000	69,500	22,000	49	27
L70S300	300	700	650	200 kA	20 kA	14,000	83,000	97,700	37,500	60	33
L70S350	350	700	650	200 kA	20 kA	19,000	113,000	131,000	59,000	71	36
L70S400	400	700	650	200 kA	20 kA	24,373	147,290	169,000	87,875	107	49
L70S450	450	700	650	200 kA	20 kA	33,000	191,000	219,000	119,000	85	47
L70S500	500	700	650	200 kA	20 kA	44,200	240,000	275,000	155,000	92	49
L70S600	600	700	650	200 kA	20 kA	72,000	370,250	405,000	246,182	106	56
L70S700	700	700	650	200 kA	20 kA	110,000	526,000	573,000	255,000	128	67
L70S800	800	700	650	200 kA	20 kA	157,082	735,330	762,333	262,949	156	78

POWR-SPEED® Fuses

L70S SERIES HIGH-SPEED ROUND BODY

Ordering Information

SERIES	AMPERAGE RATING	AMP CODE	CATALOG NUMBER	ORDERING NUMBER	PACK QUANTITY	UPC
L70S	10	010	L70S010	L70S010.T	10 Pcs/ Box	07945810161
L70S	15	015	L70S015	L70S015.T	10 Pcs/ Box	07945810163
L70S	20	020	L70S020	L70S020.T	10 Pcs/ Box	07945810164
L70S	25	025	L70S025	L70S025.T	10 Pcs/ Box	07945810165
L70S	30	030	L70S030	L70S030.T	10 Pcs/ Box	07945810166
L70S	35	035	L70S035	L70S035.T	10 Pcs/ Box	07945810152
L70S	40	040	L70S040	L70S040.T	10 Pcs/ Box	07945810167
L70S	50	050	L70S050	L70S050.T	10 Pcs/ Box	07945810168
L70S	60	060	L70S060	L70S060.T	10 Pcs/ Box	07945810169
L70S	70	070	L70S070	L70S070.V	5 Pcs/ Box	07945810170
L70S	80	080	L70S080	L70S080.V	5 Pcs/ Box	07945810171
L70S	90	090	L70S090	L70S090.V	5 Pcs/ Box	07945810172
L70S	100	100	L70S100	L70S100.V	5 Pcs/ Box	07945810173
L70S	125	125	L70S125	L70S125.V	5 Pcs/ Box	07945810174
L70S	150	150	L70S150	L70S150.V	5 Pcs/ Box	07945810175
L70S	175	175	L70S175	L70S175.V	5 Pcs/ Box	07945810176
L70S	200	200	L70S200	L70S200.V	5 Pcs/ Box	07945810177
L70S	225	225	L70S225	L70S225.V	5 Pcs/ Box	07945810188
L70S	250	250	L70S250	L70S250.V	5 Pcs/ Box	07945810178
L70S	300	300	L70S300	L70S300.V	5 Pcs/ Box	07945810179
L70S	350	350	L70S350	L70S350.V	5 Pcs/ Box	07945810180
L70S	400	400	L70S400	L70S400.V	5 Pcs/ Box	07945810181
L70S	450	450	L70S450	L70S450.X	1 Pc/ Box	07945810182
L70S	500	500	L70S500	L70S500.X	1 Pc/ Box	07945810183
L70S	600	600	L70S600	L70S600.X	1 Pc/ Box	07945810184
L70S	700	700	L70S700	L70S700.X	1 Pc/ Box	07945810185
L70S	800	800	L70S800	L70S800.X	1 Pc/ Box	07945810186

Dimensions

AMPERE RATING	FIGURE NO.	DIMENSIONS INCHES (mm)								
		A	B	C	D	E	F	G	H	J
10 – 30	1	2 (50.8)	—	½ (12.7)	9/16 (14.3)	—	—	—	—	—
31 – 60	2	2 7/8 (73.0)	3 7/16 (87.3)	3 3/4 (95.2)	4 3/8 (111.1)	1 (25.4)	43/64 (17.1)	1 1/32 (8.7)	1/8 (3.2)	—
61 – 100	2	2 7/8 (73.0)	3 9/16 (90.5)	3 11/16 (93.7)	4 3/8 (111.1)	1 7/32 (31.0)	29/32 (22.9)	5/16 (7.9)	3/16 (4.8)	—
101 – 200	2	2 27/32 (72.2)	3 17/32 (89.7)	4 5/32 (105.6)	5 3/32 (129.4)	1 ½ (38.1)	1 (25.4)	13/32 (10.3)	¼ (6.4)	—
201 – 400	2	2 27/32 (72.2)	3 17/32 (89.7)	4 5/32 (105.6)	5 3/32 (129.4)	2 (50.8)	1 ½ (38.1)	13/32 (10.3)	¼ (6.4)	—
401 – 600	2	2 27/32 (72.2)	4 29/32 (124.6)	5 ¼ (133.4)	7 3/32 (180.2)	2 ½ (63.5)	2 (50.8)	17/32 (13.5)	3/8 (9.5)	—
601 – 800	3	3 5/16 (84.1)	5 5/16 (134.9)	6 13/16 (173.0)	—	2 7/8 (73.0)	2 (50.8)	5/8 (15.9)	3/8 (9.5)	5/16 (7.9)

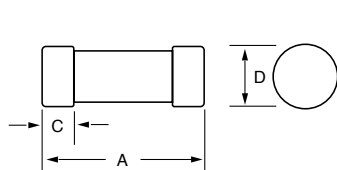


Figure 1

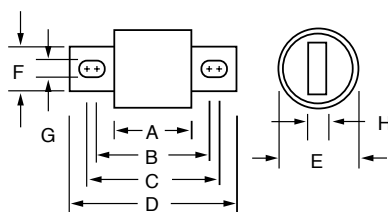


Figure 2

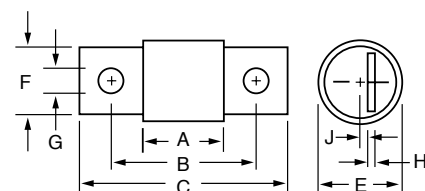


Figure 3

POWR-SPEED® Fuses

L50S SERIES HIGH-SPEED ROUND BODY

500 V ac • 450 V dc • Very Fast Acting • 10–800 A



Description

Littelfuse L50S series high-speed fuses are designed to protect today's equipment and systems, and are manufactured with Littelfuse-developed technology that sets tomorrow's standards for accuracy, consistent quality, reliability, and predictable performance.

Littelfuse engineers have redefined high-speed fuse technology by using advanced metallurgical, polymer, and materials research, mathematical modeling, and computerized statistical analysis.

Features/Benefits

- Extremely current limiting
- Low watt losses
- Controlled transient over-voltages
- UL Recognized

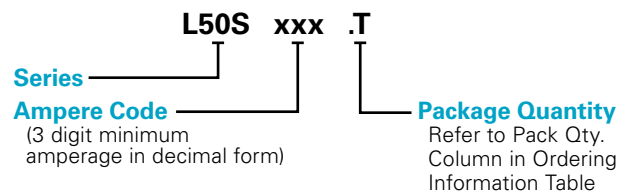
Applications

- Ac and dc drives
- Dc common bus protection
- Power converters
- UPS
- Soft-starters

Specifications

Voltage Rating	500 V ac 450 V dc
Amperage Rating	10, 12, 15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100, 125, 150, 175, 200, 225, 250, 275, 300, 350, 400, 450, 500, 550, 600, 700, 800
Interrupting Rating	Ac: 200 kAIC Dc: 20 kAIC
Material	Body: melamine Terminals: copper (silver plated)
Mounting Type	Cylindrical (10–30 A) Bolted tags (35–800 A)
Operating Temperature	-55 °C to +125 °C
Storage Temperature	Up to 35 °C with relative humidity less than 65%
Approvals	UL Recognized (File: E71611) CSA Recognized (File: LR29862)
Environmental	RoHS Compliant
Country of Origin	Mexico

Part Numbering System



SERIES	AMP	CATALOG NUMBER	ORDERING NUMBER
L50S	10	L50S010	L50S010.T
L50S	500	L50S500	L50S500.X

Recommended Fuse Holder

LSCR001 (35–200 A)
LSCR002 (225–800 A)

Web Resources

Download technical documents: Littelfuse.com/L50S

Note: high-speed fuses are designed for fixed installations. They are not intended for use in moving vehicle applications.

POWR-SPEED® Fuses

L50S SERIES HIGH-SPEED ROUND BODY

Electrical Specifications

CATALOG NUMBER	AMPERAGE RATING	VOLTAGE RATING		INTERRUPT RATING		MELTING (PRE-ARC) I ² T (A ² s)	TOTAL CLEARING I ² T (A ² s)	TOTAL CLEARING I ² T (A ² s)	TOTAL CLEARING I ² T (A ² s)	WATTS LOSS AT 100 % RATED CURRENT	WATTS LOSS AT 80 % RATED CURRENT
		AC	DC	AC	DC		100 kA @ 500 V AC	200 kA @ 500 V AC	20 kA @ 450 V DC	(W)	(W)
L50S010	10	500	450	200 kA	20 kA	21	112	128	85	2	1
L50S012	12	500	450	200 kA	20 kA	26	149	170	97	2	1
L50S015	15	500	450	200 kA	20 kA	34	222	250	116	2	2
L50S020	20	500	450	200 kA	20 kA	48	363	400	143	5	3
L50S025	25	500	450	200 kA	20 kA	62	528	600	170	7	4
L50S030	30	500	450	200 kA	20 kA	77	707	820	193	10	5
L50S035	35	500	450	200 kA	20 kA	130	1,120	1,210	400	6	3
L50S040	40	500	450	200 kA	20 kA	161	1,420	1,550	525	7	4
L50S050	50	500	450	200 kA	20 kA	222	2,150	2,360	867	11	6
L50S060	60	500	450	200 kA	20 kA	259	3,016	3,300	1,287	13	7
L50S070	70	500	450	200 kA	20 kA	420	4,100	4,930	1,670	17	10
L50S080	80	500	450	200 kA	20 kA	554	5,300	6,950	2,240	19	10
L50S090	90	500	450	200 kA	20 kA	677	6,750	9,500	2,900	24	13
L50S100	100	500	450	200 kA	20 kA	807	8,273	12,600	3,626	30	16
L50S125	125	500	450	200 kA	20 kA	1,290	13,100	19,000	5,150	22	12
L50S150	150	500	450	200 kA	20 kA	2,504	19,100	26,500	6,700	27	15
L50S175	175	500	450	200 kA	20 kA	3,224	26,300	35,000	8,700	33	17
L50S200	200	500	450	200 kA	20 kA	3,938	34,233	44,583	11,297	35	19
L50S225	225	500	450	200 kA	20 kA	6,034	43,500	56,000	14,750	31	17
L50S250	250	500	450	200 kA	20 kA	7,510	54,000	69,000	19,600	36	19
L50S275	275	500	450	200 kA	20 kA	9,000	65,500	82,000	25,500	41	22
L50S300	300	500	450	200 kA	20 kA	10,808	78,500	97,500	32,200	42	23
L50S350	350	500	450	200 kA	20 kA	16,500	107,000	132,000	50,100	50	28
L50S400	400	500	450	200 kA	20 kA	22,941	142,333	169,667	72,270	58	30
L50S450	450	500	450	200 kA	20 kA	29,300	178,500	208,000	95,000	58	32
L50S500	500	500	450	200 kA	20 kA	37,000	220,000	250,000	118,000	64	35
L50S550	550	500	450	200 kA	20 kA	45,851	311,667	347,333	176,766	75	41
L50S600	600	500	450	200 kA	20 kA	45,851	311,667	347,333	176,766	98	50

