

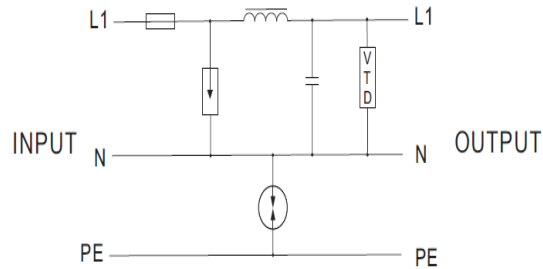
Single Phase 63A/125A

Class I+II

BSF100-1/...-63A-PN-VTD-S



Product Picture for Reference Only

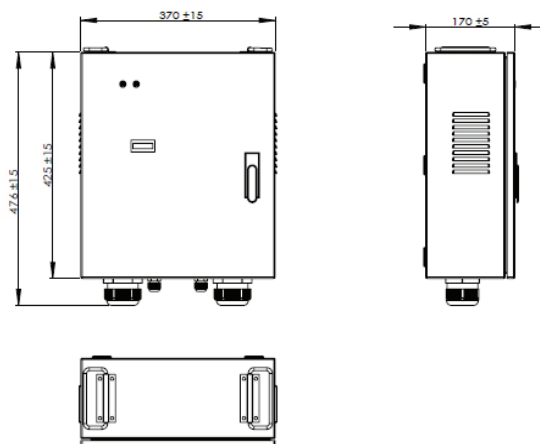


Basic circuit diagram

Features

- Multi-stage protection circuit with LC Filter design to protect sensitive electronics
- Provides extensive high frequency & RF filtering
- Prosurge ESG+VTD technology to further improve voltage clamping performance
- Application for 120~127V, 220~277V (L-N) TT/TN, or any single phase system with a grounded neutral
- Surge capacity: 25 kA 10/350 μ s or 100kA 8/20 μ s (per mode)
- Surge capacity of N-PE mode up to 100kA 10/350 μ s
- Load current rating 63A. 125A is available
- Built-in in series fuse for overload /short circuit protection available
- All mode protection, 1+1 protection circuit for TN-S and TT systems
- LED failure indication & remote alarm function available
- Stainless steel enclosure, wall mounting
- Surge counter optional

Dimension Drawing



Technical Data

Model			BSF100-1/180-63A-PN-VTD-S	BSF100-1/320-63A-PN-VTD-S
Compliance			IEC61643-11; UL1449 4 th ; IEC61000-6; ANSI/IEEE C62.41; AS1768-1991; AS3100	
Category IEC/EN/UL			Class I+II / Type 1+2 / Type 2	
Ports/Protection Mode			All mode protection	
Protection Technology			ESG(primary)+ VTD(secondary) technology GDT technology for NPE mode LC filter Thermal disconnecter Built-in over-current protection	
Power System		U_n	120~127V single phase	220-277V single phase
Max. Continuous Operating Voltage (AC/DC)		U_c	180/230V	320/420V
Rated Load Current		I_L	63A	
Nominal Discharge Current		I_n	25kA (8/20μs)	
Primary Surge Protection Rating	L-N		I_{imp} : 25kA (10/350μs), I_{max} : 100kA (8/20μs)	
	N-PE		I_{imp} : 100kA (10/350μs), I_{max} : 200kA (8/20μs)	
Secondary Surge Protection Rating	L-N	I_{max}	50kA(8/20μs)	
Total Surge Capacity Per Line		I_{total}	150kA (8/20μs)	
Voltage Protection Level	L-N@6kV/3kA	VPR	<0.4kV	<0.5kV
	L-N@ I_n	U_p	<0.7kV	< 0.85kV
	N-PE@1.2/50	U_p	< 1.0kV	< 1.5kV
Residual Current		I_{PE}	<0.1mA	
Voltage Drop			< 2V at 63 A load	
Temporary Overvoltage TOV — Withstand Mode		U_{tov}	230V/120min	440VAC/120min
Response Time		t_A	≤1ns	
Filter Attenuation		dB	>48dB @ 1MHz	
Built In Over Load/ Over-Current Protection In Series			63A (optional)	
Lightning Counter Current			≤ 3kA	
Protect Status Indication			2 LED display, Normal (Blue), Protection fault(Off)	
Remote Alarm			Dry contact alarm relay – 250Vac/32Vdc, 5A	
Connecting Cable			Power: 6-8 AWG(50A/63A); Alarm: 14-22 AWG	
Environment			Temperature Range: - 40°C ~ +70°C Humidity: ≤95% Altitude: ≤2000m	
Mounting			Wall mounting	
Location Category			Indoor	
Degree of Protection			IP20	
Dimension			425mm (L) x370mm (W) x 170mm (H) approx	
Weight			20kg approx	
Approvals, Certification			CE	

Other Models

Power System	Load Current	Model Recommended	Recommended External Over Current Protection In Series	Built In Over Load/ Over-Current Protection in Series
Single phase 2W+G	125A	BSF100-1/...-125A-PN-VTD-S	\	125A gL/gG