

EATON

Powerware

Powerware MSDi Three Phase Surge Diverter

Product Focus

Shunt surge diverter, 3 Phase 200kA



Features

- 3 Mode, 2 Stage Surge Diverter
- Surge suppression rating of 200kA
- Enclosed in IP24 cabinet
- Protection rating 200kA per phase
- LED Bargraph display on each phase
- Protection Fail Alarm Relay
- 5 Year Warranty

Typical applications:

- All Power Circuits including "Point-of-Entry"
- Telecommunications Systems and Rectifiers
- Process and Control Systems and UPS Systems
- Computer and Medical Systems
- Multi-storey buildings
- All sensitive Electronic Equipment

The MSDi surge diverter is designed to provide point-of-entry protection against power surges caused by external sources such as lightning strikes and substation switching. Common-mode protection is available for sites remote from the M.E.N. point including industrial sites and rooftops in multi-storey buildings. An ideal device for All Category locations.

The MSDi surge diverters utilise MOV protection for both differential and common-mode protection. Multiple MOV devices are used in parallel for primary circuit redundancy. The status of protective devices is continuously monitored and displayed using LED bar-graph indicators. All MOV devices are thermally fused and isolated by ceramic fuses.

MSDi unit is provided with an alarm relay. The alarm function provides a summary alarm output for protection degradation as well as power failure. The alarm may be configured to indicate either partial or total protection failure. The level of protection remaining is indicated by LED bar-graph indicators on the front panel. A summary alarm relay contacts provide remote signalling to remote equipment.

Technical Specifications

POWERWARE MSDi

Technical Specification	MSD200CM60i
Input voltage	200 - 250VAC (380 - 440VAC 3 Phase)
Maximum continuous voltage - MCOV	300VAC
Temporary overvoltage (TOV)	320VAC, 15 mins
Service type	TT, TN, TN C-S or any 3-phase system with a grounded neutral
Energy Absorption rating - per mode (Joules)	Primary Protection L-N = 3,000J/ph, 9,000J total Common mode protection L-E = 710J/ph, 2,130J total Common mode protection N-E = 2,130J total Aggregate rating 13,260J
Recommended max. overcurrent protection	100A GL HRC fuse
Protection modes	Line-Neutral, Line-Earth, Neutral-Earth
In 8/20us (Line-Neutral) Nominal surge life	75kA per phase x 20 times
In 8/20us (Line-Earth) Nominal surge life	15kA per phase x 20 times
In 8/20us (Neutral-Earth) Nominal surge life	45kA x 20 times
I _{smax} 8/20us (Line-Neutral) Max surge level	200kA per phase
I _{smax} 8/20us (Line-Earth) Max surge level	40kA per phase
I _{smax} 8/20us (Neutral-Earth) Max surge level	120kA
Initial clamp voltage (Line-Neutral)	560V (350Vac RMS)
Initial clamp voltage (Line-Earth)	680V (420Vac RMS)
Initial clamp voltage (Neutral-Earth)	680V (420Vac RMS)
Internal protection (fusing)	All surge diverter connections are fused via HRC fuses to IEC269-2-1
Alarms/indicators	Bargraph display for protection remaining, dry contact alarm relay output – 250Vac/32Vdc, 10A, 4kV isolation, Alarm under-voltage cutoff 180Vac.
Enclosure rating	IP24
Design Standards:	IEC61643-1, IEC610006-1,2,3,4 ANSI/IEEE C62.41 Cat B,C,D,E AS1768-1991 Cat B,C,D,E AS3000,AS3100, CE mark
Dimensions & Weight	370 x 160 x 560 mm (W x D x H), 14kg
Environment	-10 to 65 C, 10 to 90%RH (non-condensing)

In the interests of continual product improvement all specifications are subject to change without notice.

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