

DINRAIL MODULAR DIVERTER



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

- ◆ **Plug-in protection modules for easy maintenance**
- ◆ **All mode protection**
- ◆ **High surge handling capability**
- ◆ **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-N, 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 - 80KA 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.

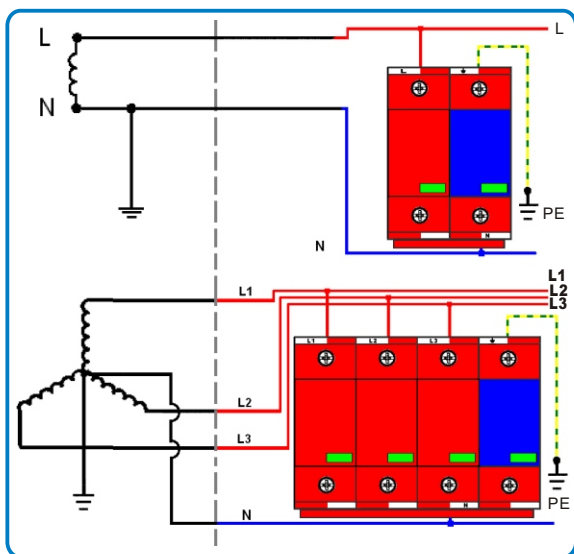
Remote monitoring - All models features optional voltage free contacts with normal open/normal close contacts

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 DIN rail.

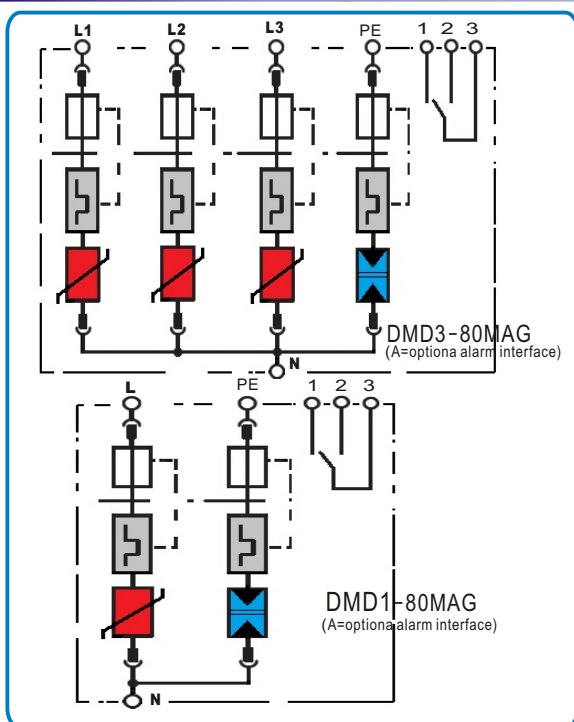
Installation

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

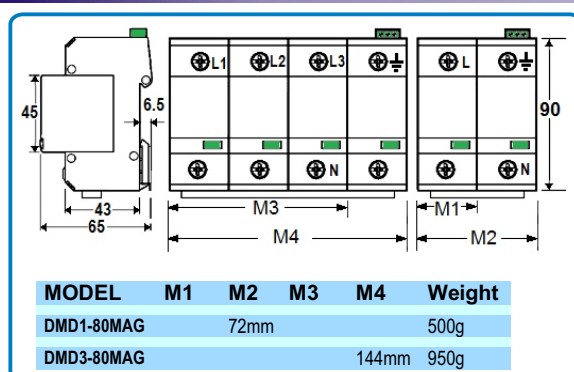


For detail installation requirements, pls refer to relevant user manual.

Basic Block Diagram



Dimensions & weight



General Specifications

SPD class(EN/IEC):	Type 1/Class I
Nominal working voltage, U_n :	230V(L-N)
Max. working voltage, U_c :	275V(L-N), 260V(N-PE)
Operating frequency:	40-60Hz
Earth leakage current:	0μA
Max. discharge current, I_{max} :	80KA(L-N), (8/20μs) 100KA(N-PE), (8/20μs)
Nominal discharge current, I_n :	40KA(L-N), (8/20μs) 50KA(N-PE), (8/20μs)
Impulse discharge current, I_{imp} :	20KA(L-N), (10/350μs) 50KA(N-PE), (10/350μs)
Let through energy:	151J
Voltage protection level, U_p :	<700V(L-N), <250V(N-PE), @3KA <1250V(L-N), <600V(N-PE), @In
TOV characteristics at U_r (V):	1200V(N-PE, 200ms-withstand) 340V (L-N, 5s-withstand) 440V(L-N, 120 min.safe failure)
Short circuit current rating, I_{scCR} :	>60KA
Follow current quenching capability:	100A(N-PE)
Protection mode:	L-N, N-PE
Protection technology:	L-N(MOV), N-PE(Spark-gap)
Response time, t_A :	<5ns(L-N) <100ns(N-PE)
Standards compliance:	BS EN/IEC 61643-11:2011 class I AS1768-2007 Cat.A.B.C IEEE C62.41 Cat.A.B.C UL1449 4th edition
Alarm isolation:	4KV
Status indicator:	Mechanical Indicator (Green=OK. Red=Fault)
Alarm(volt free contact):	N/O, N/C(2A @250Vac)
Alarm conductor size:	2.5mm ²
Conductor size:	35mm ² (stranded)
Case material:	Thermal Plastic UL94-V0
Mounting:	35mm DIN rail (DIN 43880)
Back up overcurrent protection:	250A (gL/gG)
IP rating:	IP20
Operating temperature, T_u :	-40-85°C
Humidity:	0-95%(R.H.)
Altitude:	0-3650m