

Box type Surge power Filter

Prosurge BSF series surge filter is two-port Surge Protective Device with LC Filter especially for low-voltage power supply system surge protection at the boundaries from lightning protection zone 0_B-2 and higher.



L*W*H:120*65*35.5
for 1ph 5A~10A



L*W*H:152*133*48
for 1ph 10A~16A



L*W*H:220*143*48
for 1ph 20A~45A



L*W*H:360*280*132
for 1ph 50A~120A/200kA



L*W*H:510*370*140
for 3ph 50~63A / I_{max} 80~200KA

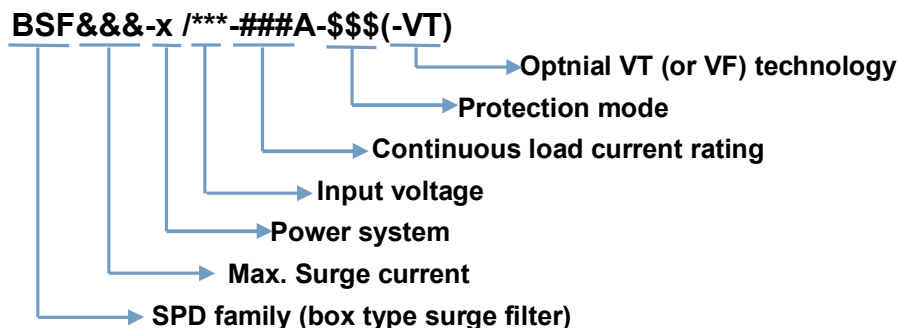


L*W*H:870*630*150
for 3ph 80A~120A/200kA

◇ All dimension in mm

Features:

- Different Technology optional: MOV, Spark Gap, MOV & Spark Gap combination etc.
- High Surge capacity: 25kA~ 200kA per module available for primary stage protection
- Different load current: 5A ~ 120A available for single phase or 3 phase
- Overload short circuit protection Fuse / Circuit Breaker available
- Lower pass filter L-C with working at frequency 600Hz~3500Hz
- Multi-mode protection L-N, L-E & N-E
- Multi-stage protection circuit design including Primary stage + Filter Circuit L/C + Secondary stage protection
- LED failure indication
- Remote alarm function available
- Surge counter optional

Box type Surge power Filter**Model Configuration:**

BSF : Box type Surge Filter

&&&: Max. surge current (Available from 25KA ~200KA)

x: Power system (1/3:Single phase/three phase)

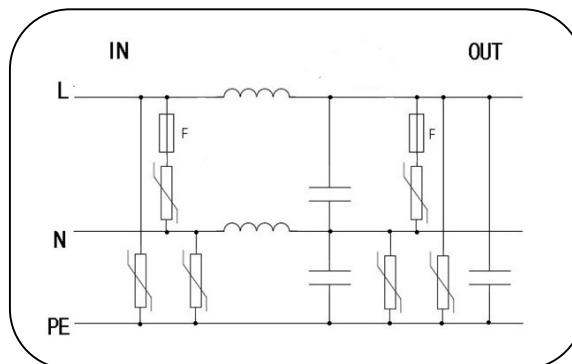
***** : Input voltage – Uc (150/180/275/320/420/550)**

###: Load Current rating - continuous (5A/10A/16A/20A/32A/50A/63A/100A/ 120A... :)

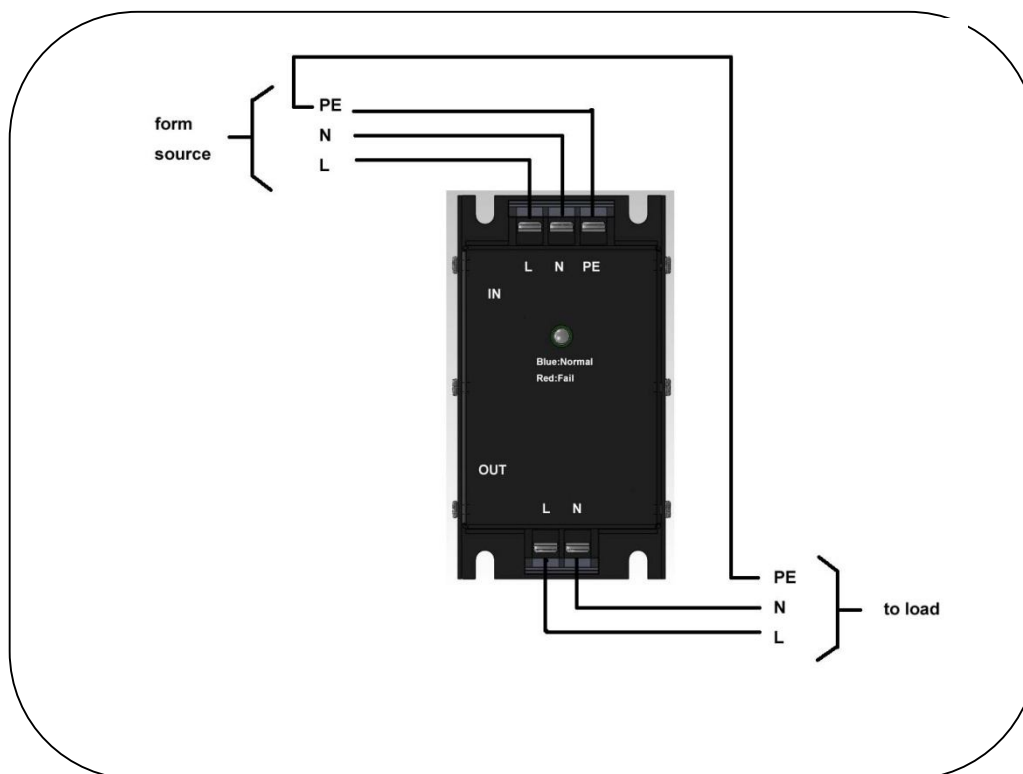
\$\$\$: protection mode (3P: 3+0 PN:1+1;3PN: 3+1) .

(-VT): Optional Prosurge “VT” technology: Spark Gap & MOV combination technology, No leakage current, No follow current, High TOV capacity, Low voltage protection level, Intelligent distinguish Power frequency current and Surge current to guarantee long service life and reliability.

(-VF): Optional Prosurge “VF” technology: MOV with internal fuse technology. No need back up fuse in main if the system short circuit current less than 3kA. Provide customers a cost saving and safe surge protection solution.

Box type Surge power Filter**5A/10A Series Box type Surge power Filter****BSF25-1/xxx-#A-3P****(Single Phase 5A/10A, 25kA Primary)****Basic circuit diagram****Applications**

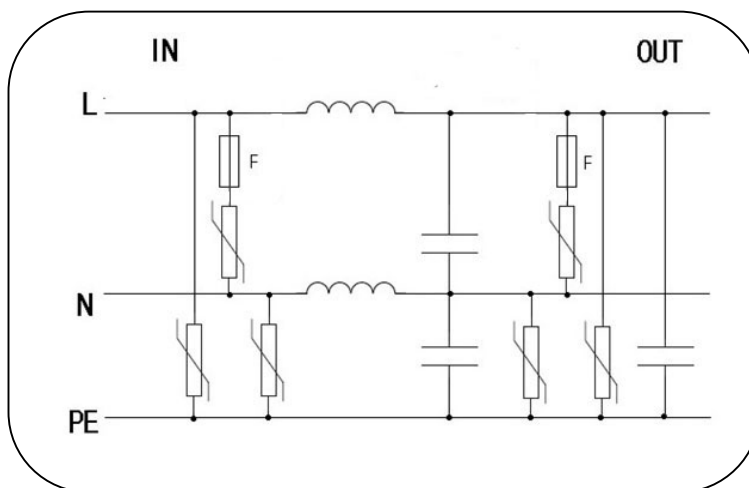
- Secondary power circuits / Sub-boards
- Telecommunication Systems / Rectifiers
- Process and Control Systems /UPS <6kVA
- Computer Systems / Medical Systems
- All sensitive Electronic Equipment

**Connection diagram**

Box type Surge power Filter

Technical data:

Part No.		BSF25-1/180-5A-3P	BSF25-1/320-5A-3P	BSF25-1/420-5A-3P	BSF25-1/550-5A-3P
		BSF25-1/180-10A-3P	BSF25-1/320-10A-3P	BSF25-1/420-10A-3P	BSF25-1/550-10A-3P
In accordance with		IEC61643-11:2011; UL1449-4th; IEC610006; ANSI/IEEE C62.41; AS1768-1991;AS3100			
Category IEC/VDE/UL		II / C/ Type 4 CA			
Rated load Current		5A/10A			
Power system		120V single phase	220-277V single phase	347V single phase	480V single phase
Max. continuous operating voltage (AC/DC)		180 /230	320 /420	420 /560	550 /745
Connecting cable		12-18AWG ,			
Number of ports		2 Port			
Protection modes		Three mode protection(Line-Neutral, Line-Earth, Neutral-Earth)			
Nominal discharge current(8/20) In		L-N 10kA, N-E 3kA, L-E 3kA			
Max. discharge current(8/20) Imax		L-N 25kA, N-E 6kA, L-E 6kA			
Temporary overvoltage - TOV		240VAC	400VAC	600VAC	690VAC
Voltage protection level	L-N @VPR	<0.6kV	<1.0kV	<1.4kV	<2.0kV
	L/N-PE@VPR	<0.7kV	<1.2kV	<1.6kV	<2.2kV
	L-N @In	<0.8kV	<1.2kV	<1.6kV	<2.3kV
	L/N-PE@In	<0.9kV	<1.4kV	<1.8kV	<2.5kV
Filter attenuation		>60dB @ 1MHz / >15dB @ 100kHz / >0.5dB @ 1kHz			
Residual current		<5 mA			
Short circuit withstand (1 sec)		80A			
Response time		≤25 ns			
External requirements disconnecter		5A/10A gL/gG fuse			
Thermal technology		With thermal disconnecter design MOV (PTMOV) on primary MOVs			
Protect Status Indication		LED display, Normal (Blue), Protection fault (change Red).			
Environment		-10 to 60°C, 0 to 90%RH (non-condensing)			
Termination size		Single-strand 6mm ² ; multi-strand 4mm ²			
Mounting		Fixed. Surface mount			
Location Category		Indoor			
Degree of protection		IP20			
Dimension		120mm (L) x 65mm (W) x35.5mm (H)			
Weight		0.3-0.4kg			

Box type Surge power Filter**10A/16A Series Box type Surge power Filter****BSF40-1/xxx-#A-3P****(Single Phase 10A/16A, 40kA Primary)****Basic circuit diagram****APPLICATIONS**

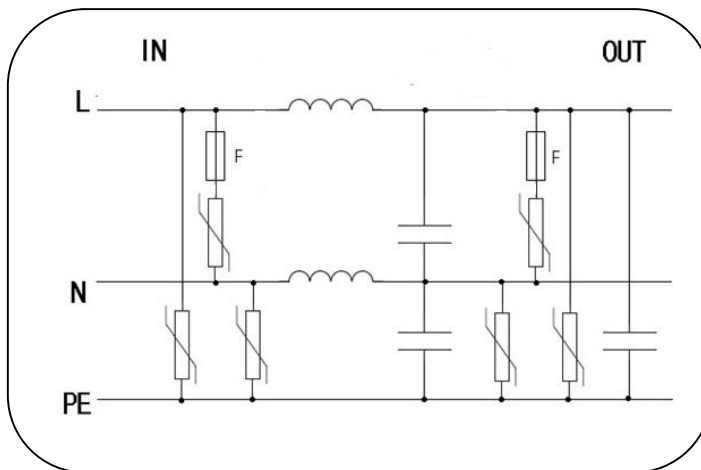
- Plug-in UPS systems
- Servers
- Portable instrumentation
- POS systems
- Small Office systems
- Industrial/rural/surge prone sites

**Connection diagram**

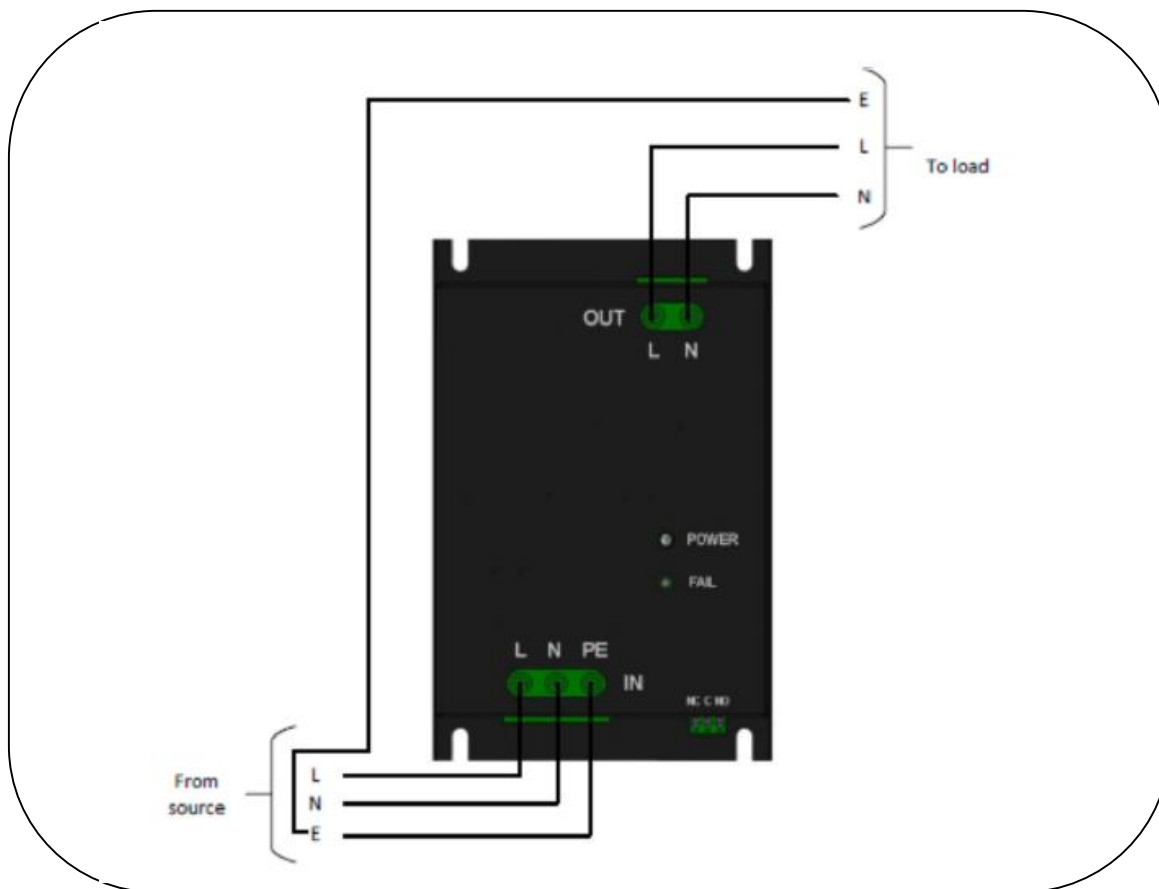
Box type Surge power Filter

Technical data:

Type		BSF40-1/320-10A-3P	BSF40-1/320-16A-3P
In accordance with		IEC61643-11:2011; UL1449-4th; IEC610006-1,2,3,4 ;ANSI/IEEE C62.41 Cat B; AS1768-1991 Cat B: AS3000.AS3100	
Category IEC/VDE/UL		II / C/ Type 4 CA	
Rated load Current		10A	16A
Terminations		IEC320 10A input x 1, IEC320 10A output x 1.	IEC320 16A input x 1, IEC320 16A output x 1.
Power system		200-250VAC 1Ø 48-62Hz	
Max. continuous operating voltage (AC/DC)		320VAC	
Number of ports		2 Port	
Protection modes		Three mode protection(Line-Neutral, Line-Earth, Neutral-Earth)	
Nominal discharge current(8/20) In		L-N 20kA, N-E 5kA, L-E 5kA	
Max. discharge current(8/20) I _{max}		L-N 40kA, N-E 10kA, L-E 10kA	
Temporary overvoltage - TOV		446VAC	
Voltage protection level	L-N @VPR	<1.0kV	
	L/N-PE@VPR	<1.2kV	
	L-N @In	<1.2kV	
	L/N-PE@In	<1.4kV	
Filter attenuation		>40dB @ 1MHz	
Residual current		<5 mA	
Short circuit withstand (1 sec)		80A	
Response time		≤25 ns	
Recommended maximum over current protection		20A gL/gG	
Thermal technology		With thermal disconnecter design MOV (TPMOV) on primary MOVs	
Protect Status Indication		2 part display, Power OK, Protection fault.	
Environment		-10 to 50°C, 0 to 90%RH (non-condensing)	
Termination size		Single-strand 6mm ² ; multi-strand 4mm ²	
Mounting		Portable.	
Location Category		Indoor	
Degree of protection		IP20	
Dimension		152mm (L) x 133mm (W) x 48mm (H)	
Weight		0.8kg	

Box type Surge power Filter**20A/32A/45A Series Box type Surge power Filter****BSF50-1/xxx-#A-3P****(Single Phase 20A/32A/45A, 50kA Primary)****Basic circuit diagram****Applications**

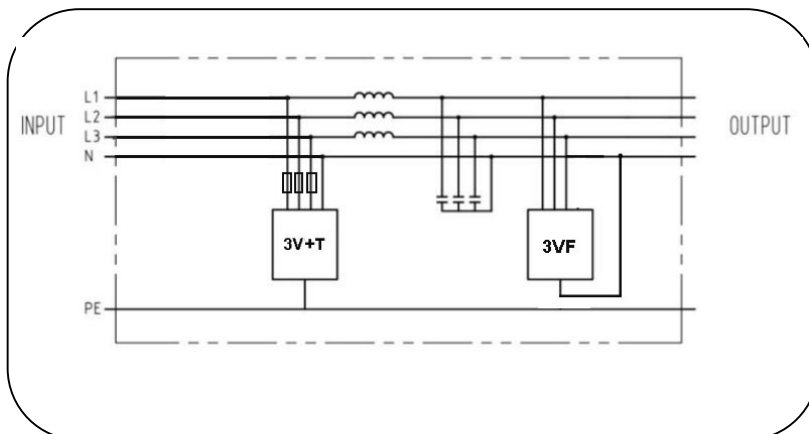
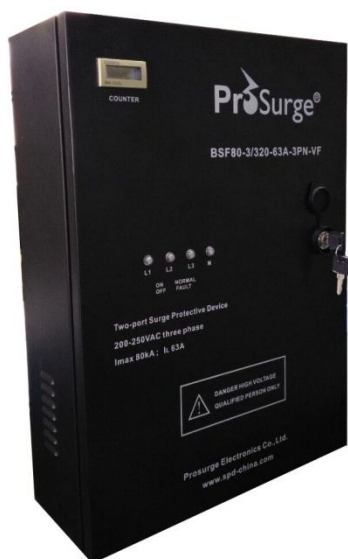
- Secondary power circuits / Sub-boards
- Telecommunication Systems / Rectifiers
- Process and Control Systems /UPS <6kVA
- Computer Systems / Medical Systems
- All sensitive Electronic Equipment

**Connection diagram**

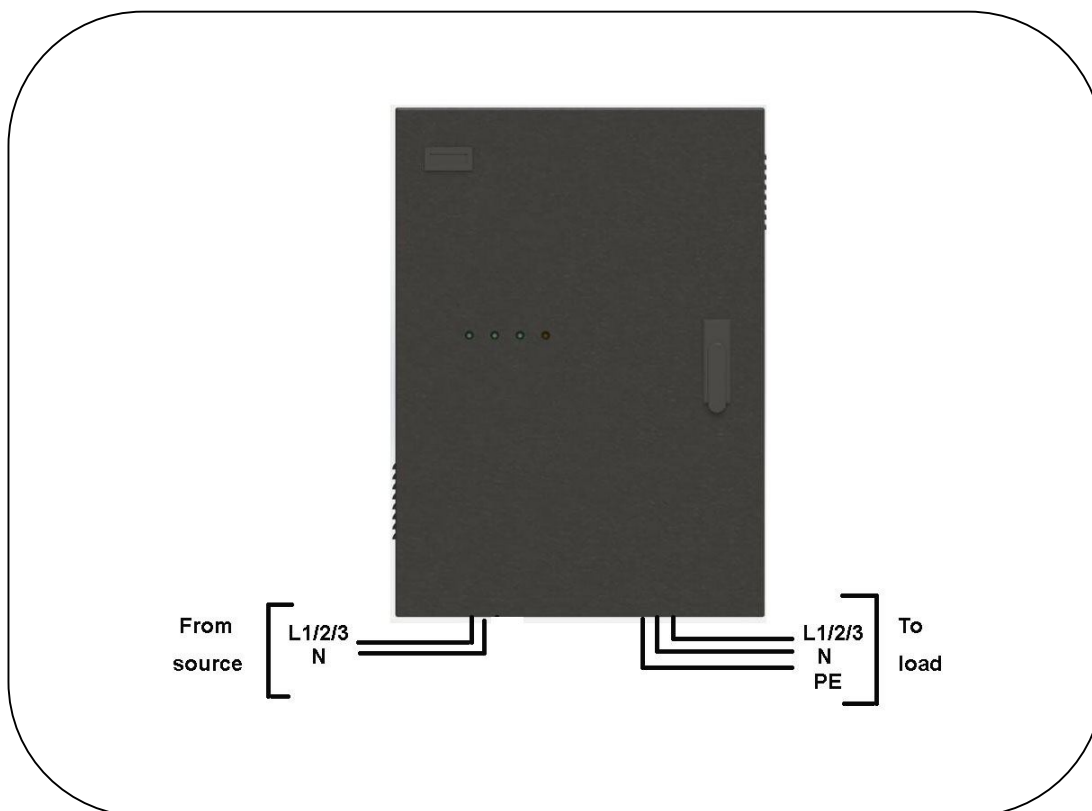
Box type Surge power Filter

Technical Data

Type	BSF50-1/180-20A-3P BSF50-1/320-20A-3P BSF50-1/420-20A-3P BSF50-1/550-20A-3P			
	BSF50-1/180-32A-3P BSF50-1/320-32A-3P BSF50-1/420-32A-3P BSF50-1/550-32A-3P			
	BSF50-1/180-45A-3P BSF50-1/320-45A-3P BSF50-1/420-45A-3P BSF50-1/550-45A-3P			
In accordance with	IEC61643-11:2011; UL 1449-4th; IEC610006; ANSI/IEEE C62.41; AS1768-1991;AS3100			
Category IEC/VDE/UL	II / C/ Type 4 CA			
Rated load Current	20A/32A/45A			
Power system	120V single phase	220-277V single phase	347V single phase	480V single phase
Max. continuous operating voltage (AC/DC)	180 /230	320 /420	420 /560	550 /745
Connecting cable	Power 8-10AWG , Alarm 14 -22AWG,			
Number of ports	2 Port			
Protection modes	Three mode protection(Line-Neutral, Line-Earth, Neutral-Earth)			
Nominal discharge current(8/20) In	L-N 20kA, N-E 10kA, L-E 10kA			
Max. discharge current(8/20) I _{max}	L-N 50kA, N-E 25kA, L-E 25kA			
Temporary overvoltage - TOV	240VAC	400VAC	600VAC	690VAC
Voltage protection level	L-N @VPR	<0.6kV	<1.0kV	<1.4kV
	L/N-PE@VPR	<0.7kV	<1.2kV	<1.6kV
	L-N @In	<0.8kV	<1.2kV	<1.6kV
	L/N-PE@In	<0.9kV	<1.4kV	<1.8kV
Filter attenuation	>60dB @ 1MHz / >15dB @ 100kHz / >0.5dB @ 1kHz			
Residual current	<5 mA			
Short circuit withstand (1 sec)	80A			
Response time	≤25 ns			
External disconnecter requirements	32A gL/gG fuse or MCB			
Thermal technology	With thermal disconnecter design MOV (PTMOV) on primary MOVs			
Protect Status Indication	2 part display, Power OK, Protection fault./ dry contact alarm relay – 250Vac/32Vdc, 5A			
Environment	-10 to 60°C, 0 to 90%RH (non-condensing)			
Termination size	Single-strand 35mm ² ; multi-strand 25mm ²			
Mounting	Fixed. Surface mount			
Location Category	Indoor			
Degree of protection	IP20			
Dimension	220mm (L) x 143mm (W) x48 mm (H)			
Weight	1.2kg			