POWR-SPEED® Fuses

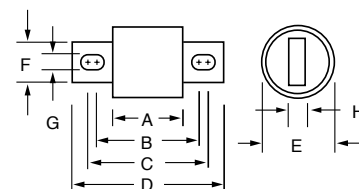
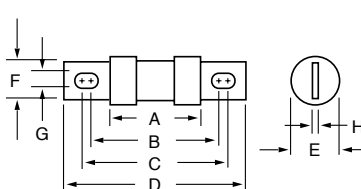
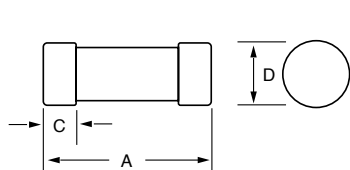
L50S SERIES HIGH-SPEED ROUND BODY

Ordering Information

SERIES	AMPERAGE RATING	AMP CODE	CATALOG NUMBER	ORDERING NUMBER	PACK QUANTITY	UPC
L50S	10	010	L50S010	L50S010.T	10 pcs/box	07945885010
L50S	12	012	L50S012	L50S012.T	10 pcs/box	07945885012
L50S	15	015	L50S015	L50S015.T	10 pcs/box	07945885015
L50S	20	020	L50S020	L50S020.T	10 pcs/box	07945885020
L50S	25	025	L50S025	L50S025.T	10 pcs/box	07945885025
L50S	30	030	L50S030	L50S030.T	10 pcs/box	07945885030
L50S	35	035	L50S035	L50S035.T	10 pcs/box	07945885035
L50S	40	040	L50S040	L50S040.T	10 pcs/box	07945885040
L50S	50	050	L50S050	L50S050.T	10 pcs/box	07945885050
L50S	60	060	L50S060	L50S060.T	10 pcs/box	07945885060
L50S	70	070	L50S070	L50S070.T	10 pcs/box	07945885070
L50S	80	080	L50S080	L50S080.T	10 pcs/box	07945885080
L50S	90	090	L50S090	L50S090.T	10 pcs/box	07945885090
L50S	100	100	L50S100	L50S100.T	10 pcs/box	07945885100
L50S	125	125	L50S125	L50S125.V	5 pcs/box	07945885125
L50S	150	150	L50S150	L50S150.V	5 pcs/box	07945885150
L50S	175	175	L50S175	L50S175.V	5 pcs/box	07945885175
L50S	200	200	L50S200	L50S200.V	5 pcs/box	07945885200
L50S	225	225	L50S225	L50S225.V	5 pcs/box	07945885225
L50S	250	250	L50S250	L50S250.V	5 pcs/box	07945885250
L50S	275	275	L50S275	L50S275.V	5 pcs/box	07945885275
L50S	300	300	L50S300	L50S300.V	5 pcs/box	07945885300
L50S	350	350	L50S350	L50S350.V	5 pcs/box	07945885350
L50S	400	400	L50S400	L50S400.V	5 pcs/box	07945885400
L50S	450	450	L50S450	L50S450.X	1 pc/box	07945885450
L50S	500	500	L50S500	L50S500.X	1 pc/box	07945885500
L50S	550	550	L50S550	L50S550.X	1 pc/box	07945885550
L50S	600	600	L50S600	L50S600.X	1 pc/box	07945885600
L50S	700	700	L50S700	L50S700.X	1 pc/box	07945885700
L50S	800	800	L50S800	L50S800.X	1 pc/box	07945885800

Dimensions

AMPERE RATING	FIGURE NO.	DIMENSIONS INCHES (mm)							
		A	B	C	D	E	F	G	H
10–30	1	2 (50.8)	—	½ (12.7)	⅜ (14.3)	—	—	—	—
31–60	2	1⅝ (41.3)	2¼ (57.2)	2½ (63.5)	3⅜ (81.0)	1⅜ (20.6)	23/32 (18.3)	11/32 (8.7)	⅛ (3.2)
61–100	3	2⅞ (54.0)	2⅞ (68.3)	3 (76.2)	3⅝ (92.1)	1 (25.4)	.670 (17.0)	11/32 (8.7)	⅛ (3.2)
101–200	3	2⅞ (54.0)	2⅞ (71.4)	2⅞ (74.6)	3⅝ (92.1)	1⅜ (31.0)	.895 (22.7)	5/16 (7.9)	3/16 (4.75)
201–400	3	2⅞ (53.2)	2⅞ (70.6)	3⅞ (86.5)	4⅞ (110.3)	1½ (38.1)	1 (25.4)	13/32 (10.3)	¼ (6.4)
401–600	3	2⅞ (56.4)	2⅞ (73.8)	3⅞ (89.7)	4⅞ (113.5)	2 (50.8)	1½ (38.1)	13/32 (10.3)	¼ (6.4)
601–800	3	2⅞ (56.4)	4⅞ (108.7)	4⅞ (117.5)	6⅞ (164.3)	2½ (63.5)	2 (50.8)	17/32 (13.5)	¾ (9.5)



POWR-SPEED® Fuses

L15S SERIES HIGH-SPEED ROUND BODY

150 V ac • Very Fast-Acting • 1–1000 A



Description

The L15S series is a traditional North American bolted style high-speed fuse for protection of power semiconductor devices that are rated up to 150 V ac and up to 150 V dc. Littelfuse POWR-SPEED® products offer optimized circuit protection at the extremely fast speed required to protect power semiconductor devices such as silicon controlled rectifiers (SCR's), diodes, thyristors, triacs, transistors, and similar solid-state devices. These devices are used in power equipment including variable speed drives, power rectifiers, UPS systems, dc power supplies, and in a wide range of electronic equipment. May be used wherever extremely fast-acting, current-limiting fuses with no time delay are required.

Features/Benefits

- Compliance with US and Canadian requirements
- Traditional North American bolted style dimensions
- Class aR performance
- Direct bus-bar mount or stud mount design
- RoHS Compliant

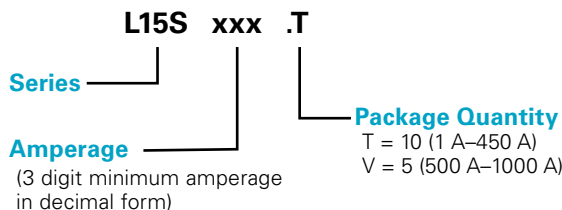
Applications

- Power converters (inverters, rectifiers, ups)
- Power supplies
- Industrial heaters
- Variable speed drives
- Battery chargers
- Soft starters

Specifications

Voltage Ratings	Ac: 150 V Dc: 100 V–150 V
Ampere Range	1–1000 A
Interrupting Rating	Ac: 100 kA Dc: 20 kA Self Certified
Approvals	UL Recognized (File: E71611) CSA Recognized (File: LR29862)
Time Constant	10 ms
Material	Body: melamine Cap: copper alloy (silver plated)
Environmental	RoHS
Country of Origin	Mexico
Operating Temperature	-55 °C to +125 °C
Storage Temperature	Up to 35 °C with relative humidity <65 %

Part Numbering System



SERIES	AMPERAGE	CATALOG NUMBER	ORDERING NUMBER
L15S	005	L15S005	L15S005.T
L15S	500	L15S500	L15S500.V
L15S	1000	L15S1000	L15S1000V

Recommended Fuse Holders

1LFS101/1LFS102
LSCR001/LSCR002

Web Resources

For additional information, visit: Littelfuse.com/high-speed

Note: high-speed fuses are designed for fixed installations. They are not intended for use in moving vehicle applications.

POWR-SPEED® Fuses

L15S SERIES HIGH-SPEED ROUND BODY

Electrical Specifications

CATALOG NUMBER	AMPERAGE RATING	VOLTAGE RATING		INTERRUPT RATING	
		AC	DC	AC	DC
L15S001	1	150	150	100 kA	20 kA
L15S002	2	150	150	100 kA	20 kA
L15S003	3	150	150	100 kA	20 kA
L15S004	4	150	150	100 kA	20 kA
L15S005	5	150	150	100 kA	20 kA
L15S006	6	150	150	100 kA	20 kA
L15S007	7	150	150	100 kA	20 kA
L15S008	8	150	150	100 kA	20 kA
L15S009	9	150	150	100 kA	20 kA
L15S010	10	150	150	100 kA	20 kA
L15S012	12	150	150	100 kA	20 kA
L15S015	15	150	150	100 kA	20 kA
L15S020	20	150	150	100 kA	20 kA
L15S025	25	150	150	100 kA	20 kA
L15S035	35	150	150	100 kA	20 kA
L15S040	40	150	150	100 kA	20 kA
L15S045	45	150	150	100 kA	20 kA
L15S050	50	150	150	100 kA	20 kA
L15S060	60	150	150	100 kA	20 kA
L15S070	70	150	100	100 kA	20 kA
L15S080	80	150	100	100 kA	20 kA
L15S090	90	150	100	100 kA	20 kA
L15S100	100	150	100	100 kA	20 kA
L15S125	125	150	100	100 kA	20 kA
L15S150	150	150	100	100 kA	20 kA
L15S200	200	150	100	100 kA	20 kA
L15S250	250	150	100	100 kA	20 kA
L15S300	300	150	100	100 kA	20 kA
L15S350	350	150	100	100 kA	20 kA
L15S400	400	150	100	100 kA	20 kA
L15S450	450	150	100	100 kA	20 kA
L15S500	500	150	100	100 kA	20 kA
L15S600	600	150	100	100 kA	20 kA
L15S800	800	150	100	100 kA	20 kA
L15S1000	1000	150	100	100 kA	20 kA

