

TECHNICAL DATA SHEET MEDIUM CURRENT POWER SURGE FILTER

LSF Medium Current Surge Filter



Single Phase Filter Shown

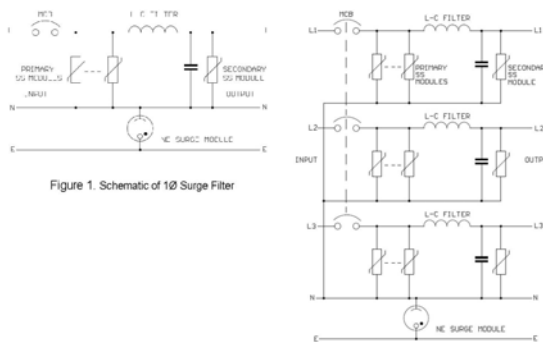


Figure 1. Schematic of 1Ø Surge Filter

Product Description:

The LDU LSF surge filter provides multiple stage protection against incoming surges & transients and shall be installed in series with the incoming 110-220Vac single phase (Phase – Neutral) mains power supply to the equipment or building. Shunt-only clamping alone is not sufficient, as it does not limit the excessive wave-front characteristic of the pre-clamped waveform. The Surge Filter will reduce the rate of rise of voltage (dv/dt) to below 15V/μs as per AS1768 Cat B 3kA (8/20μs) applied impulse and to below 30V/μs for AS 1768 Cat C 20kA (8/20μs) applied impulse.

Features:

- High performance surge protector for an operating voltage of 110 -220Vac
- Designed to withstand fault and over-voltage conditions up to 275Vac
- Three stage protection provides highest level of protection for sensitive electronic equipment
- Status and power indication
- Full multimode protection (multimode)
- Long service life

Electrical Specification:		LSF132-50	LSF163-50	LSF332-50	LSF363-50
Connection Type:		Series			
Phases:		Single		Three	
Nominal Input Voltage: per phase	U ₀	230Vac / 50Hz			
Maximum Continuous Voltage: per phase	U _C	274Vac / 50hZ			
Clamping Voltage (A-N / N-E):	V _c	274VAC			
Peak Let-through Voltage (3KA A-N):		274VAC			
Maximum Load Current:	I _L	32A	63A	32A	63A
Energy Absorption (8.20us A-N)/8/20us N-E):		2200J			
Modes of Protection:		All Mode (L-N, L-E, N-E), Common and Transverse			
Inductor:		Non-saturating, Low Pass, Power and Noise Filtering			
Capacitor Type:		Self Healing Metal Film			
Primary Surge Protection (per mode):	I _{MAX}	50KA – Upgradable to 100KA or 150KA			
N-E Protection:		100KA			
Response time:	t _A	<5ns			
Cut-off Frequency (-3db @ full load):		<1KHz			
Attenuation (@ full load):		> 60 dB @ 1MHz			
Earth leakage current:		<1mA			
Display:		Status Indication and remote alarm contact			
Overload/Short Circuit Protection – Cct Bkr		32A	63A	32A	63A
Alarms		Voltage Free Contacts			
Standards		IEC 61643-1, Meets UL1449 Ed 3 Requirements			
Mechanical Specifications:					
Connection Type:		Screw terminal			
Terminal capacity:		Up to 35mm2			
IP index:		IP 55			
Mounting:		Wall			
Width:		200mm		400	
Height (with terminals connected):		300mm			
Depth:		150mm			
Weight: - Kg		7		14	
Warranty:		5 Year Manufacturers Warranty			