Box type Surge power Filter**63A Series Box type Surge power Filter****BSF80-3/xxx-63A-3PN-VF****(Three Phase 63A, 80kA) VF technology****Basic circuit diagram****APPLICATIONS**

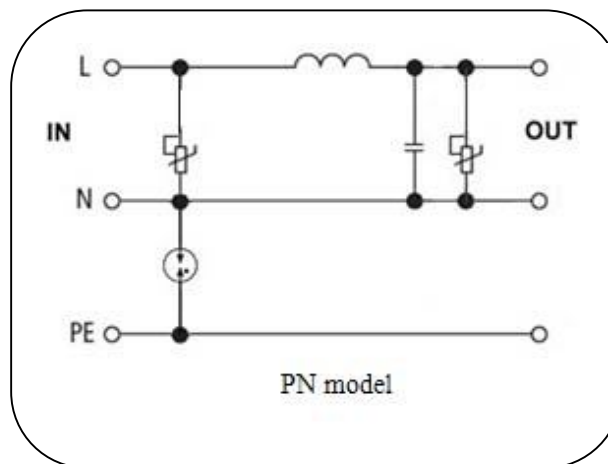
- Telecommunications systems
- Medical equipment
- Industrial equipment
- Data centres
- Control systems
- Switch boards

**Connection diagram**

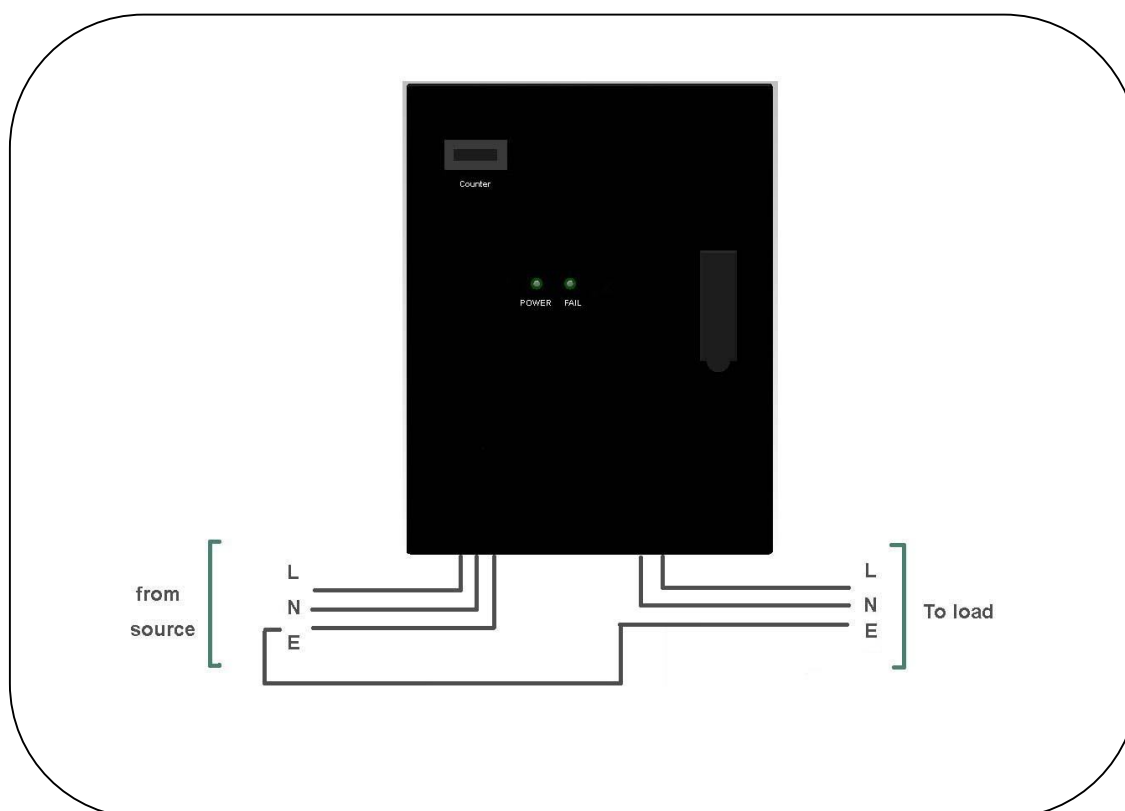
Box type Surge power Filter

Technical Data

Type	BSF80-3/320-63A-3PN-VF	
In accordance with	IEC61643-11:2011; UL1449 3rd	
Category IEC/VDE/UL	I+II / B+C/ Type 1+2	
Rated load Current	63A	
Power system	200-250V Three phase	
Max. continuous operating voltage (AC)	320VAC(L-N);255VAC(N-PE)	
Connecting cable	Power 6-8AWG, Alarm 14 -22AWG,	
Protection modes	Line-Neutral, Neutral-Earth	
Nominal discharge current(8/20) In	40kA	
Max. discharge current(8/20) I _{max}	80kA	
Lightning impulse current(10/350) I _{imp}	/	
Temporary overvoltage - TOV	446VAC	
Voltage protection level	L-N@VPR	<250V
	L-N@10kA	<350V
	N-PE@1.2/50	<1.5kV
Filter attenuation	> 3.0dB@10kHz;20dB@120kHz; 48dB @ 1MHz	
Number of ports	2 Port	
Thermal dissipation	Max 120W @ full load, 3phase, 63A model	
Residual current	<5 mA	
Short circuit withstand (1 sec)	29kA	
Response time	Line-Neutral≤25 ns;Neutral-Earth≤100 ns	
Circuit breaker inside(For SPD)	32A	
Protection technical	Triggered Spark Gap + MOV	
Lightning counter Current	≤ 3kA	
Protect Status Indication	4 LED display, Normal (Blue), Protection fault(Off)/ dry contact alarm relay – 250Vac/32Vdc, 5A	
Environment	-40 to 70°C, 0 to 90%RH, Altitude≤3km	
Termination size	Single-strand 35mm ² ; multi-strand 25mm ²	
Mounting	Wall mounting	
Location Category	Indoor	
Degree of protection	IP20	
Dimension	510mm (L) x 370mm (W) x 140mm (H)	
Weight	12.5kg	

Box type Surge power Filter**50A/63A/100A/120A Series Box type Surge power Filter****BSF120-1/xxx-#A-PN****(Single Phase 50A/63A/100A/120A, 120kA)****Basic circuit diagram****APPLICATIONS**

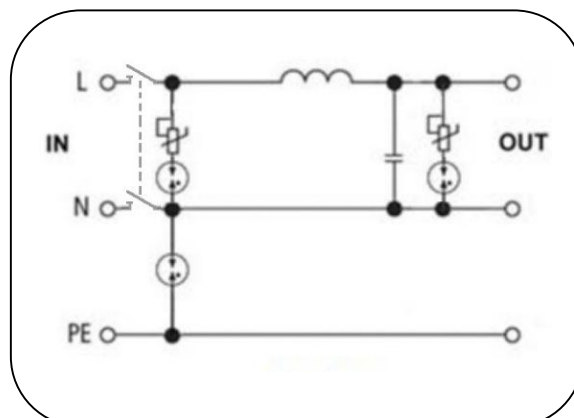
- Telecommunications systems
- Medical equipment
- Industrial equipment
- Data centres
- Control systems
- Switch boards