POWR-SPEED® Fuses

L15S SERIES HIGH-SPEED ROUND BODY

Ordering Information

SERIES	AMPERAGE	AMPERE CODE	CATALOG NUMBER	ORDERING NUMBER	PACK QUANTITY	UPC
L15S	1	001.	L15S001	L15S001.T	10 Pcs/Box	07945800218
L15S	2	002.	L15S002	L15S002.T	10 Pcs/Box	07945800219
L15S	3	003.	L15S003	L15S003.T	10 Pcs/Box	07945800220
L15S	4	004.	L15S004	L15S004.T	10 Pcs/Box	07945800221
L15S	5	005.	L15S005	L15S005.T	10 Pcs/Box	07945800222
L15S	6	006.	L15S006	L15S006.T	10 Pcs/Box	07945800223
L15S	7	007.	L15S007	L15S007.T	10 Pcs/Box	07945800224
L15S	8	008.	L15S008	L15S008.T	10 Pcs/Box	07945800225
L15S	9	009.	L15S009	L15S009.T	10 Pcs/Box	07945800226
L15S	10	010.	L15S010	L15S010.T	10 Pcs/Box	07945800227
L15S	12	012.	L15S012	L15S012.T	10 Pcs/Box	07945800228
L15S	15	015.	L15S015	L15S015.T	10 Pcs/Box	07945800229
L15S	20	020.	L15S020	L15S020.T	10 Pcs/Box	07945800230
L15S	25	025.	L15S025	L15S025.T	10 Pcs/Box	07945800231
L15S	30	030.	L15S030	L15S030.T	10 Pcs/Box	07945800232
L15S	35	035.	L15S035	L15S035.T	10 Pcs/Box	07945800233
L15S	40	040.	L15S040	L15S040.T	10 Pcs/Box	07945800234
L15S	45	045.	L15S045	L15S045.T	10 Pcs/Box	07945800235
L15S	50	050.	L15S050	L15S050.T	10 Pcs/Box	07945800236
L15S	60	060.	L15S060	L15S060.T	10 Pcs/Box	07945800237
L15S	70	070.	L15S070	L15S070.T	10 Pcs/Box	07945800238
L15S	80	080.	L15S080	L15S080.T	10 Pcs/Box	07945800239
L15S	90	090.	L15S090	L15S090.T	10 Pcs/Box	07945800240
L15S	100	100.	L15S100	L15S100.T	10 Pcs/Box	07945800241
L15S	125	125.	L15S125	L15S125.T	10 Pcs/Box	07945800242
L15S	150	150.	L15S150	L15S150.T	10 Pcs/Box	07945800243
L15S	200	200.	L15S200	L15S200.T	10 Pcs/Box	07945800244
L15S	250	250.	L15S250	L15S250.T	10 Pcs/Box	07945800245
L15S	300	300.	L15S300	L15S300.T	10 Pcs/Box	07945800246
L15S	350	350.	L15S350	L15S350.T	10 Pcs/Box	07945800247
L15S	400	400.	L15S400	L15S400.T	10 Pcs/Box	07945800248
L15S	450	450.	L15S450	L15S450.T	10 Pcs/Box	07945800249
L15S	500	500.	L15S500	L15S500.V	5 Pcs/Box	07945800250
L15S	600	600.	L15S600	L15S600.V	5 Pcs/Box	07945800251
L15S	800	800.	L15S800	L15S800.V	5 Pcs/Box	07945800252
L15S	1000	1000	L15S1000	L15S1000V	5 Pcs/Box	07945800253

AMPERE RATING	FIG. NO.	DIMENSIONS INCHES (MM)							
		A	B	C	D	E	F	G	H
1 – 30	1	1½ (38.1)	—	⅜ (9.5)	1⅜ ₃₂ (10.3)	—	—	—	—
31 – 60	1	2 (50.8)	—	⅝ (15.9)	1⅜ ₁₆ (20.6)	—	—	—	—
61 – 450	2	1⅝ ₃₂ (29.4)	1⅞ (47.6)	2⅜ ₁₆ (55.6)	2⅞ ₃₂ (67.5)	1 (25.4)	4⅜ ₆₄ (17.1)	⅝ ₁₆ (7.9)	⅜ ₁₆ (4.8)
451 – 1000	2	1¼ (31.8)	1⅝ ₁₆ (49.2)	2⅞ ₁₆ (65.1)	3½ (88.9)	1½ (38.1)	1 (25.4)	1⅜ ₃₂ (10.3)	¼ (6.4)



POWR-SPEED® Fuses

L25S SERIES HIGH-SPEED ROUND BODY

250 V ac • Very Fast-Acting • 1–800 A



Description

The L25S Series is a traditional North American bolted style high-speed fuse for protection of power semiconductor devices that are rated up to 250 V ac and 200 V dc.

Littelfuse POWR-SPEED® products offer optimized circuit protection at the extremely fast speed required to protect power semiconductor devices such as silicon controlled rectifiers (SCR's), diodes, thyristors, triacs, transistors, and similar solid-state devices. These devices are used in power equipment including variable speed drives, power rectifiers, UPS systems, dc power supplies, and in a wide range of electronic equipment. May be used wherever extremely fast-acting, current-limiting fuses are used with no time delay required.

Features/Benefits

- Compliance with US and Canadian requirements
- Traditional North American bolted style dimensions
- Class aR performance
- Direct bus-bar mount or stud mount design
- RoHS Compliant applications

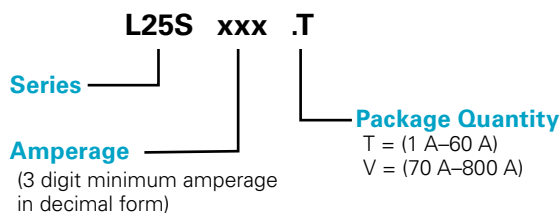
Applications

- Power converters (inverters, rectifiers, UPS)
- Power supplies
- Industrial heaters
- Variable speed drives
- Battery chargers
- Soft starters

Specifications

Voltage Ratings	Ac: 250 V Dc: 200 V–250 V
Ampere Range	1–800 A
Interrupting Rating	Ac: 200 kA Dc: 20 kA Self Certified
Approvals	UL Recognized (File: E71611) CSA Recognized (File: LR29862)
Time Constant	10 ms
Material	Body: melamine Caps: copper alloy (silver plated)
Environmental	RoHS
Country of Origin	Mexico
Operating Temperature	-55 °C to +125 °C
Storage Temperature	Up to 35 °C with Relative Humidity <65 %

Part Numbering System



SERIES	AMPERAGE	CATALOG NUMBER	ORDERING NUMBER
L25S	1	L25S001	L25S001.T
L25S	100	L25S100	L25S100.V

Recommended Fuse Holders

1LFS101/1LFS102
LSCR001/LSCR002

Web Resources

For additional information, visit: Littelfuse.com/high-speed

Note: high-speed fuses are designed for fixed installations. They are not intended for use in moving vehicle applications.

POWR-SPEED® Fuses

L25S SERIES HIGH-SPEED ROUND BODY

Electrical Specifications

CATALOG NUMBER	AMPERAGE RATING	VOLTAGE RATING		INTERRUPT RATING	
		AC	DC	AC	DC
L25S001	1	250	250	200 kA	20 kA
L25S002	2	250	250	200 kA	20 kA
L25S003	3	250	250	200 kA	20 kA
L25S004	4	250	250	200 kA	20 kA
L25S005	5	250	250	200 kA	20 kA
L25S006	6	250	250	200 kA	20 kA
L25S008	8	250	250	200 kA	20 kA
L25S010	10	250	250	200 kA	20 kA
L25S012	12	250	250	200 kA	20 kA
L25S015	15	250	250	200 kA	20 kA
L25S020	20	250	250	200 kA	20 kA
L25S025	25	250	250	200 kA	20 kA
L25S030	30	250	250	200 kA	20 kA
L25S035	35	250	250	200 kA	20 kA
L25S040	40	250	250	200 kA	20 kA
L25S045	45	250	250	200 kA	20 kA
L25S050	50	250	250	200 kA	20 kA
L25S060	60	250	250	200 kA	20 kA
L25S070	70	250	250	200 kA	20 kA
L25S080	80	250	250	200 kA	20 kA
L25S090	90	250	250	200 kA	20 kA
L25S100	100	250	250	200 kA	20 kA
L25S125	125	250	250	200 kA	20 kA
L25S150	150	250	250	200 kA	20 kA
L25S175	175	250	250	200 kA	20 kA
L25S200	200	250	250	200 kA	20 kA
L25S225	225	250	200	200 kA	20 kA
L25S250	250	250	200	200 kA	20 kA
L25S275	275	250	200	200 kA	20 kA
L25S300	300	250	200	200 kA	20 kA
L25S350	350	250	200	200 kA	20 kA
L25S400	400	250	200	200 kA	20 kA
L25S450	450	250	200	200 kA	20 kA
L25S500	500	250	200	200 kA	20 kA
L25S600	600	250	200	200 kA	20 kA
L25S700	700	250	200	200 kA	20 kA
L25S800	800	250	200	200 kA	20 kA

