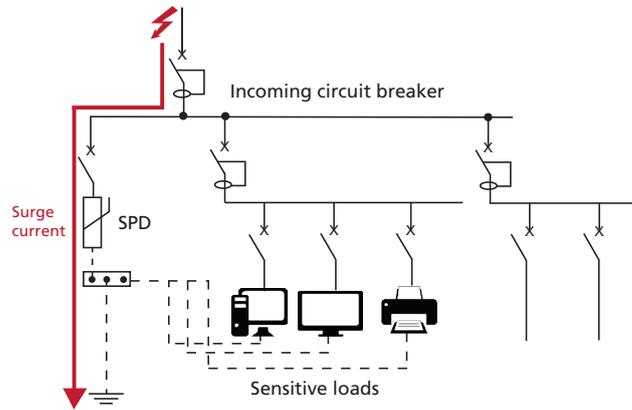


ZAPGUARD PRO® SURGE DIVERTERS

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.

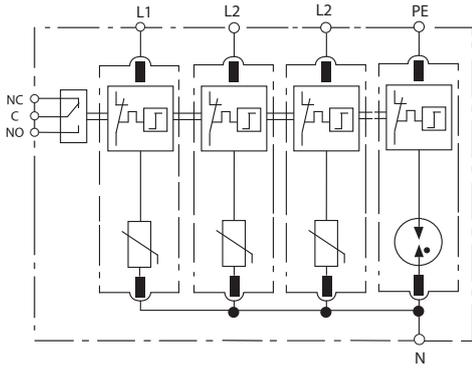
- Compact, 3-Phase panel mount metal enclosure.
- Includes 3 Phase MCB safety disconnect housed inside enclosure.
- 200kA L-N each phase, 100kA N-E.
- Dry contact alarm outputs.
- LED visual indicators for protection and power.
- Integrated surge counter visible from front panel.



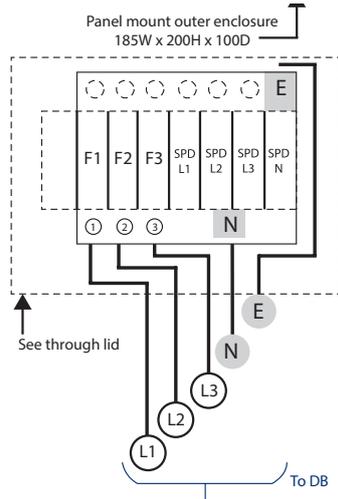
AUSTRALIAN DESIGNED
POWER PROTECTION
SOLUTIONS



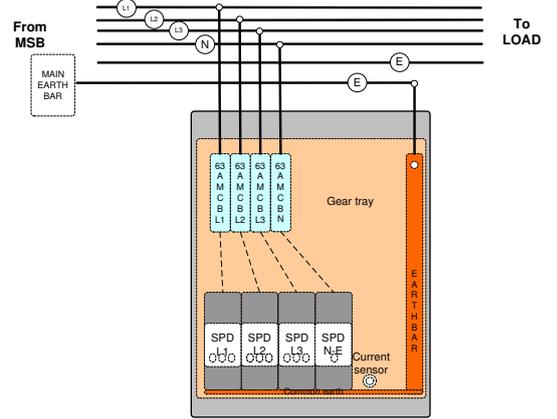
CIRCUIT DIAGRAM
PSZ60KASD4



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) I _{max}	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	I _{fi} 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 35mm ² , multi-strand 25mm		
Mounting	35mm DIN-rail in accordance with EN 50022/DIN46277-3		
Enclosure Material	Thermoplastic; extinguishing degree UL94 V-0		
Degree of Protection	IP20		
Installation Width	2 modules, DIN 43880	4 modules, DIN 43880	
Thermal Disconnecter	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 1.5mm ² (or # 16AWG)		

ZAPGUARD® WALL MOUNT SERIES

Model Number	PSZ200KASD4
Number of Ports	1 Port (parallel connect)
Method of mounting	Fixed panel mount
Input voltage – U _c	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
I _{max} 8/20us (Line-Neutral) Maximum surge level	200kA
Residual voltage (V _{pl}) (Line-Neutral/ Earth) (Let through volt-age)	<1000v (3kA, 8/20us) <1300v (20kA,8/20us)
Safety disconnect	Series thermal fusing on MOV's
External disconnecter requirement	NIL. Uses internal 63A MCB
Terminations	All conductors 16-35mm ²
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)