**Connection diagram**

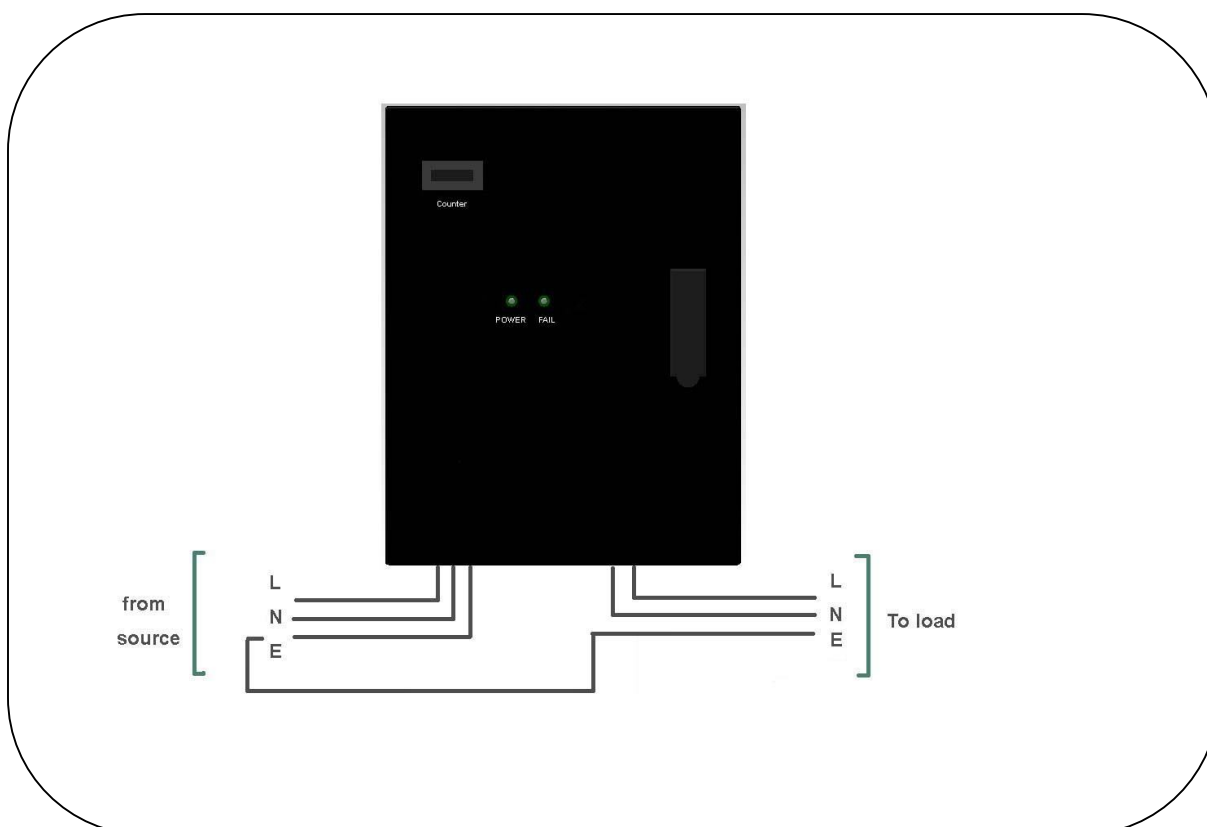
Box type Surge power Filter

Technical Data

Type		BSF120-1/180-50A-PN	BSF120-1/320-50A-PN	BSF120-1/420-50A-PN	BSF120-1/550-50A-PN
		BSF120-1/180-63A-PN	BSF120-1/320-63A-PN	BSF120-1/420-63A-PN	BSF120-1/550-63A-PN
		BSF120-1/180-100A-PN	BSF120-1/320-100A-PN	BSF120-1/420-100A-PN	BSF120-1/550-100A-PN
		BSF120-1/180-120A-PN	BSF120-1/320-120A-PN	BSF120-1/420-120A-PN	BSF120-1/550-120A-PN
In accordance with		IEC61643-11:2011; UL1449-4th			
Category IEC/VDE/UL		I + II / B+C/ Type 1+2			
Rated load Current		50A/63A/100A/120A			
Power system		120V single phase	220-277V single phase	347V single phase	480V single phase
Max. continuous operating voltage (AC/DC)		180 /230	320 /420	420 /560	550 /745
Connecting cable		Power 6-8AWG(50A/63A) 2-3AWG(100A/120A), Alarm 14 -22AWG,			
Protection modes		Two mode protection(Line-Neutral, Neutral-Earth)			
Nominal discharge current(8/20) In		60kA			
Max. discharge current(8/20) I _{max}		120kA			
Lightning impulse current(10/350) I _{imp}		Line-Neutral 12.5kA, Neutral-Earth 25kA			
Temporary overvoltage - TOV		240VAC	415VAC VAC	600VAC	690VAC
Voltage protection level	L-N@VPR	<200V	<250V	<1.4kV	<2.0kV
	L-N@10kA	<300V	<350V	<1.6kV	<2.3kV
	N-PE@1.2/50	<1.0kV	<1.5kV	<1.8kV	<2.0kV
Filter attenuation		>48dB @ 1MHz		-----	-----
Number of ports		2 Port			
Thermal dissipation		Max 80W @ full load, 1phase, 100A model			
Residual current		<5 mA			
Short circuit withstand (1 sec)		29kA			
Response time		Line-Neutral≤25 ns;Neutral-Earth≤100 ns			
External disconnector requirements		HRC gL fuse, 500v,50KAIC			
Thermal technology		With thermal disconnector design MOV on primary MOVs			
Lightning counter Current		≤ 3kA			
Protect Status Indication		2 part display, Power OK, Protection fault./ dry contact alarm relay – 250Vac/32Vdc, 5A			
Environment		-10 to 60°C, 0 to 90%RH (non-condensing)			
Termination size		Single-strand 35mm ² ; multi-strand 25mm ² (50/63A) Single-strand 50mm ² ; multi-strand 35mm ² (100/120A)			
Mounting		Wall mounting			
Location Category		Indoor			
Degree of protection		IP20			
Dimension		360mm (L) x 280mm (W) x 125mm (H)			
Weight		7kq			

Box type Surge power Filter**50A/63A/100A/120A Series Box type Surge power Filter**(Single Phase 50A/63A/100A/120A, 120~200kA) *VT technology***BSF200-1/275-63A-PN-VT****Basic circuit diagram****APPLICATIONS**

- Telecommunications systems
- Medical equipment
- Industrial equipment
- Data centres
- Control systems
- Switch boards

