

DINRAIL MODULAR PROTECTOR



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 DMP series surge protectors 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 DMP series surge protectors 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 DMP series protectors an economical choice for total facility protection.

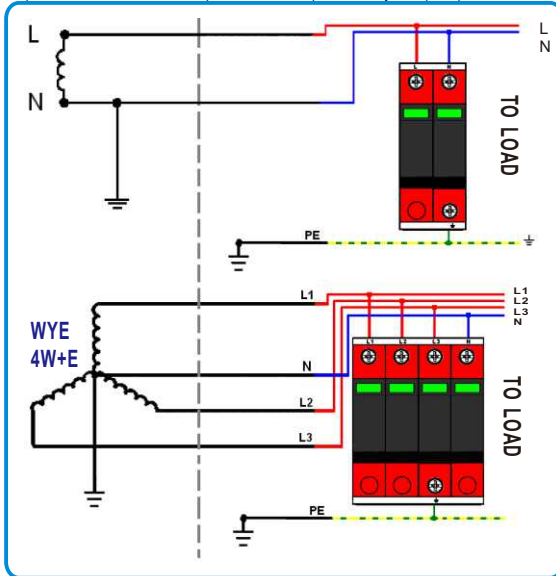
Status indication - All models have mechanical indicator per phase to monitor the integrity of protection.

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.

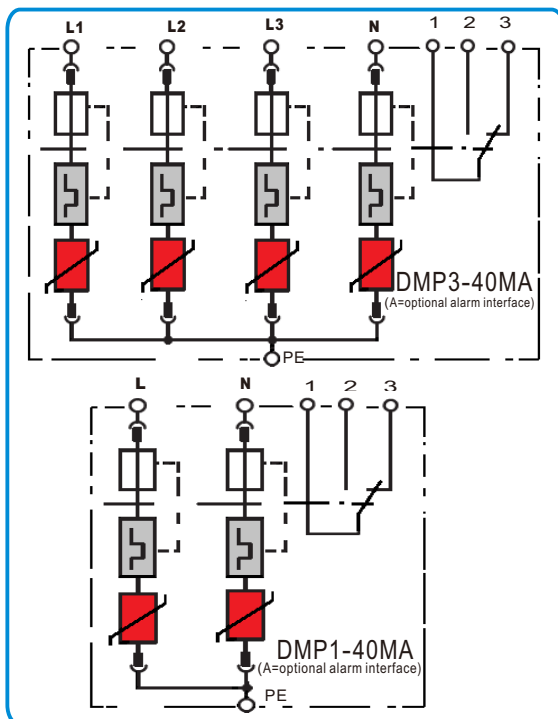
Installation

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

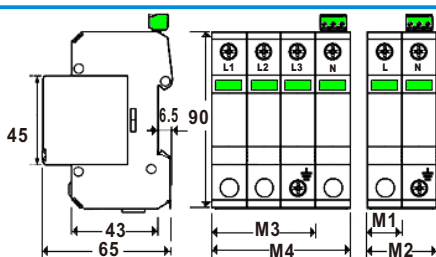


For detail installation requirements, pls refer to relevant user manual.

Basic Block Diagram



Dimensions & weight



MODEL	M1	M2	M3	M4	Weight
DMP1-40MA/1	18mm				120g
DMP1-40MA		36mm			260g
DMP3-40MA/3			54mm		380g
DMP3-40MA				72mm	520g

General Specifications

SPD class(EN/IEC):	Type 2/Class II
Max. working voltage, U_n :	240/415AC
Operating frequency:	40-60Hz
Earth leakage current:	10 μ A
Max. discharge current, I_{max} :	40KA, (8/20 μ s)
Nominal discharge current, I_n :	20KA, (8/20 μ s)
Let through voltage (TOVs):	<265V @ TOVs surge current (>5A, 50Hz, in 0.1 second)
Residual voltage (Transient), U_p :	<1.0V @ combination 3KA &6KV test
Clamping voltage:	300V \pm 10% @ current >100mA, 50Hz
TOVs surge current:	>5A, 50Hz, in 0.1 second
Protection mode:	L-N, N-PE
Protection technology:	MOV
Response time, t_a :	<5ns
Standards compliance:	BS EN/IEC 61643-11:2011 class II 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)
Optional 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:	125A (gL/gG)
IP rating:	IP20
Operating temperature, T_u :	-40-85 $^{\circ}$ C
Humidity:	0-95%(R.H.)
Altitude:	0-3650m