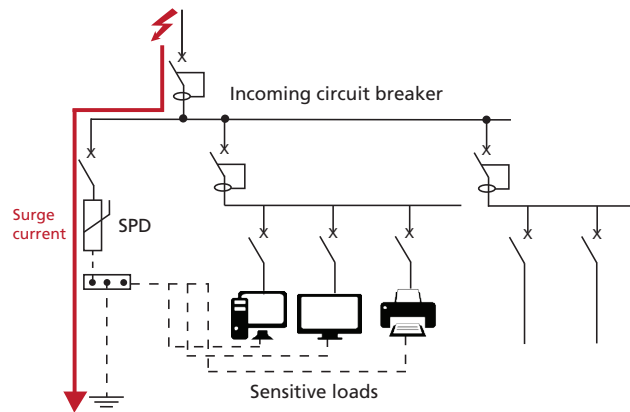


ZAPGUARD PRO® SURGE DIVERTERS

PowerShield ZapGuard Pro Diverters are designed to provide a high degree of protection for critical circuits in single and three phase systems. Diverters can be installed at point-of-entry or sub-board to provide protection for domestic, commercial and industrial UPS applications against detrimental effects of occurrences such as lightning, utility switching and electrical motor switching.



PANEL MOUNT SERIES

60KA SINGLE AND THREE PHASE,
2 MODE SURGE DIVERTER

The ZapGuard PSZ60KA is a Type 2 AC surge arrester designed for low-voltage power supply system protection against surges at the boundaries from lightning protection zone 1-2 and higher.

- Comply with IEC 61643-11, apply to single phase TT and TN systems.
- Pluggable design, 2 poles SPD, easy replaced without any tools.
- High discharge capacity with 8/20 us waveform, I_{max} 60kA.
- Visual status indication and remote signal contact available.
- Supplied in enclosure as standard.



WALL MOUNT SERIES

200KA, 3 PHASE, 2 MODE,
PRIMARY SURGE DIVERTER

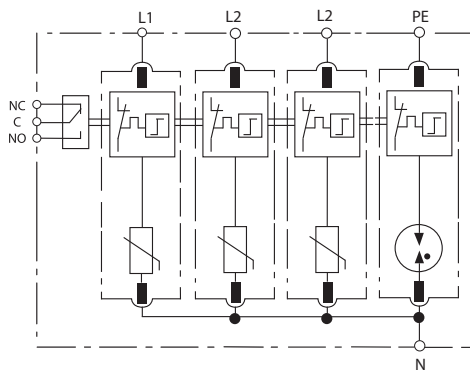
The ZapGuard PSZ200KASD4 is designed to protect three phase power systems against damage from surges and spikes caused by lightning and other electrical sources. The unit is intended for point of entry or main board protection and is connected in parallel with the power system via its own safety disconnect MCB.

- Compact, 3-Phase panel mount metal enclosure.
- Includes 3 Phase MCB safety disconnect housed inside enclosure.
- 200kA L-N each phase, 100kA N-E.
- Dry contact alarm outputs.
- LED visual indicators for protection and power.
- Integrated surge counter visible from front panel.