**Connection diagram**

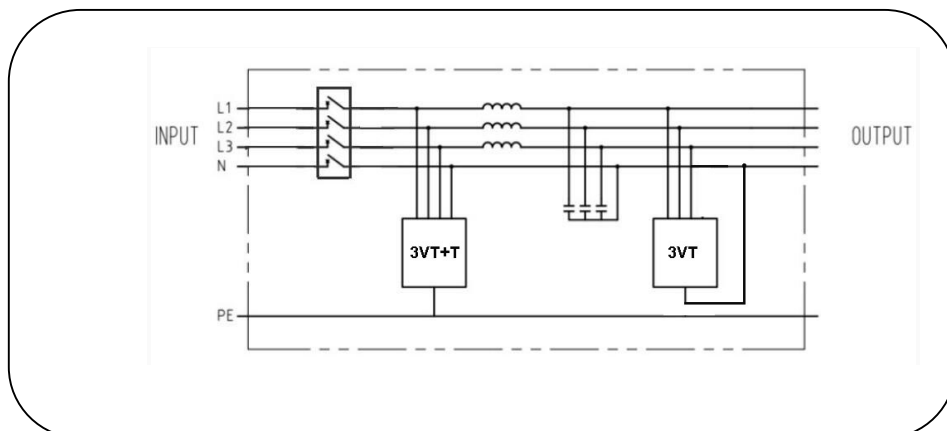
Box type Surge power Filter

Technical Data

Part No.		BSF200-1/275-63A-PN-VT	BSF200-1/275-120A-PN-VT
In accordance with		IEC61643-11:2011; UL1449-4th	
Category IEC/VDE/UL		I + II / B+C/ Type 1+2	
Rated load Current		63A	120A
Power system		220-230V single phase	
Max. continuous operating voltage (AC)		275(L-N);255(N-PE)	
Connecting cable		Power 6-8AWG(63A) 2-3AWG(120A), Alarm 14 -22AWG,	
Protection modes		Line-Neutral, Neutral-Earth	
Nominal discharge current(8/20) In		25kA	
Max. discharge current(8/20) I _{max}		200kA	
Lightning impulse current(10/350) I _{imp}		Line-Neutral 25kA, Neutral-Earth 50kA	
Temporary overvoltage - TOV		415VAC VAC	
Voltage protection level	L-N@VPR	<250V	
	L-N@10kA	<350V	
	N-PE@1.2/50	<1.5kV	
Filter attenuation		>48dB @ 1MHz	
Number of ports		2 Port	
Thermal dissipation		Max 80W @ full load, 1phase, 120A model	
Residual current		NO	
Short circuit withstand (1 sec)		29kA	
Response time		≤100 ns	
Circuit breaker inside		63A/125A, 400V,6KAIC	
Protection technical		Triggered Spark Gap + MOV	
Lightning counter Current		≤ 3kA	
Protect Status Indication		2 part display, Power OK, Protection fault./ dry contact alarm relay – 250Vac/32Vdc, 5A	
Environment		-10 to 60°C, 0 to 90%RH (non-condensing)	
Termination size		Single-strand 35mm ² ; multi-strand 25mm ² (63A) Single-strand 50mm ² ; multi-strand 35mm ² (120A)	
Mounting		Wall mounting	
Location Category		Indoor	
Degree of protection		IP20	
Dimension		360mm (L) x 280mm (W) x 132mm (H)	
Weight		7kg	

Box type Surge power Filter
63A Series Box type Surge power Filter
 (Three Phase 63A, 200kA) *VT technology*

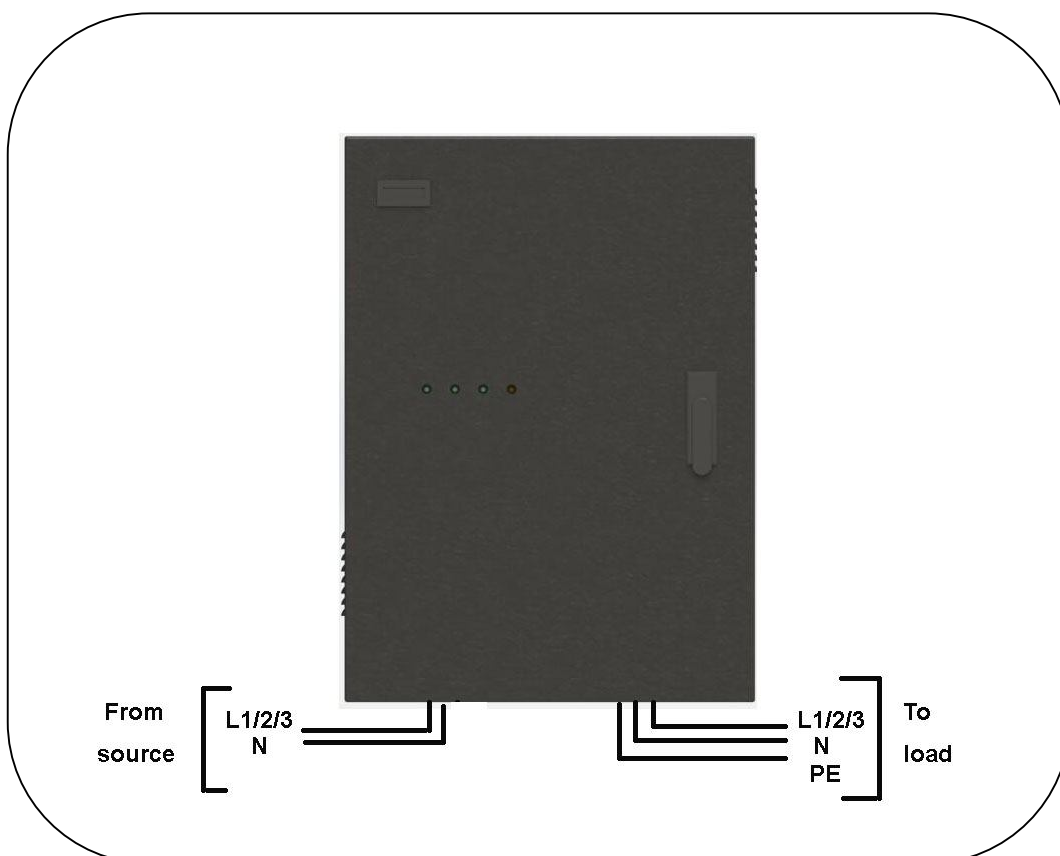
BSF200-3/275-63A-3PN-VT



Basic circuit diagram

**APPLICATIONS**

- Telecommunications systems
- Medical equipment
- Industrial equipment
- Data centres
- Control systems
- Switch boards

