POWR-GARD® Fuse Datasheet

LVSP Surge Suppression Fuse

600 V ac • 5–100 kA 8/20 µs

Description

The Littelfuse Varistor Protection (LVSP) Fuses are intended for the protection of TVSS products. The LVSP series has been designed to survive 8/20 µs lightning surges without opening. This allows the TVSS to perform the necessary suppression. The LVSP is not rated for continuous current and the ratings are specific 8/20 µs surge capability.
The LVSP series can be used to facilitate TVSS module compliance to UL 1449 in permanently connected applications (abnormal overvoltage, unlimited current conditions).

Features/Benefits

- Very current limiting under AC short-circuit conditions
- Available in multiple mounting configurations (cartridge, bolt-in, PC board mount)
- Provides short circuit protection in TVSS systems and complements the Littelfuse line of overvoltage products (HA, HB34, TMOV® and iTMOV® varistors as well as the AK-10 series TVS diodes)

Applications

- TVSS products
- Surge Protective Devices

Specifications

Voltage Rating	600 V ac
Interrupting Rating	200 kA
Surge Withstand Rating	5–100 kA 8/20 µs surge withstand
Approvals	UL Recognized (File: E71611)
Environmental	RoHS Compliant
Applicable Standards	UL 248-1

Recommended Fuse Blocks

LVSP (5-20)-2
L60030M (open block) • LPSM (dead front)

LVSP (30-80)-2
LFJ60030 (open block) • LFPSJ30 (dead front)

LVSP (100)
LFJ60100 (open block)

Web Resources

Download other technical information:
littelfuse.com/LVSP

Electrical Specifications

SURGE RATING (KA 8/20 µs)	RATING CODE	VOLTAGE RATING (V)	INTERRUPT RATING (KA)	CARTRIDGE		LEADED		BOLT-IN		NOMINAL MELTING I²T (A²S)	NOMINAL CLEARING I²T (A²S)	Ipeak@100 kA 60 Hz (A)
				CATALOG NUMBER	ORDERING NUMBER	CATALOG NUMBER	ORDERING NUMBER	CATALOG NUMBER	ORDERING NUMBER			
5	0005	600	200	LVSP5-2	LVSP0005TX2	LVSP5-R	LVSP0005TXR	–	–	359	981	3,700
10	0010	600	200	LVSP10-2	LVSP0010TX2	LVSP10-R	LVSP0010TXR	–	–	1,300	3,210	5,823
15	0015	600	200	LVSP15-2	LVSP0015TX2	LVSP15-R	LVSP0015TXR	–	–	3,267	6,235	7,765
20	0020	600	200	LVSP20-2	LVSP0020TX2	LVSP20-R	LVSP0020TXR	–	–	4,940	11,710	8,135
30	0030	600	200	LVSP30-2	LVSP0030TX2	–	–	LVSP30	LVSP0030T	11,950	35,325	12,478
40	0040	600	200	LVSP40-2	LVSP0040TX2	–	–	LVSP40	LVSP0040T	20,550	61,700	15,250
60	0060	600	200	LVSP60-2	LVSP0060TX2	–	–	LVSP60	LVSP0060T	39,240	145,555	19,604
80	0080	600	200	LVSP80-2	LVSP0080TX2	–	–	LVSP80	LVSP0080T	75,000	254,000	24,600
100	0100	600	200	–	–	–	–	LVSP100-L	LVSP0100VXL	160,747	413,000	36,600

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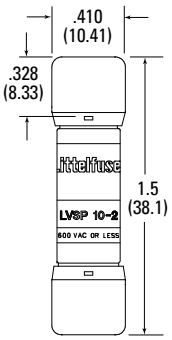
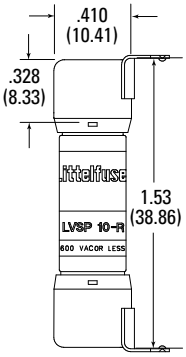
Dimensions Inches (mm)

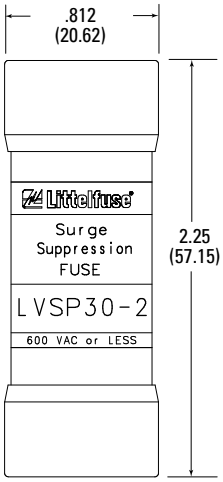
Cartridge 5-20 kA



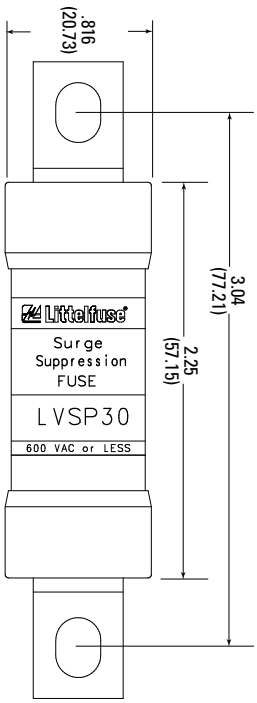
Leaded 5-20 kA



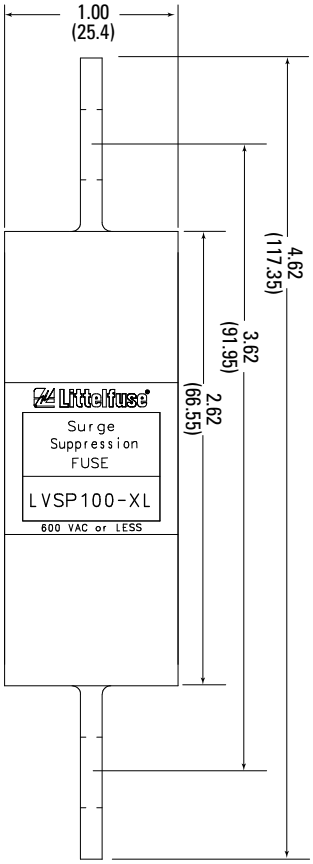
Cartridge 30-80 kA



Bolt-In 30-80 kA



Bolt-In 100 kA



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