POWER SURGE PROTECTOR

Description

MARSA surge protectors are designed to protect single phase and three phase electrical supply system. Installed parallel to incoming power feeder. The range of products can divert up to 80kA surge current per phase (L-N), (L-E), (N-E) generated in electrical power line to the earth. Protection is effective in diverting the lightning surge, internally generated and over-charging transient conditions.

Features and Benefits

- Full mode protection with 7 MOVs. All mode protection covers Line- Natural (L-N), Line-Earth (L-E) and Neutral – Earth (N-E).
- Monoblock protection and each mode protect by single MOV with the same current rating.
- Ensure reliability of surge protector to the facilities and equipment.
- Transient over current protector.
- Double protection unit suitable to Malaysia extreme lightning condition and frequency.
- Provide light indicator.

SINGLE PHASE

PSP1-20240

- Withstand surge current 20kA per phase (L-N), (L-E), (N-E).
- Designed for single phase power line. Suitable for main Switch Board, Sub Switch and Distribution Board, with incoming cable 35 mm² or less.
- Suitable for electrical, electronic and mechanical equipment (control system).

PSP1-40240

- Withstand surge current 40kA per phase (L-N), (L-E), (N-E).
- Designed for single phase power line. Suitable for main Switch Board, Sub Switch and Distribution Board, with incoming cable 95 mm² or less.
- Suitable for electrical, electronic and mechanical equipment (control system).

STANDARD OF COMPLIANCES

MS IEC 61643-1
MS IEC 61643-12

REFERENCES STANDARD

IEEE C62.41
BS 6651

Important

* This product is warranted only for manufacturing defects.The warranty period is two years and began on the date of purchased.
* The warranty does not apply for any misused, altered, neglected or damaged by accident or abnormal conditions of operation or handling.
* Make sure disconnect the SPD while doing the equipment testing (System/Load).
* Warranty support is available if product is purchased through MARSA distributors sales marketing.

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THREE PHASE

PSP1-20415

- Withstand surge current 20kA per phase (L-N), (L-E) and (N-E).
- Designed for three phase power line. Suitable for main Switch Board, Sub Switch Board and Distribution Board, with incoming cable 35 mm² or less.
- Suitable for electrical, electronic and mechanical equipment (control system).

PSP1-40415

- Withstand surge current 40kA per phase (L-N), (L-E) and (N-E).
- Designed for three phase power line. Suitable for main Switch Board, Sub Switch Board and Distribution Board, with incoming cable 95 mm² or less.
- Suitable for electrical, electronic and mechanical equipment (control system).

PSP1- 80415

- Withstand surge current 80 kA per phase (L-N), (L-E) and (N-E).
- Designed for three phase power line. Suitable for main Switch Board, Sub Switch and Distribution Board, with incoming cable 95 mm² or more.
- Suitable for electrical, electronic and mechanical equipment (control system).

STANDARD OF COMPLIANCES

MS IEC 61643-1
MS IEC 61643-12

STANDARD OF REFERENCES

IEEE C62.41
BS 6651

Selection Guide

POWER SURGE PROTECTOR

- Single Phase
  - PSP1-20240
  - PSP1-40240
- Three Phase
  - PSP1-20415
  - PSP1-40415
  - PSP1-80415

PSPχ - yyzzz

- PSPχ → Power Surge Protector
- yyzzz → Nominal Voltage
- yyzzz → Current Rating
- yyzzz → Seriel Number

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SPECIFICATION
Single Phase & Three Phase

SPECIFICATION	PSP1 MODEL
Description/Type	Parallel surge protector
Protection mode	Full Mode (L-N, L-E, N-E)
Backup Overcurrent protector / Overheat	Thermal fuse for every MOV
Frequency range	40 Hz - 60Hz
Earth Leakage current	<200µA
Temperature range	-40◦ C to +85◦ C
Humidity	0-90%
Connection type	Screw terminal
Max. Conductor Size	16mm²
Display	LED Indicator status
STANDARD OF COMPLIANCES	MS IEC 61643-1 MS IEC 61643-12
REFERENCES STANDARD	IEEE C62.41 BS 6651