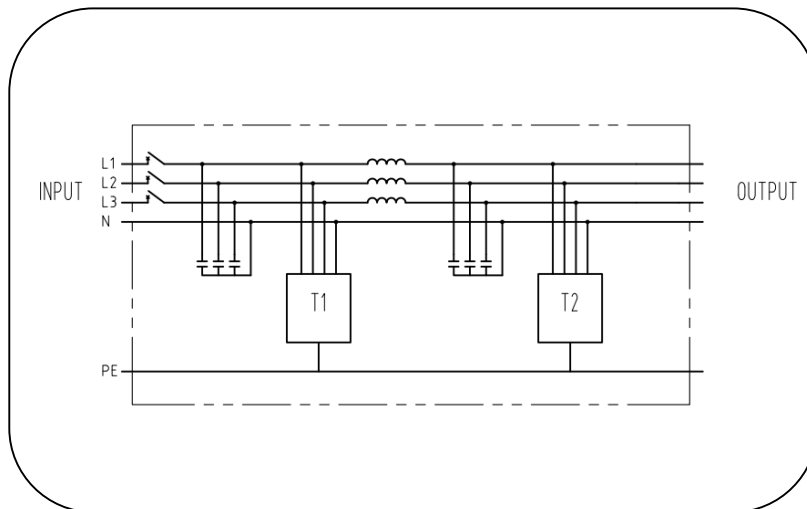


Connection diagram

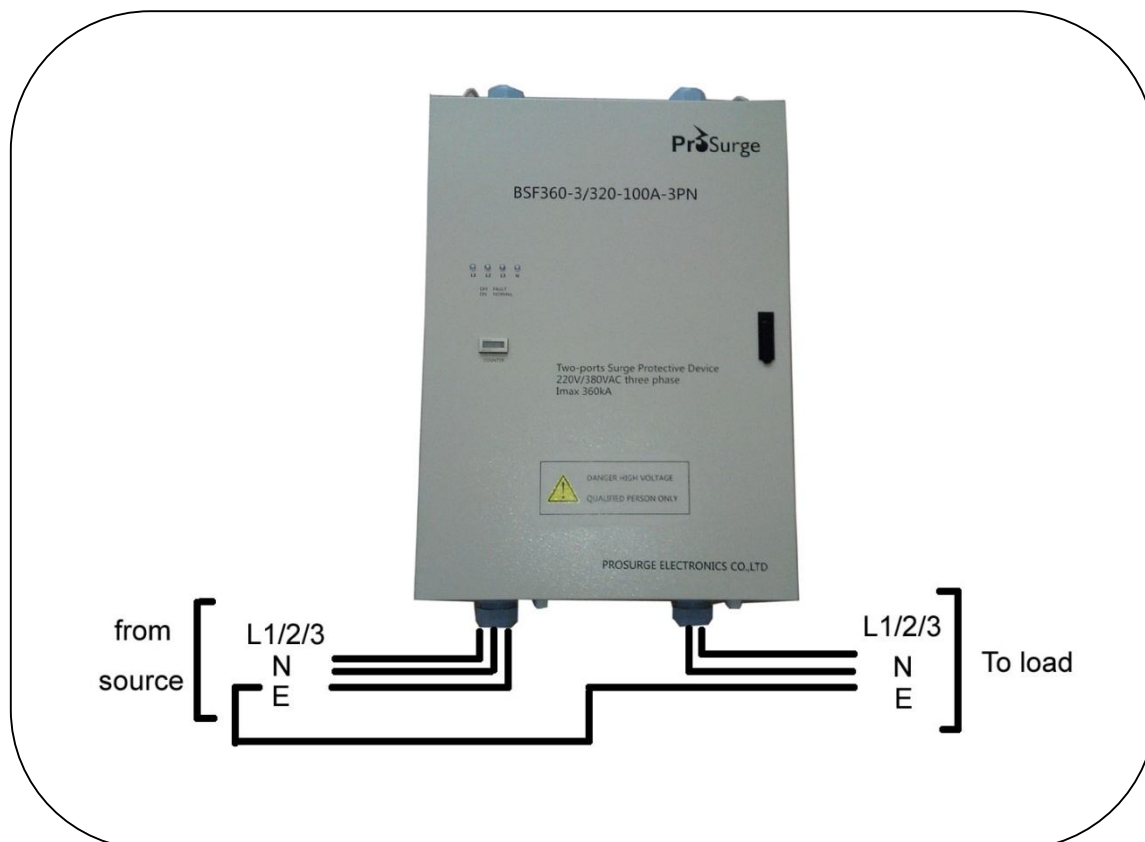
Box type Surge power Filter

Technical Data

Part No.	BSF200-3/275-63A-3PN-VT	
In accordance with	IEC61643-11:2011; UL1449-4th	
Category IEC/VDE/UL	I + II / B+C/ Type 1+2	
Rated load Current	63A	
Power system	220-230V Three phase	
Max. continuous operating voltage (AC)	275(L-N);255(N-PE)	
Connecting cable	Power 6-8AWG, Alarm 14 -22AWG,	
Protection modes	Line-Neutral, Neutral-Earth	
Nominal discharge current(8/20) In	25kA	
Max. discharge current(8/20) I _{max}	200kA	
Lightning impulse current(10/350) I _{imp}	Line-Neutral 25kA, Neutral-Earth 50kA	
Temporary overvoltage - TOV	415VAC	
Voltage protection level	L-N@VPR	<250V
	L-N@10Ka	<350kV
	N-PE@1.2/50	<1.5kV
Filter attenuation	>48dB @ 1MHz	
Number of ports	2 Port	
Thermal dissipation	Max 120W @ full load, 3phase, 63A model	
Residual current	NO	
Short circuit withstand (1 sec)	29kA	
Response time	≤100 ns	
Circuit breaker inside	63A, 400V,6KAIC	
Protection technical	Triggered Spark Gap + MOV	
Lightning counter Current	≤ 3kA	
Protect Status Indication	4 LED display, Normal (Blue), Protection fault(Off)/ dry contact alarm relay – 250Vac/32Vdc, 5A	
Environment	-40 to 70°C, 0 to 90%RH, Altitude≤3km	
Termination size	Single-strand 35mm ² ; multi-strand 25mm ²	
Mounting	Wall mounting	
Location Category	Indoor	
Degree of protection	IP20	
Dimension	510mm (L) x 370mm (W) x 140mm (H)	
Weight	12.5kg	

Box type Surge power Filter**80A/100A/120A Series Box type Surge power Filter****BSF200-3/xxx-xA-3PN****(Three Phase 50A/63A/100A/120A, 200kA)****Basic circuit diagram****APPLICATIONS**

- Telecommunications systems
- Medical equipment
- Industrial equipment
- Data centres
- Control systems
- Switch boards

