



MAINS SURGE DIVERTER

Ultimate performance in surge suppression for main and branch panels critical loads used in industrial, commercial environments in medium to high exposure

as well as

- ◆ All mode protection (L-N, L-E, N-E)
- ◆ Highest safety standard design
- ◆ Exceptional high surge handling capability up to 140KA per line
- ◆ Staged LED status indication
- ◆ Remote monitoring
- ◆ Redundant protection segments
- ◆ Remote Monitoring Panel



All mode protection -LEPS MSD series surge diverters provides state-of-the-art protection for main or branch panels using any power distribution systems such as TT, TN-C or TN-S etc. It offers L-N, L-E and N-E, repeated protection in lightning intense environment by rapidly diverts excess transient surges to ground, away from your sensitive equipment.

Highest safety standard design -It has been engineered to the industry's safest criteria for full compliance with ULI1449 Edition2 by using a specially designed metallic enclosure. Also with its patented thermal and short circuit fusing included, it ensures safe isolation during sustained abnormal over-voltage events and component failure.

Exceptional high surge handling capability up to 140KA per line - Its 200KA to 560KA unit total unparalleled surge handling capability makes MSD series protector the ultimate choice for total facility protection.

Staged LED status indication -All models have two LED indicators per

phase to monitor the integrity of protection. This pre-failure warning indication design means you will never be unprotected.

Remote monitoring -All models features voltage free contacts with normal open/normal close contacts which change state to indicate a fault. It can be interfacing with intelligent building management systems for remote indication.

Redundant protection segments - Each phase employs two independent fused and thermal overload protection elements to provide back-up protection for continued equipment survival despite a fault condition. This means that in the event of a fault situation, you are never left unprotected.

Remote Monitoring Panel (RMP) - Apart from the built-in LED status indication and voltage free change over alarm, an optional Remote Monitoring Panel can be chosen which offers both visual and audible alarm at remote location from the protector.

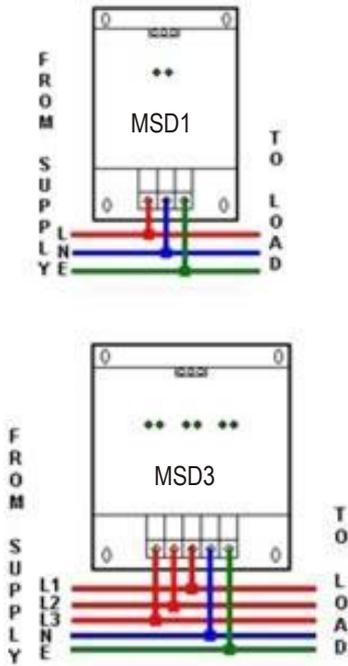




SPECIFICATIONS AND DRAWINGS

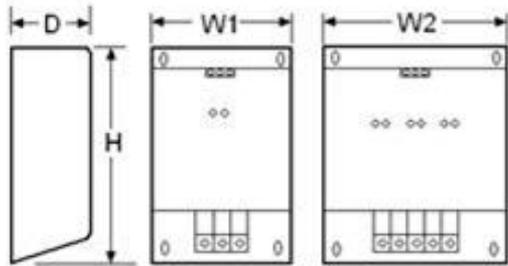
Installation

The diverters are connected in parallel with the protected system(load) as illustrated below:



For detail installation requirements, pls refer to relevant user manual.

Dimensions



	MSD1-50M	MSD1-80M	MSD1-140M	MSD3-50M	MSD3-80M	MSD3-140M
D (mm)	70	70	90	70	70	90
H (mm)	188	188	200	188	188	200
W1 (mm)	81	81	90	---	---	---
W2 (mm)	---	---	---	118	118	138

Ordering Information

MODEL DESCRIPTION

MSD1-50M	1 Ph, 50KA, surge diverter
MSD1-80M	1 Ph, 80KA, surge diverter
MSD1-140M	1 Ph, 140KA, surge diverter
MSD3-50M	3 Ph, 50KA, surge diverter
MSD3-80M	3 Ph, 80KA, surge diverter
MSD3-140M	3 Ph, 140KA, surge diverter

Notes:

- Other surge rating, e.g. 40KA, 60KA, 100KA, 120KA, 160KA are available on requested.
- The above models have an operating voltage of 180-280Vrms(1ph), 300-480Vrms(3ph). Other operating voltage ranges are available on requested.

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General Specifications

Nominal voltage:	220Vrms(1ph) , 380Vrms(3ph)
Operating voltage:	180-280Vrms(1ph) , 300-4 80Vrms(3ph)
Frequency:	40-60Hz
Earth leakage current:	10µA
Max. Surge rating per line:	
MSD1-50M	50KA(8/20µs)(100KA unit total)
MSD1-80M	80KA(8/20µs)(160KA unit total)
MSD1-140M	140KA(8/20µs)(280KA unit total)
MSD3-50M	50KA(8/20µs)(200KA unit total)
MSD3-80M	80KA(8/20µs)(320KA unit total)
MSD3-140M	140KA(8/20µs)(560KA unit total)
Let through voltage:	<750V for 3KA Cat B
Protection mode:	LN ,LE ,NE
Response time:	<5ns
Standards compliance:	BS6651-1999 cat.A.B.C AS1768-2003 cat.A.B.C IEEE C62.41 cat.A.B.C CP33-1999 cat.A.B.C IEC 1000-4-5 1995 UL1449 second edition
Alarm isolation:	4KV
Status indicator:	LED (Green=OK)
Optional remote alarm:	Siren sound ,OK and FAIL LED
Alarm(volt free contact):	NO ,NC(2A@ 250Vac)
Alarm conductor size:	2.5mm ²
Conductor size:	16mm ²
Operating temperature:	-40-85°C
Humidity:	0-95%(R.H.)
Mounting:	35mm DIN rail (DIN 43880) or panel screw mount
Enclosure material:	Galvanized steel alloy

Weight:

MSD1-50M	780g
MSD1-80M	850g
MSD1-140M	1.33kg
MSD3-50M	1.19kg
MSD3-80M	1.35kg
MSD3-140M	2.23kg

Local Distributor:


TECHNOPRO
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