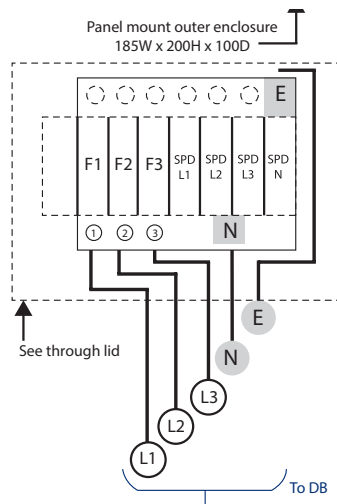
CIRCUIT DIAGRAM

PSZ60KASD4



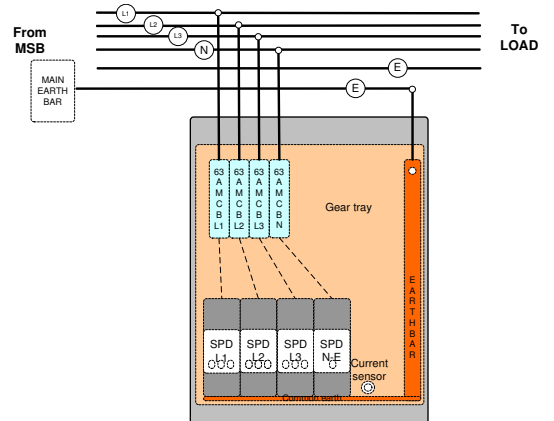
CONNECTION DIAGRAM

PSZ60KASD4



CIRCUIT DIAGRAM

PSZ200KASD4



ZAPGUARD® PANEL MOUNT SERIES

Model Number		PSZ60KASD2		PSZ60KASD4	
Circuit		1P+N		3P+N	
In accordance with		IEC61643-11 2011, UL 1449-4th			
Category IEC/VDE		II/C			
Max Continuous Operating Voltage UC	L-N (AC/DC)	320/420			
	N-PE (AC)	255			
Nominal Discharge Current (8/20) In	L-N	30kA			
	N-PE	30kA			
Nominal Discharge Current (8/20) Imax	L-N	60kA			
Protection modes	N-PE	60kA			
Voltage Protection Level Up	L-N@In	<1 8kV		<1 5kV	
	L-N@VPR	<1 3kV		1 1kV	
	N-PE (1.2/50)	<1 5kV		1 5kV	
Response Time	L-N	< 25ns			
	N-PE	< 100ns			
Follow Current	L-N	No			
	N-PE	Ifi 100Arms @ 255Vac			
Backup Fuse (only required if not already provided in mains)		160A gL/gG			
Operating Temperature Range		-40°C – +80°C			
Cross-section of Connection Wire		Single strand 35mm2, multi-strand 25mm			
Mounting		35mm DIN-rail in accordance with EN 50022/DIN46277-3			
Enclosure Material		Thermoplastic; extinguishing degree UL94 V-O			
Degree of Protection		IP20			
Installation Width		2 modules, DIN 43880		4 modules, DIN 43880	
Thermal Disconnect		Internal green-normal / red-failure			
Remote Alarm Contact		Optional			
Approvals, Certifications		CE			
Additional Data for Remote Alarm Contacts					
Remote Alarm Contact Type		Isolated Form C			
Switching Capability Un/In		AC 250V/0.5A DC 250V/0 1A 125V/0.2A 75V/0.5A			
Max Size of Connecting Wire		Max 1.5mm2 (or # 16AWG)			

ZAPGUARD® WALL MOUNT SERIES

Model Number	PSZ200KASD4
Number of Ports	1 Port (parallel connect)
Method of mounting	Fixed panel mount
Input voltage – Uc	380-440vac 3P
Maximum continuous voltage – MCOV	320VAC
Temporary overvoltage – TOV	345V (5S)
Service type	TN, TN C-S, 3 phase system with a grounded neutral
Test classification (IEC61643-11)	Class II
Protection modes	Line-Neutral, Neutral-Earth
Inom 8/20us (Line-Neutral) Nominal surge life	100kA
Imax 8/20us (Line-Neutral) Maximum surge level	200kA
Residual voltage (Vpl) (Line-Neutral/ Earth) (Let through volt-age)	<1000v (3kA, 8/20us) <1300v (20kA, 8/20us)
Safety disconnect	Series thermal fusing on MOV's
External disconnect requirement	NIL. Uses internal 63A MCB
Terminations	All conductors 16-35mm2
Alarms/indicators	Neon indicators each phase and Neu-tral
Surge counter sensitivity	< 3kA, 8/20us. 5 digit display, resettable
Enclosure rating	IP50, steel
Standards	IEC61643-11, ANSI/IEEE C62.41 Cat C & D, AS1768-2007 Cat C & D
Dimensions	360W x 280D x 560H
Weight	14kg
Environment	-40 to 70°C, 5 to 95%RH (non-condensing)