POWR-SPEED® Fuses

L25S SERIES HIGH-SPEED ROUND BODY

Ordering Information

SERIES	AMPERAGE	AMPERE CODE	CATALOG NUMBER	ORDERING NUMBER	PACK QUANTITY	UPC
L25S	1	001.	L25S001	L25S001.T	10 Pcs/Box	07945884001
L25S	2	002.	L25S002	L25S002.T	10 Pcs/Box	07945884002
L25S	3	003.	L25S003	L25S003.T	10 Pcs/Box	07945884003
L25S	4	004.	L25S004	L25S004.T	10 Pcs/Box	07945884004
L25S	5	005.	L25S005	L25S005.T	10 Pcs/Box	07945884005
L25S	6	006.	L25S006	L25S006.T	10 Pcs/Box	07945884006
L25S	8	008.	L25S008	L25S008.T	10 Pcs/Box	07945884008
L25S	10	010.	L25S010	L25S010.T	10 Pcs/Box	07945884010
L25S	12	012.	L25S012	L25S012.T	10 Pcs/Box	07945884012
L25S	15	015.	L25S015	L25S015.T	10 Pcs/Box	07945884015
L25S	20	020.	L25S020	L25S020.T	10 Pcs/Box	07945884020
L25S	25	025.	L25S025	L25S025.T	10 Pcs/Box	07945884025
L25S	30	030.	L25S030	L25S030.T	10 Pcs/Box	07945884030
L25S	35	035.	L25S035	L25S035.T	10 Pcs/Box	07945884035
L25S	40	040.	L25S040	L25S040.T	10 Pcs/Box	07945884040
L25S	45	045.	L25S045	L25S045.T	10 Pcs/Box	07945884045
L25S	50	050.	L25S050	L25S050.T	10 Pcs/Box	07945884050
L25S	60	060.	L25S060	L25S060.T	10 Pcs/Box	07945884060
L25S	70	070.	L25S070	L25S070.V	5 Pcs/Box	07945884070
L25S	80	080.	L25S080	L25S080.V	5 Pcs/Box	07945884080
L25S	90	090.	L25S090	L25S090.V	5 Pcs/Box	07945884090
L25S	100	100.	L25S100	L25S100.V	5 Pcs/Box	07945884100
L25S	125	125.	L25S125	L25S125.V	5 Pcs/Box	07945884125
L25S	150	150.	L25S150	L25S150.V	5 Pcs/Box	07945884150
L25S	175	175.	L25S175	L25S175.V	5 Pcs/Box	07945884175
L25S	200	200.	L25S200	L25S200.V	5 Pcs/Box	07945884200
L25S	225	225.	L25S225	L25S225.V	5 Pcs/Box	07945884225
L25S	250	250.	L25S250	L25S250.V	5 Pcs/Box	07945884250
L25S	275	275.	L25S275	L25S275.V	5 Pcs/Box	07945884275
L25S	300	300.	L25S300	L25S300.V	5 Pcs/Box	07945884300
L25S	350	350.	L25S350	L25S350.V	5 Pcs/Box	07945884350
L25S	400	400.	L25S400	L25S400.V	5 Pcs/Box	07945884400
L25S	450	450.	L25S450	L25S450.V	5 Pcs/Box	07945884450
L25S	500	500.	L25S500	L25S500.V	5 Pcs/Box	07945884500
L25S	600	600.	L25S600	L25S600.V	5 Pcs/Box	07945884600
L25S	700	700.	L25S700	L25S700.V	5 Pcs/Box	07945884700
L25S	800	800.	L25S800	L25S800.V	5 Pcs/Box	07945884800

POWR-SPEED® Fuses

L25S SERIES HIGH-SPEED ROUND BODY

Dimensions

AMPERE RATING	FIG. NO.	DIMENSIONS INCHES (MM)							
		A	B	C	D	E	F	G	H
1 – 30	1	2 (50.8)	—	½ (12.7)	⅜ (14.3)	—	—	—	—
31 – 60	2	1⅝ (41.3)	2¼ (57.2)	2½ (63.5)	3⅜ (81.0)	1⅜ (20.6)	2⅜ (18.3)	1⅜ (8.7)	⅜ (3.2)
61 – 200	3	1⅝ (41.3)	2⅝ (58.7)	2⅞ (61.9)	3⅝ (79.4)	1⅞ (31.0)	1 (25.4)	⅝ (7.9)	⅜ (4.8)
201 – 700	3	1⅞ (40.5)	2⅞ (57.9)	2⅞ (73.8)	3⅞ (97.6)	1½ (38.1)	1 (25.4)	1⅜ (10.3)	¼ (6.4)
701 – 800	3	1⅞ (40.5)	2⅞ (57.9)	2⅞ (73.8)	3⅞ (97.6)	2 (50.8)	1½ (38.1)	1⅜ (10.3)	¼ (6.4)

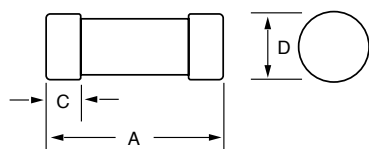


Figure 1

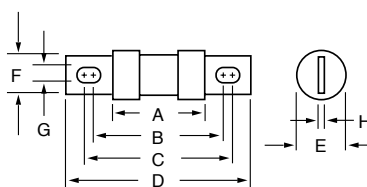


Figure 2

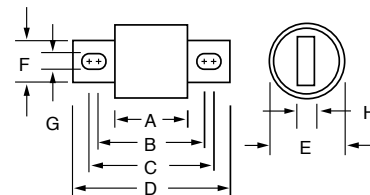


Figure 3

POWR-SPEED® Fuses

L60S/KLC SERIES HIGH-SPEED ROUND BODY

600 V ac • Very Fast-Acting • 1–800 A



L60S Series

KLC Series

Description

The L60S and KLC series is a traditional North American style high-speed fuse for protection of power semiconductor devices that are rated up to 600 V ac. These fuse series are typically used for replacement purposes only. For new designs L70QS series is recommended.

Features/Benefits

- Compliance with US and Canadian requirements
- Traditional North American cylindrical and bolted style dimensions
- Class aR performance

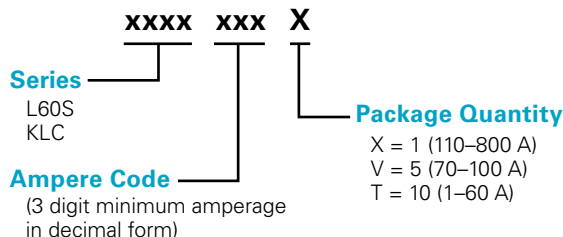
Applications

- Small power converters
- Power supplies
- Control circuits

Specifications

Voltage Rating	600 V ac
Ampere Range	1–800 A
Interrupting Rating	200 kA rms
Approvals	UL Recognized (File: E71611) CSA Recognized (File: LR29862)
Country of Origin	Mexico
Operating Temperature	-55 °C to +125 °C
Storage Temperature	Up to 35 °C with relative humidity <65 %

Part Numbering System



Recommended Fuse Holders

1LFS101/1LFS102
LSCR001/LSCR002

Web Resources

For additional information, visit: [Littelfuse.com/high-speed](https://www.littelfuse.com/high-speed)

Note: high-speed fuses are designed for fixed installations. They are not intended for use in moving vehicle applications.

POWR-SPEED® Fuses

L60S/KLC SERIES HIGH-SPEED ROUND BODY

Ordering Information

L60S SERIES						
SERIES	AMPERAGE	AMPERE CODE	CATALOG NUMBER	ORDERING NUMBER	PACK QUANTITY	UPC
L60S	1	001.	L60S001	L60S001.T	10 Pcs/Box	07945810100
L60S	2	002.	L60S002	L60S002.T	10 Pcs/Box	07945810101
L60S	3	003.	L60S003	L60S003.T	10 Pcs/Box	07945810102
L60S	4	004.	L60S004	L60S004.T	10 Pcs/Box	07945810103
L60S	5	005.	L60S005	L60S005.T	10 Pcs/Box	07945810104
L60S	6	006.	L60S006	L60S006.T	10 Pcs/Box	07945810105
L60S	8	008.	L60S008	L60S008.T	10 Pcs/Box	07945810107
L60S	10	010.	L60S010	L60S010.T	10 Pcs/Box	07945810108
L60S	12	012.	L60S012	L60S012.T	10 Pcs/Box	07945810109
L60S	15	015.	L60S015	L60S015.T	10 Pcs/Box	07945810110
L60S	17.5	17.5	L60S17.5	L60S17.5T	10 Pcs/Box	07945810135
L60S	20	020.	L60S020	L60S020.T	10 Pcs/Box	07945810111
L60S	25	025.	L60S025	L60S025.T	10 Pcs/Box	07945810112
L60S	30	030.	L60S030	L60S030.T	10 Pcs/Box	07945810113
L60S	35	035.	L60S035	L60S035.T	10 Pcs/Box	07945810114
L60S	40	040.	L60S040	L60S040.T	10 Pcs/Box	07945810115
L60S	45	045.	L60S045	L60S045.T	10 Pcs/Box	07945810116
L60S	50	050.	L60S050	L60S050.T	10 Pcs/Box	07945810117
L60S	60	060.	L60S060	L60S060.T	10 Pcs/Box	07945810118
L60S	70	070.	L60S070	L60S070.V	5 Pcs/Box	07945810119
L60S	80	080.	L60S080	L60S080.V	5 Pcs/Box	07945810120
L60S	90	090.	L60S090	L60S090.V	5 Pcs/Box	07945810121
L60S	100	100.	L60S100	L60S100.V	5 Pcs/Box	07945810122
L60S	125	125.	L60S125	L60S125.X	1 Pcs/Box	07945810123
L60S	150	150.	L60S150	L60S150.X	1 Pcs/Box	07945810124
L60S	175	175.	L60S175	L60S175.X	1 Pcs/Box	07945810125
L60S	200	200.	L60S200	L60S200.X	1 Pcs/Box	07945810126
L60S	225	225.	L60S225	L60S225.X	1 Pcs/Box	07945810137
L60S	250	250.	L60S250	L60S250.X	1 Pcs/Box	07945810127
L60S	300	300.	L60S300	L60S300.X	1 Pcs/Box	07945810128
L60S	350	350.	L60S350	L60S350.X	1 Pcs/Box	07945810129
L60S	400	400.	L60S400	L60S400.X	1 Pcs/Box	07945810130
L60S	450	450.	L60S450	L60S450.X	1 Pcs/Box	07945810131
L60S	500	500.	L60S500	L60S500.X	1 Pcs/Box	07945810132
L60S	600	600.	L60S600	L60S600.X	1 Pcs/Box	07945810133
L60S	700	700.	L60S700	L60S700.X	1 Pcs/Box	07945810136
L60S	800	800.	L60S800	L60S800.X	1 Pcs/Box	07945810134

