

# DINRAIL MODULAR DIVERTER



Good performance in surge suppression for branch panels in industrial and commercial environments located in low to medium exposure areas

- ◆ **Plug-in protection modules for easy maintenance**
- ◆ **All mode protection**
- ◆ **High surge handling capability up to 40KA**
- ◆ **Status indication**
- ◆ **Remote monitoring**
- ◆ **Fits into most switching box**



**Plug-in protection modules for easy maintenance** - LEPS DMD series surge diverters use state-of-the-art plug-in protection modules. This makes the maintenance work much more easy in case there is the need to replace the protection modules.

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

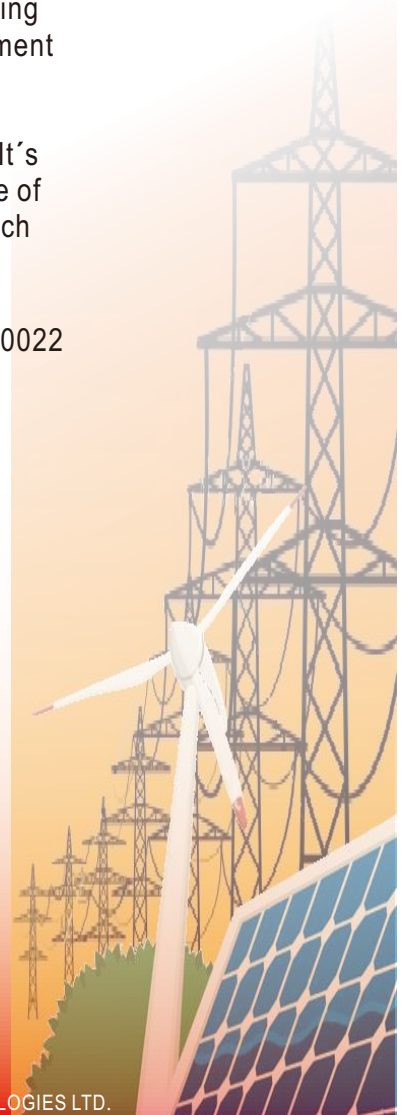
**High surge handling capability up to 40KA per mode(MOV)** - 40KA per mode(line) surge handling capability makes DMD series protectors an economical choice for total facility protection.

**Status indication** - All models have mechanical indicator per phase to monitor the integrity of protection.

**Remote monitoring** - All models features optional voltage free contacts

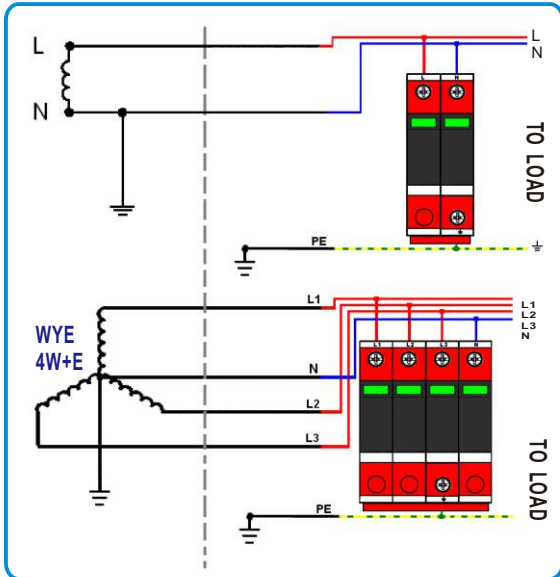
with normal open/normal close contacts which change state to indicate a fault. It can be interfacing with intelligent building management systems for remote indication.

**Fits into most switching box** - It's compact design match the profile of most common MCBs at used which makes it ideal for inclusion in distribution or switchboard by mounting on the DIN43880, EN50022 DIN rail.