**Connection diagram**

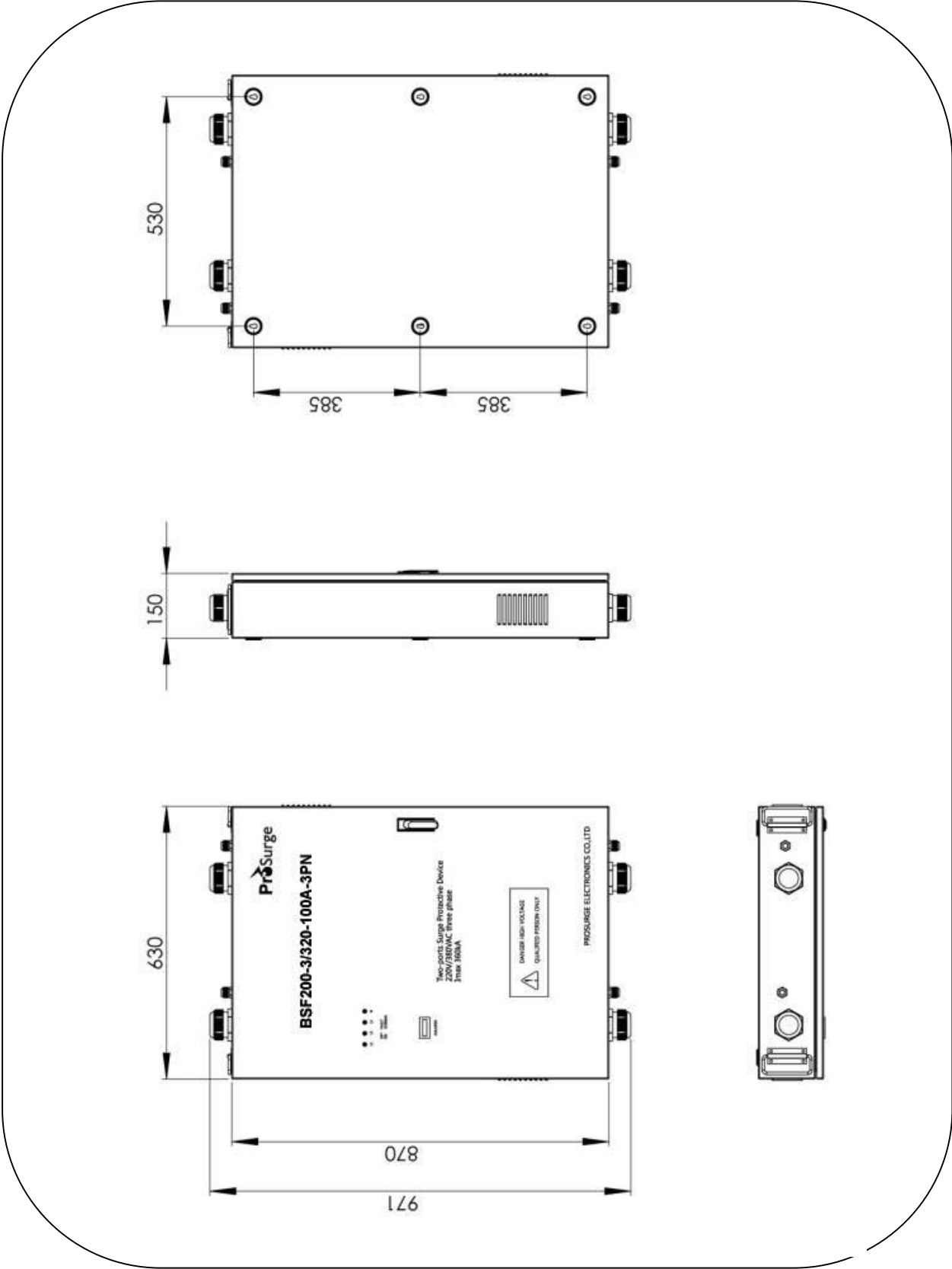
Box type Surge power Filter

Technical Data

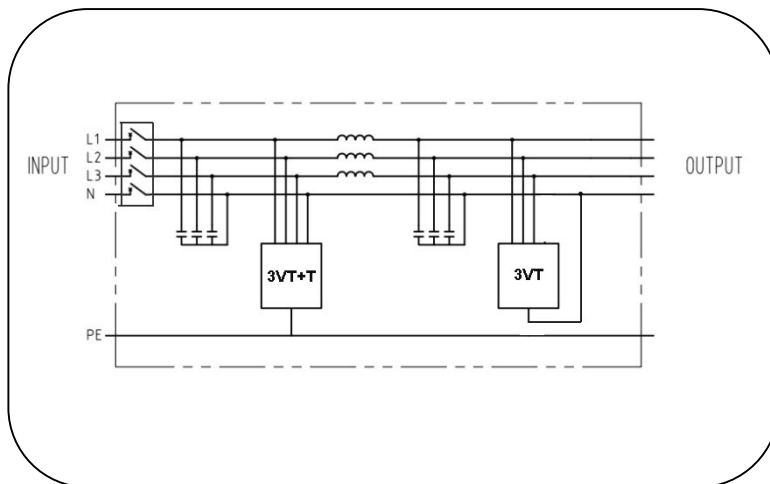
Type		BSF200-3/320-100A-3PN	BSF200-3/320-100A-3PN	BSF200-3/420-100A-3PN
		BSF200-3/320-120A-3PN	BSF200-3/320-120A-3PN	BSF200-3/420-120A-3PN
In accordance with		IEC61643-11:2011; UL1449-4th		
Category IEC/VDE/UL		I + II / B+C/ Type 1+2		
Rated load Current		80A/100A/120A		
Power system		120V Three phase	220-277V Three phase	347V Three phase
Max. continuous operating voltage (AC/DC)		180 /230	320 /420	420 /560
Connecting cable		Power 6-8AWG(50A/63A) 2-3AWG(100A/120A), Alarm 14 -22AWG,		
Protection modes		Two mode protection(Line-Neutral, Neutral-Earth)		
Nominal discharge current(8/20) In		100kA		
Max. discharge current(8/20) Imax		200kA		
Lightning impulse current(10/350) Iimp		Line-Neutral 60kA, Neutral-Earth 100kA		
Temporary overvoltage - TOV		240VAC	415VAC	600VAC
Voltage protection level	L-N@VPR	<200kV	<250V	<1.4kV
	L-N@10kA	<300V	<350V	<1.6kV
	N-PE@1.2/50	<1.0kV	<1.5kV	<1.8kV
Filter attenuation		>48dB @ 1MHz		-----
Number of ports		2 Port		
Thermal dissipation		Max 240W @ full load, 1phase, 100A model		
Residual current		NO		
Short circuit withstand (1 sec)		50kA		
Response time		≤100 ns		
Disconnecter inside		100A, 600v,50KAIC		
Protection technical		Triggered Spark Gap + MOV		
Lightning counter Current		≤ 3kA		
Protect Status Indication		4 LED display, Normal (Blue), Protection fault(Off)/ dry contact alarm relay – 250Vac/32Vdc, 5A		
Environment		-40 to 70°C, 0 to 90%RH, Altitude≤3km		
Termination size		Single-strand 35mm ² ; multi-strand 25mm ² (50/63A)		
Mounting		Wall mounting		
Location Category		Indoor		
Degree of protection		IP20		
Dimension		870mm (L) x 630mm (W) x 150mm (H)		
Weight		34kg		

***Detail Dimension drawing of BSF200-3/xxx-xA-3PN (next page)**

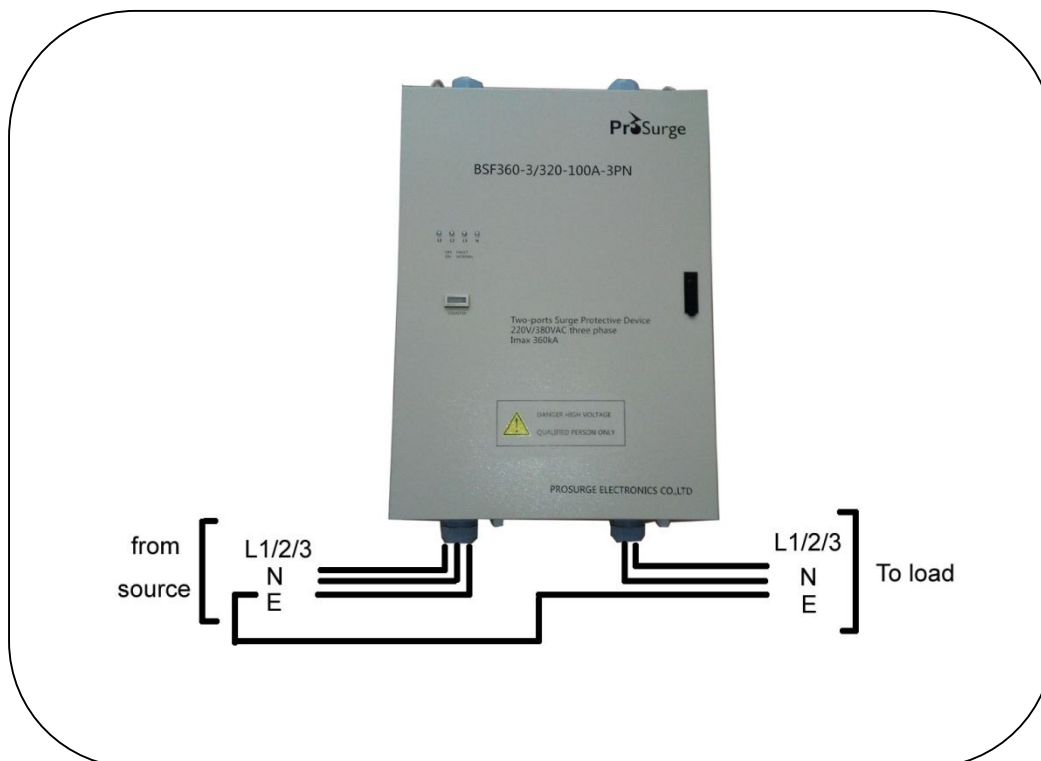
Box type Surge power Filter



Box type Surge power Filter
120A Series Box type Surge power Filter
(Three Phase 120A, 200kA) *VT technology*

BSF200-3/275-120A-3PN-VT**Basic circuit diagram****APPLICATIONS**

- Telecommunications systems
- Medical equipment
- Industrial equipment
- Data centres
- Control systems
- Switch boards

**Connection diagram**

Box type Surge power Filter

Technical Data

Part No.		BSF200-3/275-120A-3PN-VT
In accordance with		IEC61643-11:2011; UL1449-4th
Category IEC/VDE/UL		I + II / B+C/ Type 1+2
Rated load Current		120A
Power system		220-230V Three phase
Max. continuous operating voltage (AC)		275(L-N);255(N-PE)
Connecting cable		Power 2-3AWG, Alarm 14 -22AWG,
Protection modes		Line-Neutral, Neutral-Earth
Nominal discharge current(8/20) In		25kA
Max. discharge current(8/20) I _{max}		200kA
Lightning impulse current(10/350) I _{imp}		Line-Neutral 25kA, Neutral-Earth 50kA
Temporary overvoltage - TOV		415VAC
Voltage protection level	L-N@VPR	<250V
	L-N@10kA	<350V
	N-PE@1.2/50	<1.5kV
Filter attenuation		>48dB @ 1MHz
Number of ports		2 Port
Thermal dissipation		Max 240W @ full load, 3phase, 120A model
Residual current		NO
Short circuit withstand (1 sec)		50kA
Response time		≤100 ns
Circuit breaker inside		125A, 600V,50KAIC
Protection technical		Triggered Spark Gap + MOV
Lightning counter Current		≤ 3kA
Protect Status Indication		4 LED display, Normal (Blue), Protection fault(Off)/ dry contact alarm relay – 250Vac/32Vdc, 5A
Environment		-40 to 70°C, 0 to 90%RH, Altitudes≤3km
Termination size		Single-strand 50mm ² ; multi-strand 35mm ²
Mounting		Wall mounting
Location Category		Indoor
Degree of protection		IP20
Dimension		870mm (L) x 630mm (W) x 150mm (H)
Weight		34kg