POWR-SPEED® Fuses

L60S/KLC SERIES HIGH-SPEED ROUND BODY

Ordering Information

KLC* SERIES						
SERIES	AMPERAGE	AMPERE CODE	CATALOG NUMBER	ORDERING NUMBER	PACK QUANTITY	UPC
KLC	1	001.	KLC001	OKLC001.T	10 pcs/box	07945823031
KLC	2	002.	KLC002	OKLC002.T	10 pcs/box	07945823041
KLC	3	003.	KLC003	OKLC003.T	10 pcs/box	07945823047
KLC	4	004.	KLC004	OKLC004.T	10 pcs/box	07945823053
KLC	5	005.	KLC005	OKLC005.T	10 pcs/box	07945823055
KLC	6	006.	KLC006	OKLC006.T	10 pcs/box	07945823058
KLC	7	007.	KLC007	OKLC007.T	10 pcs/box	07945823061
KLC	8	008.	KLC008	OKLC008.T	10 pcs/box	07945823063
KLC	10	010.	KLC010	OKLC010.T	10 pcs/box	07945823065
KLC	12	012.	KLC012	OKLC012.T	10 pcs/box	07945823066
KLC	15	015.	KLC015	OKLC015.T	10 pcs/box	07945823068
KLC	17.5	17.5	KLC17.5	OKLC17.5T	10 pcs/box	07945823069
KLC	20	020.	KLC020	OKLC020.T	10 pcs/box	07945823071
KLC	25	025.	KLC025	OKLC025.T	10 pcs/box	07945823072
KLC	30	030.	KLC030	OKLC030.T	10 pcs/box	07945823073
KLC	35	035.	KLC035	OKLC035.T	10 pcs/box	07945823074
KLC	40	040.	KLC040	OKLC040.T	10 pcs/box	07945823075
KLC	45	045.	KLC045	OKLC045.T	10 pcs/box	07945823076
KLC	50	050.	KLC050	OKLC050.T	10 pcs/box	07945823077
KLC	60	060.	KLC060	OKLC060.T	10 pcs/box	07945823078
KLC	70	070.	KLC070	OKLC070.V	5 pcs/box	07945823079
KLC	80	080.	KLC080	OKLC080.V	5 pcs/box	07945823080
KLC	90	090.	KLC090	OKLC090.V	5 pcs/box	07945823081
KLC	100	100.	KLC100	OKLC100.V	5 pcs/box	07945823082
KLC	110	110.	KLC110	OKLC110.X	1 pcs/box	07945823083
KLC	125	125.	KLC125	OKLC125.X	1 pcs/box	07945823084
KLC	150	150.	KLC150	OKLC150.X	1 pcs/box	07945823086
KLC	175	175.	KLC175	OKLC175.X	1 pcs/box	07945823087
KLC	200	200.	KLC200	OKLC200.X	1 pcs/box	07945823088
KLC	225	225.	KLC225	OKLC225.X	1 pcs/box	07945823089
KLC	250	250.	KLC250	OKLC250.X	1 pcs/box	07945823090
KLC	300	300.	KLC300	OKLC300.X	1 pcs/box	07945823091
KLC	350	350.	KLC350	OKLC350.X	1 pcs/box	07945823092
KLC	400	400.	KLC400	OKLC400.X	1 pcs/box	07945823093
KLC	450	450.	KLC450	OKLC450.X	1 pcs/box	07945823095
KLC	500	500.	KLC500	OKLC500.X	1 pcs/box	07945823096
KLC	600	600.	KLC600	OKLC600.X	1 pcs/box	07945823098
KLC	700	700.	KLC700	OKLC700.X	1 pcs/box	07945823101
KLC	800	800.	KLC800	OKLC800.X	1 pcs/box	07945823103

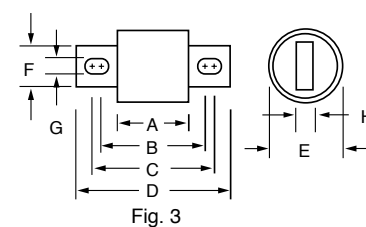
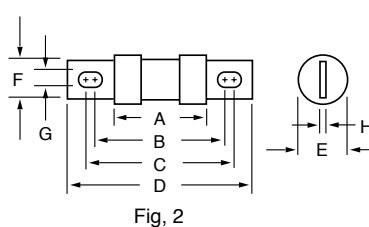
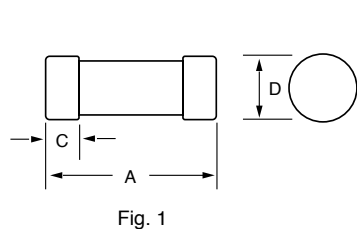
*KLC series fuses are recommended for replacement use only.

POWR-SPEED® Fuses

L60S/KLC SERIES HIGH-SPEED ROUND BODY

Dimensions

AMPERE RATING	FIG. NO.	DIMENSIONS INCHES (MM)							
		A	B	C	D	E	F	G	H
L60S SERIES, 600 V AC									
1 – 30	1	5 (127.0)	—	5⁄8 (15.9)	13⁄16 (20.6)	—	—	—	—
31 – 60	2	2 ²⁵ ⁄32 (70.6)	3 ⁷ ⁄16 (87.3)	3 ¹¹ ⁄16 (93.7)	4 ³ ⁄8 (111.1)	1 ³ ⁄16 (20.6)	2 ⁹ ⁄32 (18.3)	1 ¹ ⁄32 (8.7)	1⁄8 (3.2)
61 – 100	2	2 ²⁹ ⁄32 (73.8)	3 ¹⁷ ⁄32 (89.7)	3 ²⁵ ⁄32 (96.0)	4 ¹⁵ ⁄32 (113.5)	1 ¹ ⁄16 (27.0)	2 ⁹ ⁄32 (18.3)	1 ¹ ⁄32 (8.7)	1⁄8 (3.2)
101 – 200	2	2 ²⁹ ⁄32 (73.8)	3 ⁹ ⁄16 (90.5)	3 ³ ⁄4 (95.3)	4 ¹³ ⁄32 (111.9)	1 ⁵ ⁄16 (33.3)	1 (25.4)	5⁄16 (7.9)	3⁄16 (4.8)
201 – 400	2	2 ²⁹ ⁄32 (73.8)	3 ³¹ ⁄32 (100.8)	4 ⁵ ⁄32 (105.6)	5 ¹ ⁄8 (130.2)	1 ³⁷ ⁄64 (40.1)	1 (25.4)	1 ³ ⁄32 (10.3)	1⁄4 (6.4)
401 – 600	2	2 ⁷ ⁄8 (73.0)	3 ³¹ ⁄32 (100.8)	4 ⁹ ⁄64 (105.2)	5 ¹ ⁄8 (130.2)	2 ¹ ⁄16 (52.8)	1 ¹ ⁄2 (38.1)	1 ³ ⁄32 (10.3)	1⁄4 (6.4)
601 – 800	2	3 ¹ ⁄32 (77.0)	5 ⁵ ⁄32 (133.4)	5 ¹¹ ⁄32 (135.7)	7⁄4 (184.2)	2 ¹ ⁄2 (63.5)	2 (50.8)	1 ⁷ ⁄32 (13.5)	3⁄8 (9.5)
KLC SERIES, 600 V AC									
1 – 30	2	1 ⁷ ⁄8 (47.6)	2 ¹ ⁄2 (63.5)	—	2 ⁷ ⁄8 (73.0)	9⁄16 (14.3)	1 ³ ⁄32 (10.3)	1⁄4 (6.4)	3⁄64 (1.2)
31 – 60	2	2 ³ ⁄4 (69.9)	3 ³ ⁄8 (85.7)	3 ⁵ ⁄8 (92.1)	4 ⁵ ⁄16 (109.5)	1 ³ ⁄16 (20.6)	2 ⁹ ⁄32 (18.3)	1 ¹ ⁄32 (8.7)	1⁄8 (3.2)
61 – 100	3	2 ⁷ ⁄8 (73.0)	3 ²¹ ⁄32 (92.9)	4 ¹ ⁄16 (103.2)	5 (127.0)	1 (25.4)	3⁄4 (19.1)	1 ³ ⁄32 (10.3)	1⁄8 (3.2)
101 – 200	3	2 ²⁷ ⁄32 (72.2)	3 ¹⁷ ⁄32 (89.7)	4 ³ ⁄8 (111.1)	5 ³ ⁄32 (129.4)	1 ¹ ⁄2 (38.1)	1 (25.4)	1 ³ ⁄32 (10.3)	1⁄4 (6.4)
201 – 400	3	2 ²⁷ ⁄32 (72.2)	4 ²¹ ⁄32 (118.3)	4 ²⁷ ⁄32 (123.0)	6 ¹ ⁄4 (158.8)	2 (50.8)	1 ⁵ ⁄8 (41.3)	9⁄16 (14.3)	1⁄4 (6.4)
401 – 800	3	2 ²⁷ ⁄32 (72.2)	4 ²¹ ⁄32 (118.3)	5 ¹¹ ⁄32 (135.7)	6 ¹ ⁄4 (158.8)	2 ¹ ⁄2 (63.5)	2 (50.8)	9⁄16 (14.3)	3⁄8 (9.5)



POWR-SPEED® Fuse Accessories

LSCR SERIES HIGH-SPEED FUSE BLOCKS

700 V/1000 V



Description

Littelfuse LSCR series is a comprehensive line of modular fuse blocks, designed to accommodate a wide range of high-speed and UL power fuses. These LSCR series blocks have modular stud type design that enables easy mounting in panel boards.

LSCR series blocks are CE Certified and RoHS Compliant.

