



The **Hatch Family of Surge Protection Devices (SPDs)** is designed to meet the needs of the lighting industry. All designs are parallel-type SPDs and are UL Recognized to UL1449. The products offer several protection levels and form factors to provide flexibility to incorporate surge protection in fixtures protecting LED drivers, ballasts, sensors, controls and IoT modules. All Hatch SPD's are UL approved for factory installation and field replacement.

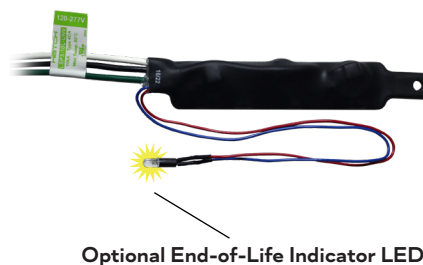
## APPROVALS



UL Recognized to UL1449

## LSP3 FAMILY

Hatch's LSP3 family of surge protectors offer 10kA and 20kA protection in models available from 120V-277V and 347V-480V. These Type 4CA surge protectors feature integrated thermal protection and feature an optional End-of-Life Indicator LED. The End-of-Life Indicator LED monitors the protection status for the line-ground, line-neutral, and neutral-ground connections. When a fixture is serviced, an electrician can easily see that the surge protector is still providing peace of mind protection. The surge ratings conform to IEEE C62.41.2-2002 Category C Exposure recommendations and tested according to the requirements in ANSI C82.77 Category C Exposure for medium exposure levels (10kA) and high exposure levels (20kA).



## LSP4 FAMILY

Hatch's LSP4 surge protectors offer a compact design to fit in almost any lighting application. These Type 5 SPDs are IP65 rated and available in two versions corresponding to the required line voltage, 120V-277V or 347V-480V. Each offers 20kA differential-mode and 10kA common-mode protection for line-neutral, line-ground, and neutral-ground in single phase connections. The surge ratings conform to IEEE C62.41.2-2002 Category C High Exposure recommendations and tested according to the requirements in ANSI C82.77 Category C Medium Exposure level for lighting equipment.



## LSP10-SM

Hatch's LSP10-SM is a perfect solution when integrating surge protection into a recessed fixture, highbay, lowbay, or linear where the fixture incorporates a junction box with a tight wiring compartment. With the unique **SNAPLOCK Mounting** design, LSP10-SM can be snapped into a knockout to free up the wiring box for wiring connections. Just like all Hatch SPDs, the LSP10-SM surge ratings conform to IEEE C62.41.2-2002 Category C High Exposure recommendations and are tested according to the requirements in ANSI C82.77 Category C Medium Exposure level for lighting equipment. The LSP10-SM provides 10kA, 120V-277V single phase protection for line-neutral, line-ground, and neutral-ground and is classified as a Type 4CA SPD.



SNAPLOCK™

## SPECIFICATIONS

Model Number	LSP10-SM	LSP4-UNV	LSP4-480	LSP3-10-UNV LSP3-10L-UNV*	LSP3-20-UNV LSP3-20L-UNV*	LSP3-20-480 LSP3-20L-480*
Input Voltage	120-277V	120-277V	347-480V	120-277V	120-277V	347-480V
Maximum Continuous Voltage	320V	320V	550V	385V	385V	550V
Pulse Rating (8 x 20 $\mu$ Sec)	10kA	**10kA	**10kA	10kA	20kA	20kA
Nominal Discharge Current	5kA	5kA	5kA	5kA	10kA	10kA
Thermal Protection	✓			✓	✓	✓
Field Wiring	✓	✓	✓	✓	✓	✓
UL Type	4CA	5	5	4CA	4CA	4CA

\* Models with End-of-Life Indicator LED.

\*\* Line-Neutral Pulse Rating 20kA

## IEEE 62.41 PULSE RATINGS

### LSP10-SM, LSP3-10-UNV

Pulse Rating (8 x 20 $\mu$ Sec)	
Surge Level	# of Strikes L-N, L-G, N-G
10,000A	1
7,500A	2
5,000A	15
2,000A	100
700A	1000

### LSP4-UNV, LSP4-480

Pulse Rating (8 x 20 $\mu$ Sec)		
Surge Level	# of Strikes	
	*L-N	L-G, N-G
10,000A	*2	1
6,500A	4	2
5,000A	30	15
2,000A	200	100
700A	2000	1000

### LSP3-20-UNV, LSP3-20-480

Pulse Rating (8 x 20 $\mu$ Sec)	
Surge Level	# of Strikes L-N, L-G, N-G
20,000A	1
15,000A	2
10,000A	15
4,000A	100
1,400A	1000

\* 1 strike at 20,000A

## WIRING DIAGRAM