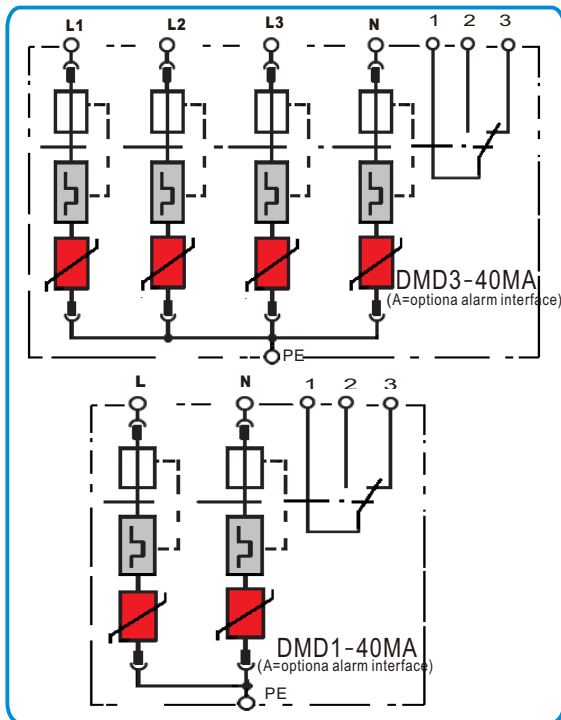
## Installation

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

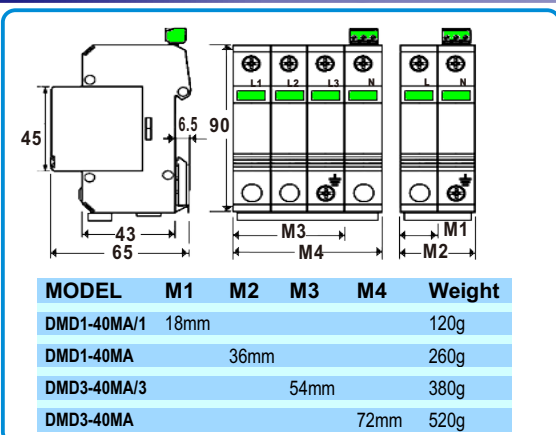


For detail installation requirements, pls refer to relevant user manual.

## Basic Block Diagram



## Dimensions & weight



## General Specifications

SPD class(EN/IEC):	Type 2/Class II
Nominal working voltage, Un:	230/240 V(L-N), 400/415 V(L-L)
Max. working voltage, Uc:	275V
Operating frequency:	40-60Hz
Earth leakage current:	10μA
Max. discharge current, I <sub>max</sub> :	40KA (L -N, N-PE) (8/20μs)
Nominal discharge current, I <sub>n</sub> :	20KA (L -N, N-PE) (8/20μs)
Impulse discharge current, I <sub>imp</sub> :	10KA(L-N, N-PE) (10/350μs)
Voltage protection level, U <sub>p</sub> :	<700V (L-N, N-PE)@3KA <1200V(L-N), <1500V(N-PE)@I <sub>n</sub>
TOV characteristics at U <sub>T</sub> (V):	340V(5s-withstand), 440V(120 min.safe failure)
Short circuit current rating, I <sub>scCR</sub> :	25KA
Protection technology	MOV
Protection mode:	L-N, N-PE
Response time, t <sub>A</sub> :	<5ns
Standards compliance:	BS EN/IEC61643-11:2011 AS1768-2007 Cat.A.B.C IEEE C62.41-1991 IEEE C62.41.2-2002 UL1449 4th edition
Alarm isolation:	4KV
Status indicator:	Mechanical Indicator (Green=OK. Red=Fault)
Optional Alarm(volt free contact):	N/O, N/C(2A @250Vac)
Alarm conductor size:	2.5mm <sup>2</sup>
Conductor size:	35mm <sup>2</sup> (stranded)
Case material:	Thermal Plastic UL94-V0
Mounting:	35mm DIN rail (DIN43880, EN50022)
Back up overcurrent protection:	125A (gL/gG)
Degree of protection:	IP20
Operating temperature, T <sub>u</sub> :	-40-85°C
Humidity:	0-95%(R.H.)
Altitude:	0-3650m