Features/Benefits

- Modular design reduces inventory requirements
- Sold in pairs for convenience
- Supplied with nut and Belleville washer
- 200 kA short-circuit withstand rating
- Constructed of molded phenolic (with plated steel studs) provide greater heat dissipation

Specifications

Voltage Rating	700 V / 1000 V
Ampere Ratings	400 A, 800 A and 1200 A
Withstand Rating	200 kA
Approvals	UL Recognized (File: E14721) cURus Recognized (E14721) CSA Certified (File: 73160)
Material	
Base	Molded phenolic or thermoplastic
Terminal Construction	Plated steel
Flammability Rating	UL 94 V-0
Environmental	RoHS Compliant
Country of Origin	LSCR0xx - China LSCR1xx - USA

Web Resources

For more information, visit: Littelfuse.com/lscr

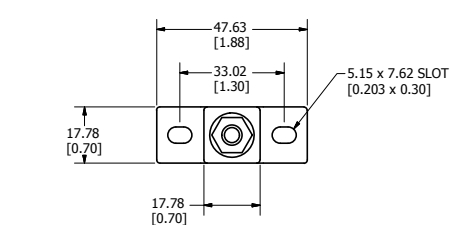
Electrical & Mechanical Specifications

CATALOG/ ORDERING NUMBER	AMPERE RATING	VOLTAGE RATING	TERMINAL (STUD) MATERIAL	INSULATOR		TERMINAL (STUD) SIZE	STUD TORQUE		MOUNTING FASTNER SIZE	FASTENER TORQUE		AGENCY APPROVALS		
				MATERIAL	MAX. BASE TEMPERATURE		(in.lbs)	(N-m)		(in.lbs)	(N-m)	UR	cURus	CSA
LSCR001	400 A	700 V ac/dc	Plated Steel	Molded Phenolic	150 °C (302 °F)	¼–20 UNC	61	6.9	#10	20–25	2.3–2.8	•		•
LSCR002	800 A	700 V ac/dc	Plated Steel	Molded Phenolic	150 °C (302 °F)	¾–16 UNC	192	21.7	#10	20–25	2.3–2.8	•		•
LSCR101	400 A	1000 V ac/dc	Steel, Zinc Plated	Thermoplastic	125 °C (257 °F)	¼–20 UNC	75	8.5	#10	25–30	2.8–3.4		•	
LSCR102	800 A	1000 V ac/dc	Steel, Zinc Plated	Thermoplastic	125 °C (257 °F)	¾–16 UNC	230	26	#10	25–30	2.8–3.4		•	
LSCR103	1200 A	1000 V ac/dc	Steel, Zinc Plated	Thermoplastic	125 °C (257 °F)	½–13 UNC	300	34	¼"	25–30	2.8–3.4		•	

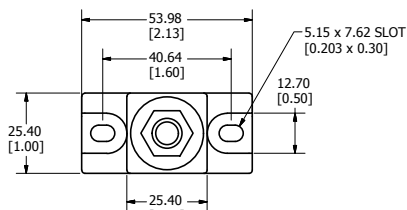
POWR-SPEED® Fuse Accessories

LSCR SERIES HIGH-SPEED FUSE BLOCKS

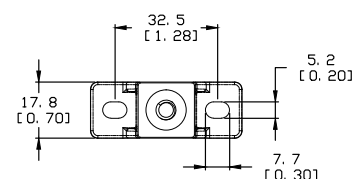
Dimensions mm (inches)



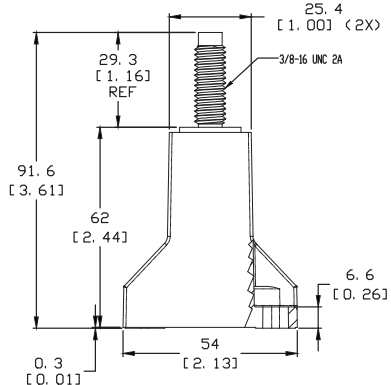
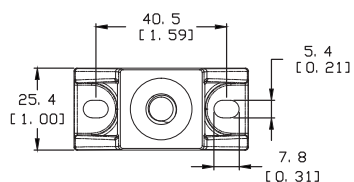
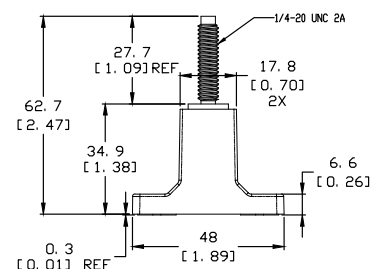
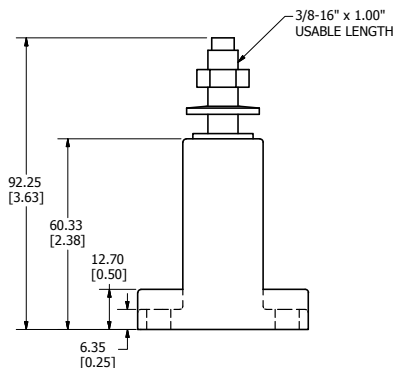
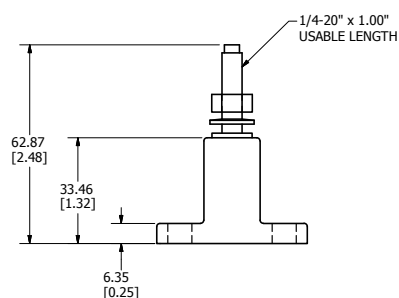
LSCR001



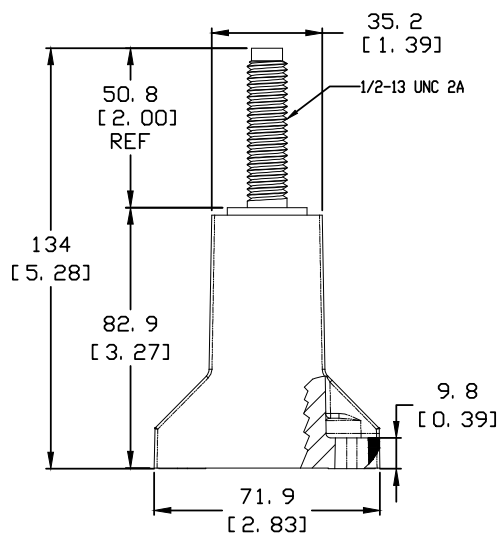
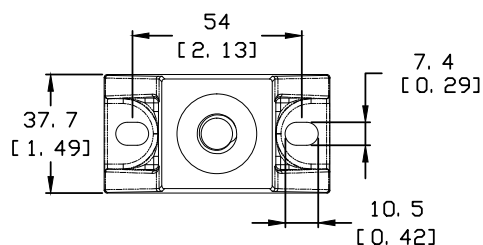
LSCR002



LSCR101



LSCR102



LSCR103

POWR-SPEED® Fuse Accessories

LSCR SERIES HIGH-SPEED FUSE BLOCKS

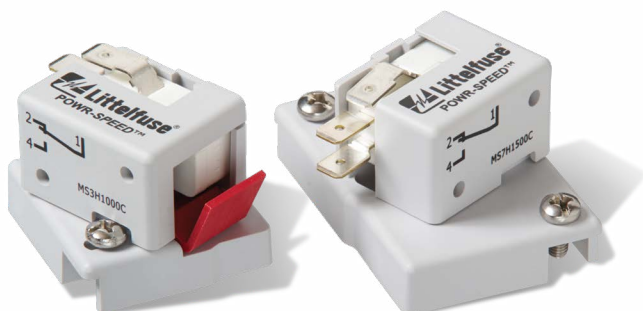
High-Speed Fuse Block Selection Guide

FUSE SERIES	CATALOG NUMBER	LSCR001	LSCR002	LSCR101	LSCR102	LSCR103
	TERMINAL SIZE	1/4-20 UNC	3/8-16 UNC	1/4-20 UNC	3/8-16 UNC	1/2-13 UNC
	VOLTAGE RATING	700 V ac/dc	700 V ac/dc	1000 V ac/dc	1000 V ac/dc	1000 V ac/dc
	AMPERE RATING	400 A	800 A	400 A	800 A	1200 A
L15S	70-400	X		X		
	500-800		X		X	
L17T	70-250	X		X		
	300-800		X		X	
L25S	35-200	X		X		
	225-800		X		X	
L50S	35-200	X		X		
	225-800		X		X	
	700-800					X
L50QS	35-200	X		X		
	225-800		X		X	
	700-800					X
L60S	35-200	X		X		
	225-800		X		X	
	700-800					X
KLC	35-60	X		X		
	70-800		X		X	
	225-800					X
L70S	35-100	X		X		
	125-800		X		X	
	450-800					X
L70QS	35-100	X		X		
	125-800		X		X	
	450-800					X
JLLN	70-200	X		X		
	225-800		X		X	
	700-1200					X
JLLS	70-200	X		X		
	225-800		X		X	
	700-1200					X
JLS	70-100	X		X		
	110-200	X		X		
	225-400		X		X	
	450-600		X		X	
SPFJ	70-100			X		
	125-200			X		
	250-400				X	
	450					X
L75QS	35-100			X		
	125-800				X	
	450-800					X

POWR-SPEED® Fuse Accessories

MS SERIES HIGH-SPEED FUSE MICROSWITCH

1000C Contact Insulation Voltage (1000, 1500)



Description

Littelfuse MS series external mount microswitches offer permanent blown fuse indication to PSR series high-speed square-body semiconductor fuses. They have one normally open (N.O.) and one normally closed (N.C.) contact rated for 4 A, 250 V ac.

These microswitches have a visual red flap or arm indicator that releases after fuse blown condition and can also be used for resetting the microswitch contacts.

Features/Benefits

- Available in two sizes to fit PSR series fuse case sizes 30–33 and 70–73
- Internal microswitch UL Listed
- Red flap visual indicator and contact reset mechanism
- Minimum positive operating voltage and current at 4 V / 1 mA

Specifications

Voltage Rating	See Electrical Characteristics table
Amperage Rating	See Electrical Characteristics table
Interrupting Rating	See Electrical Characteristics table
	-60 °C to +125 °C
Relative Humidity	95 %
Contact	Silver-nickel plated brass
Approvals	Internal microswitch part number: U83161.8, Listed under UL File: E42016
Flammability	UL 94 V2
Environmental	RoHS Compliant
Country of Origin	China

Ordering Information

SERIES	FUSE CASE SIZE	CONTACT INSULATION VOLTAGE	CATALOG NUMBER	ORDERING NUMBER
MS	30–33	1000C	MS3H1000C	MS3H1000C
MS	70–73	1000C	MS7H1500C	MS7H1500C

Electrical Characteristics

CATALOG NUMBER / ORDERING NUMBER	INDICATING STYLE	INSULATION VOLTAGE RATING (V AC)	FUSE CASE SIZE	POSITIVE OPERATING MIN VOLTAGE / MIN CURRENT	INTERRUPTING RATING						OPERATING TEMP	RELATIVE HUMIDITY	PACK QUANTITY	
					CURRENT	NON-INDUCTIVE LOAD			INDUCTIVE LOAD (DC L / R=25MS)					
						30 V	110 V	250 V	30 V	110 V				250 V
MS3H1000C*	Standard NO-NC	1000	30, 31, 32, 33	4 V / 1 mA	ac (50/60 Hz)	5 A	5 A	5 A	5 A	5 A	4 A	-60 °C to +125 °C	95 %	3 pcs/bag
					dc	5 A	0.6 A	0.3 A	3 A	0.2 A	0.1 A			
MS7H1500C*	Standard NO-NC	1500	70, 71, 72, 73		ac (50/60 Hz)	5 A	5 A	5 A	5 A	5 A	4 A	-60 °C to +125 °C	95 %	3 pcs/bag
					dc	5 A	0.6 A	0.3 A	3 A	0.2 A	0.1 A			

* Contains internal microswitch (part number: U83161.8), Listed under UL File: E42016.

