

## LS-series

## SURGE DIVERTER

### Power Line Surge Protector



LS Surge Diverter

- AC surge protector for single and three phase system
- Easy installation for MDB and load center location
- Parallel installation with main power system
- No effect to load or main power
- All TVSS protection mode ; Line-Line, Line-Neutral, Line-Earth, Neutral-Earth
- LED protected status and replaced indicator
- Remote alarm contact
- Low let-through voltage less than 600 Volt
- Surge capability I<sub>max</sub> = 20 kA, 40 kA (8/20 μs)
- High MCOV 280 Vac
- Fuse breakers / Circuit breakers are available only in surge diverter with enclosure model
- Accordance with ANSI/IEEE C62.41, ANSI/IEEE C62.42 and IEC 61643-1 standards



LS Surge Diverter with Enclosure

LS-series Surge Diverters provide high energy surge diversion for protection against power surge caused by external sources as lightning strikes and substation switching. LS-series Surge Diverter is designed for mounting at point-of-entry / service entrance, main switchboard or distribution board, sub-distribution board for preventing damage to switchboards and your equipments. Protection and replacement status are indicated by LED indicators. And remote alarm contact provide dry contact signal to allow remote status monitoring.

### Applications

- Industrial power utility
- Telecommunication system
- Process and control system
- Computer network / IT system
- UPS system
- Security system
- Medical system

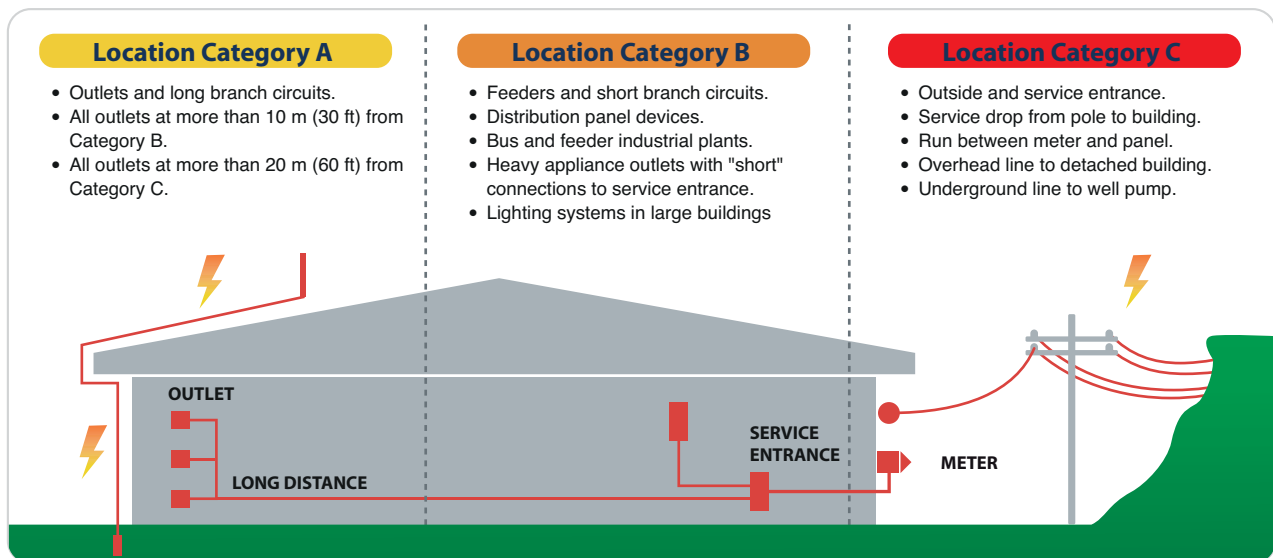


Sample of inside enclosure

**TVSS** ⚡

<b>SURGE DIVERTER</b>		<b>LS-211C</b>	<b>LS-411-C</b>	<b>LS-231C</b>	<b>LS-431C</b>
<b>SURGE DIVERTER WITH ENCLOSURE</b>		<b>LS-211C-ENCL</b>	<b>LS-411C-ENCL</b>	<b>LS-231C-ENCL</b>	<b>LS-431C-ENCL</b>
ELECTRICAL SYSTEM		Single phase (2 wire + earth)		Three phase (3 wire + neutral + earth)	
NOMINAL VOLTAGE		220 Vac or 240 Vac		380 Vac or 415 Vac	
FREQUENCY RANGE		45 - 65 Hz		45 - 65 Hz	
PROTECTION MODE		L-N, L-E, N-E		L-L, L-N, L-E, N-E	
APPLICATION RANGE	MCOV	180 - 280 Vac		310 - 480 Vac	
LET THROUGH VOLTAGE		600 V		600 V	
SURGE ENERGY DISSIPATION		1560 joules	3080 joules	3 x 1560 joules	3 x 3080 joules
SURGE CAPABILITY (I <sub>max</sub> )	8/20 μs wave form	20 kA	40 kA	20 kA / phase	40 kA / phase
LEAKAGE CURRENT	Phase to earth	<60 μA	<120 μA	<200 μA	<400 μA
TRANSIENT RESPONSE TIME		less than 25 ns			
LOCATION CATEGORY		A1, A2, A3, B1, B2, B3, C1, C2			
DESIGN REGULATION	TVSS standard	ANSI/IEEE C62.41, ANSI/IEEE C62.42, IEC 61643-1			
INDICATOR LIGHT	Surge diverter	TVSS Protected (green), Replaced (red)			
	Enclosure	Power line indicator (green), Alarm (red)			
REMOTE ALARM	Dry contact	yes			
SAFETY ISOLATION	Fuse breaker / Circuit breaker	available only in surge diverter with enclosure (LS-xxxC-ENCL model)			
OPERATION CONDITION	Ambient temp.	-40°C to 60°C			
	Relative humidity	0 - 95% (non-condensing)			
DIMENSIONS (W x H x D in mm.)	Surge diverter	38 x 215 x 82	44 x 251 x 106	120 x 270 x 120	120 x 270 x 120
	Enclosure	200 x 300 x 120	200 x 300 x 120	260 x 350 x 160	260 x 350 x 160
WEIGHT (Approx. in kg)	Surge diverter	0.7	1.0	2.1	3.0
	Surge diverter with enclosure	3.0	3.2	6.5	7.5

Continuous product development is our commitment. In that manner, the above specifications may be changed without prior notice.



Authorized Distributor

LEO ELECTRONICS CO.,LTD.

27, 29 Soi Bangna-Trad Rd 34, Bangna Tai, Bangna, Bangkok 10260 THAILAND  
Tel. 0-2746-9500, 0-27468708 Fax. 0-2746-8712 e-mail : global\_business@leonics.com

▪ www.leonics.com ▪

Authorized Dealer