SPECIFICATION	PSP1 20240	PSP1 40240	PSP1 20415	PSP1 40415	PSP1 80415
Current surge rating per phase- (I_n) (L-N), (L-E), (N-E).	20kA	40kA	20kA	40kA	80kA
Total current protection rating, Imax	40kA	60kA	40kA	60kA	100kA
Nominal voltage (RMS), (U_n)	240V	240V	415V	415V	415V
Working voltage (RMS), (U_c)	215-275V	215-275V	373-475V	373-475V	373-475V
Let Through Voltage, (U_p) 20kV 1.2/50µs open circuit voltage 10kA 8/20µs short circuit current,	<1.7kV	<1.7kV	<1.7kV	<1.8kV	<1.8kV
Let Through Voltage, (U_p) 10kV 1.2/50µs open circuit voltage 5kA 8/20µs short circuit current,	1.2kV	1.2kV	1.2kV	1.2kV	1.2kV
Let Through Voltage, (U_p) 6kV 1.2/50µs open circuit voltage 3kA 8/20µs short circuit current,	<650V	<750V	<700V	<750V	<900V
Weight per unit	540g	540g	920g	960g	1.4kg

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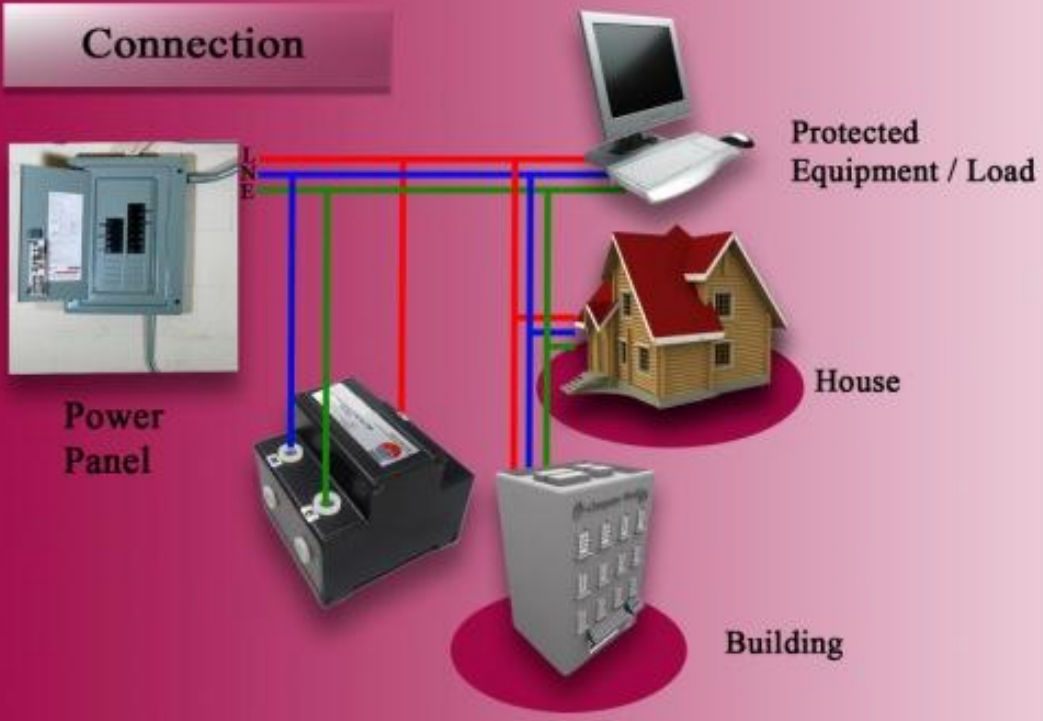
SINGLE PHASE

Connection



THREE PHASE

Connection

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