Special Purpose Fuses – Telecommunications

L17T SERIES FUSES

170 V dc • Current-Limiting • 70–1200 A



Description

Specifically designed for short-circuit protection of telecommunications circuits, the Littelfuse L17T series fuses provide reliable protection of sensitive dc power distribution systems. Constructed with silver plated elements for low I^2t and peak let-through, these advanced fuses virtually eliminate equipment damage due to surges and spikes. The L17T series fuse unique element geometry also provides cooler running temperatures, helping to minimize heat within enclosures.

Features

- Low I^2t
- Extremely current-limiting
- Low operating temperature
- 170 V dc rating

Specifications

Voltage Rating	170 V dc
Interrupting Rating	100 kA
Ampere Range	70–1200 A
Approvals	UL Recognized (File: E71611) CSA Recognized (File: LR29862)

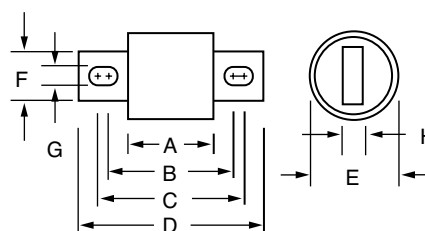
Ordering Information

AMPERE RATINGS						
70	125	200	300	450	800	1100
90	150	225	350	500	900	1200
100	175	250	400	600	1000	—

SERIES	VOLTAGE	AMPERAGE	CATALOG NUMBER	ORDERING NUMBER
L17T	170	1200	L17T 1200	L17T1200V

Dimensions Inches (mm)

AMPERE RATING	DIMENSIONS INCHES (mm)							
	A	B	C	D	E	F	G	H
70–250	1 5/32 (29.4)	1 7/8 (47.6)	2 3/16 (55.6)	2 21/32 (67.5)	1 (25.4)	7/8 (22.2)	0.327 (8.3)	3/16 (4.8)
300–800	1 1/4 (31.8)	1 15/16 (49.2)	2 9/16 (65.1)	3 1/2 (88.9)	1 1/2 (38.1)	1 (25.4)	13/32 (10.3)	1/4 (6.35)
900–1200	1 11/32 (34.0)	—	—	4 1/16 (103.1)	—	1 1/2 (38.1)	—	1/4 (6.35)



Recommended Fuse Holders

LTFD 6001 and LTFD 1200 series, visit: Littelfuse.com/lbfd

Web Resources

For additional information, visit: Littelfuse.com/l17t

Special Purpose Fuses – Telecommunications

TLS SERIES FUSES

170 V dc • Current-Limiting • 1–125 A



Description

Littelfuse TLS series fuses are designed specifically for the protection of telecommunications equipment. TLS fuses have been engineered to operate up to 170 V dc to provide current-limiting short-circuit protection for cables and components found in the dc power distribution circuits of telecommunications systems. The compact design and multiple mounting configurations of the TLS series allow it to be used in a variety of applications.

Features

- 170 V dc rating
- Current-limiting
- 1–125 amperes rating
- Multiple mounting configurations — cartridge, vertical, leaded, bolt-in, or solder type. See dimensions on the following two pages for mounting style details.
- RoHS Compliant

Recommended Fuse Holders

- LFTD series disconnect switches
 - LFT30060 for TLS series cartridge style fuse
- Contact factory for more information.

Web Resources

For additional information, visit: Littelfuse.com/tls

Specifications

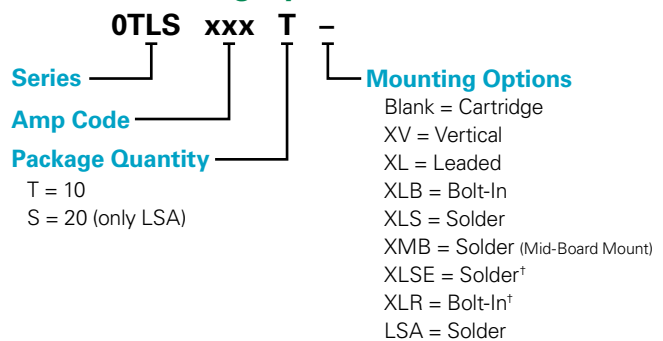
Voltage Rating	170 V dc
Ampere Range	1–125 amperes
Interrupting Rating	100 kA
Approvals	UL Recognized (File: E71611)
Construction	Body: glass melamine Caps: silver-plated brass
Environmental	RoHS Compliant, lead (Pb) free

Ordering Information

AMPERE RATINGS				
1	6	25	50	90
2	10	30	60	100
3	15	35	70	110*
5	20	40	80	125*

*Available in standard cartridge, LSE solder, and LR bolt-in.

Part Numbering System



SERIES	AMPERE	MOUNTING METHOD	MOUNTING SUFFIX	CATALOG NUMBER	ORDERING NUMBER	FUSE LABEL ID
TLS	6	Cartridge	—	TLS006	OTLS006.T	TLS 6A
TLS	15	Vertical	V	TLS015V	OTLS015.TXV	TLS 15A-V
TLS	35	Leaded	L	TLS035L	OTLS035.TXL	TLS 35A-L
TLS	50	Bolt-In	LB	TLS050LB	OTLS050.TXLB	TLS 50A-LB
TLS	80	Solder	LS	TLS080LS	OTLS080.TXLS	TLS 80A-LS
TLS	100	Solder	MB	TLS100MB	OTLS100.TXMB	TLS 100A-MB
TLS	125	Solder	LSE	TLS125LSE	OTLS125.TXLSE	TLS 125A-LSE
TLS	125	Bolt-In	LR	TLS125LR	OTLS125.TXLR	TLS 125A-LR
TLS	30	Solder	LSA	TLS030LSA	OTLS030.SLSA	TLS 30A-LSA

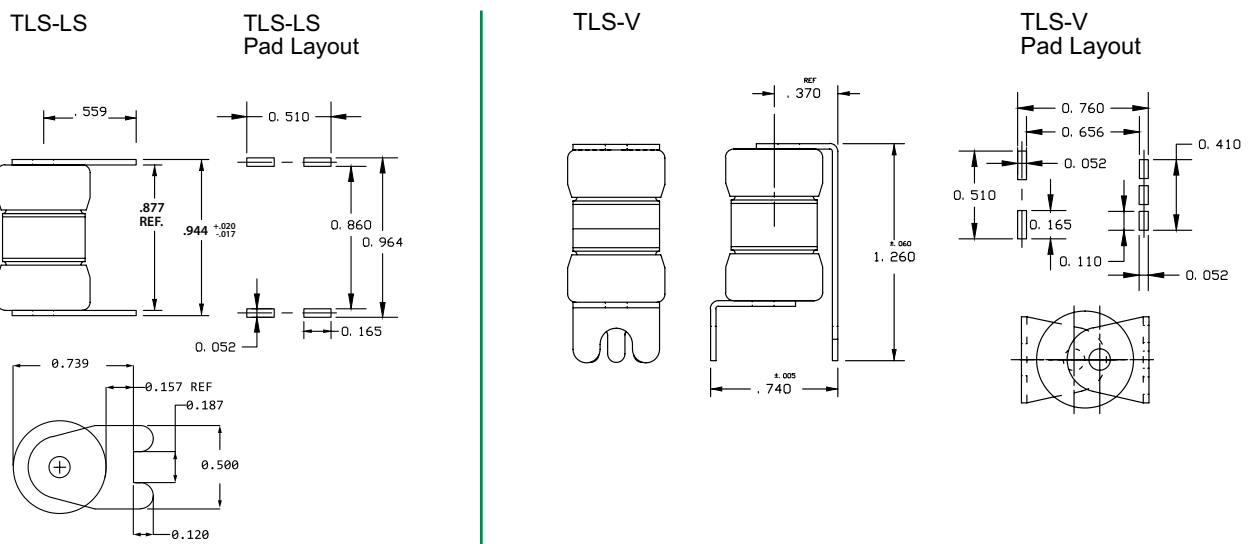
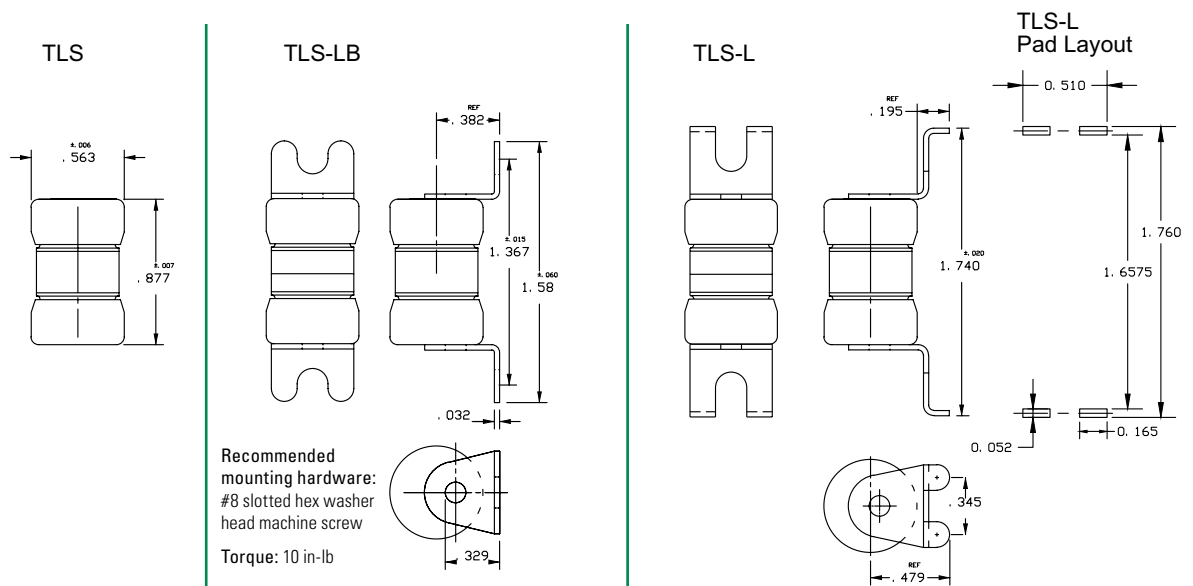
†Option is available for 35 to 125 amperage only

Special Purpose Fuses – Telecommunications

TLS SERIES FUSES

Dimensions

Inches



Dimensions

Inches

Technical drawing of the TLS-MB Pad Layout, showing side and top views with dimensions.

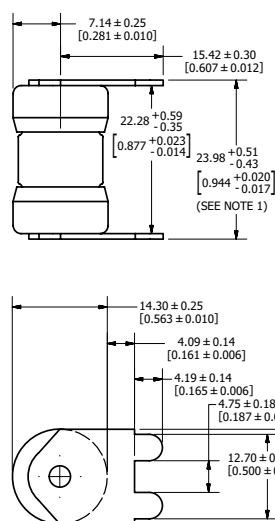
Side View Dimensions:

- Overall height: $1.74 \pm .030$
- Distance from base to top of the main body: 1.6575
- Distance from base to the top of the upper section: 1.760
- Distance from the left edge of the base to the center of the main body: 0.282 ± 0.010

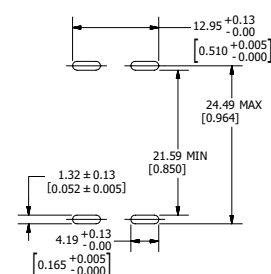
Top View Dimensions:

- Distance from the center of the main body to the center of the upper section: $.345$
- Distance from the center of the main body to the center of the lower section: $.379 \pm .015$
- Distance from the center of the main body to the center of the upper section (horizontal): $.052$
- Distance from the center of the main body to the center of the lower section (horizontal): $.165$
- Distance from the center of the main body to the center of the upper section (horizontal): $.510$

TLS-LSE
Dimensions are mm (in)

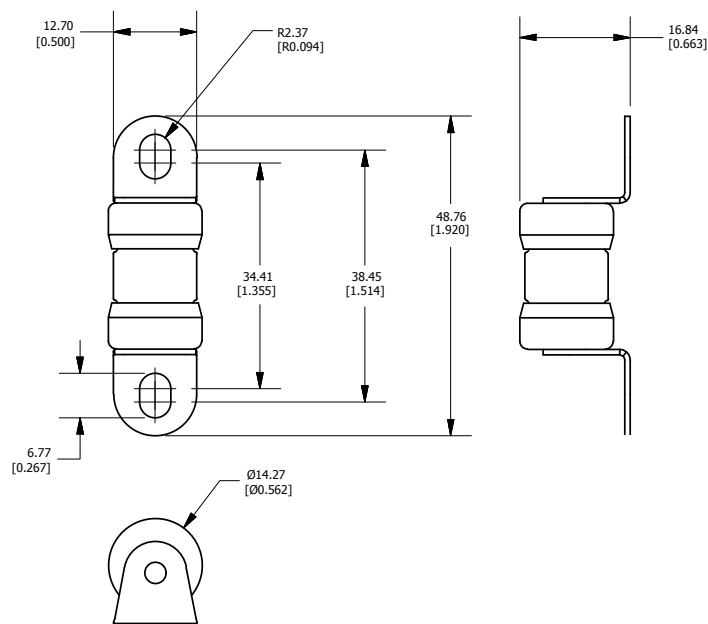


TLS-LSE Pad Layout

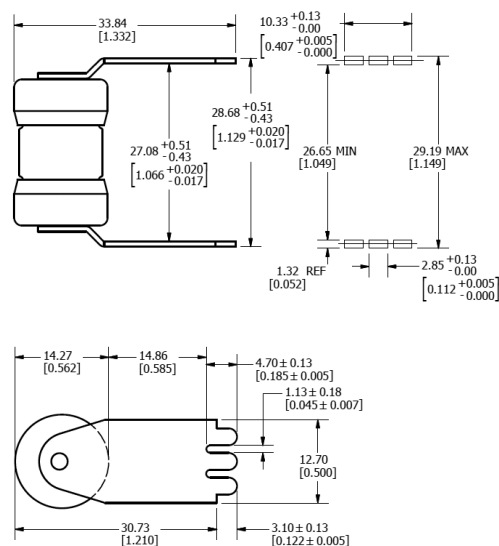


Note 1: Measurement taken at end of terminals

TLS-LR
Dimensions are mm (in)



TLS-LSA
Dimensions are mm (in)



POWR-SPEED® Fuse

CROSS REFERENCE GUIDE



This guide covers the most popular high-speed fuse types that Littelfuse has in stock and ready to ship. The cross reference is meant to serve as a guide for quick identification and product selection. We suggest you check all applicable specifications before making substitutions.

COMPETITOR	LITTELFUSE	COMPETITOR	LITTELFUSE	COMPETITOR	LITTELFUSE
170M	PSR	A60X	L60S	PSC	PSR
A_UD	PSR	A70P	L70QS	RFA	L15S
A013F	L15S	A70QS	L70QS	RFC	KLC
A015F	L15S	CHSF	L50QS	RFL (750 V)	L70S (700 V)
A015R	L15S	FWA	L15S † §	RFV	L50S
A025F	L25S	FWH	L50QS	SF13X	L15S
A050F	L50S	FWP	L70QS	SF25X	L25S
A060F	L60S	FWX	L25S * †	SF50P	L50S
A070F	L70S	KAA	L15S	SF60X	L60S
A13X	L15S	KAB	L25S	SF70P	L70S
A25X	L25S †	KAC	KLC	XL25X	L25S
A50P (type 1 & 4)	L50QS	KBH	L50S	XL50F	L50S *
A50QS	L50QS	PC_UD	PSR	XL70F	L70S *

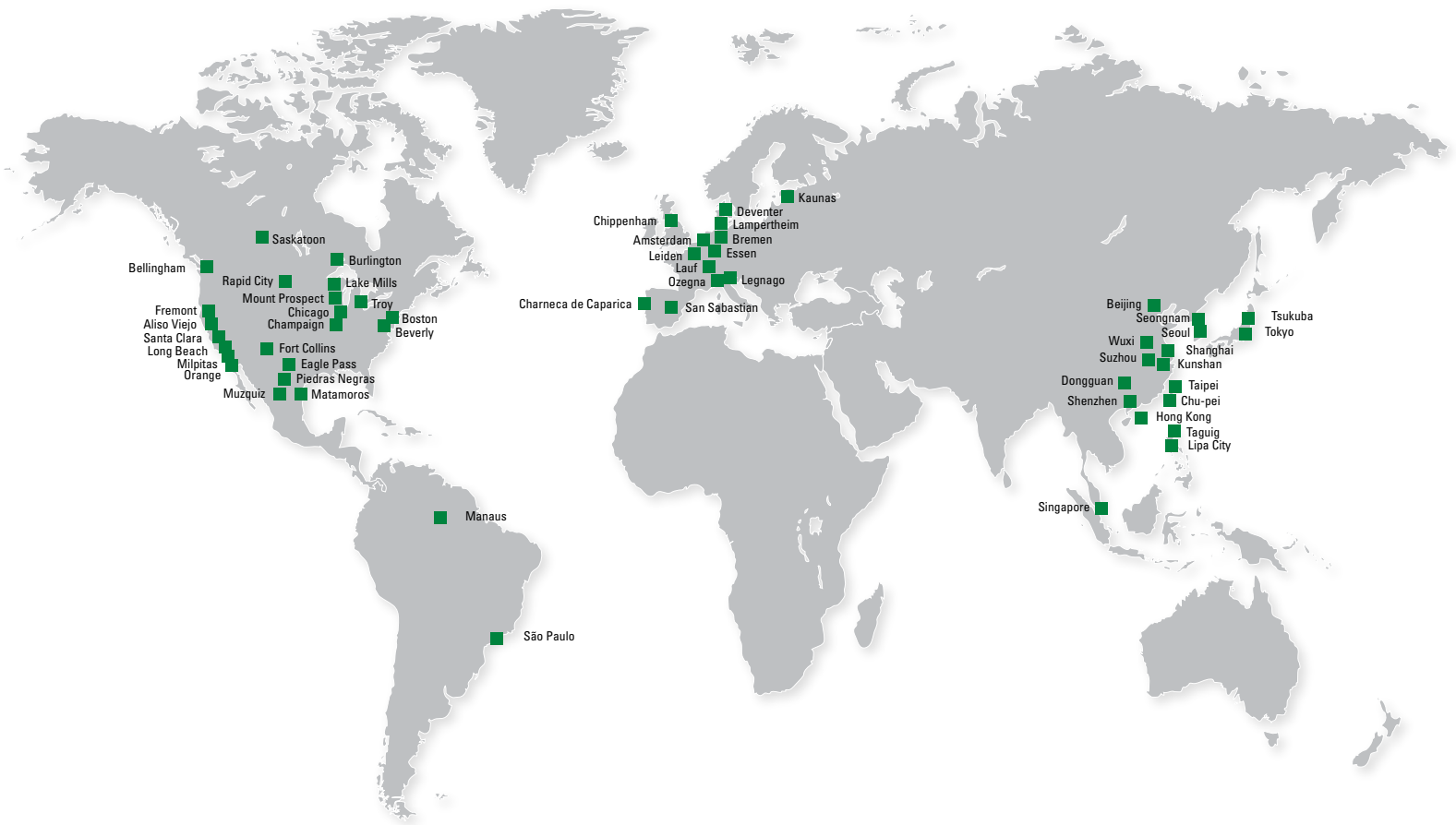
* Check specific mounting dimensions before substituting.

† Check characteristics and dimensions for application before substituting.

§ Verify voltage for dc applications.

For more information or a complete listing of high-speed fuses offered visit Littelfuse.com/POWR-SPEED or call 1-800-TEC-FUSE.

Local Resources for a **GLOBAL** Market



Protection Relays & Controls Catalog (PF130N)

The comprehensive line of electronic and microprocessor-based protection relays safeguard equipment and personnel to prevent expensive damage, downtime or injury due to electrical faults.



Fuses and Fuse Holders Catalog (PF101N)

Littelfuse offers a complete circuit protection portfolio of industrial power fuses, including time-saving indication products for an instant visual blown-fuse identification.



POWR-GARD® Solar Catalog (PF140N)

POWR-GARD® Solar Products are designed specifically for photovoltaic applications where issues such as heat, efficiency, longevity and global standards impact the choices in selecting circuit protection.

To view all Littelfuse product catalogs, visit our website at littelfuse.com/Catalogs

Visit Technical Resources at Littelfuse.com

Technical information is only a click away. The Littelfuse Technical Resources contains datasheets, product manuals, whitepapers, application guides, demos, on-line design tools, and more.

An Extension of Your Team

Technical Hotline (800-TEC-FUSE or 800-832-3873)

Littelfuse engineers are a phone call away to help identify potential issues and provide product recommendations to resolve problems.

Application and Field Support

Our experienced product and application engineers work step-by-step with customers from design to installation to determine the best solution.



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