

CPSD PLUG-A-BLOCK SYSTEM

APPLICATION: SMALL, REMOTE AND HEAVY DUTY SITES.

WITH MDS TECHNOLOGY

EASY FOR MAINTENANCE: Just PLUG-OUT and replace

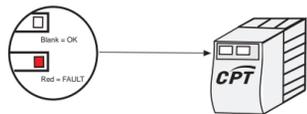
1 PLUG-A-BLOCK MODULE

Pluggable (male) ready-wired panel, consisting of a complete built-in circuit with individual surge protection for each phase.

2 SOCKET WALL MOUNTED MODULE

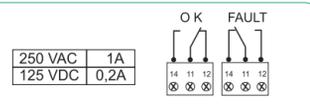
Easy screw-in panel to be mounted on wall. It consist of built-in wire terminals which can be safely connected to the installation. It will remain as a fix part (female socket) in case of maintenance. Plug (male) Module will be replaced and due for maintenance at back service inspection.

3 SURGE PROTECTION PHASE MODULES



4 SURGE EVENT REGISTER

5 REMOTE INDICATION CONNECTION (IR)

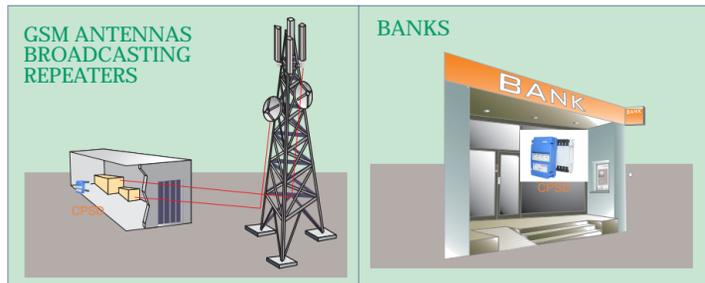


MODELS AVAILABLE

| VOLTAGE | PHASE CONFIGURATION | DISCHARGE CURRENT | CPS MODEL |
|---|------------------------------|-------------------|-----------|
| 120 V, 230 V | 1-PHASE, 2W+G | 240 - 400 kA | CPSD_M_C |
| 120 / 240 V | SPLIT PHASE, 3W+G | 300 kA | CPSD_S_C |
| 120 / 208 V 230 / 400 V 277 / 480 V | 3-PHASE WYE, 4W+G | 400 kA | CPSD_T_C |
| 240 V 400 V 480 V | 3-PHASE DELTA, 3W+G | 300 kA | CPSD_D_C |
| 120 / 240 V | 3-PHASE High-Leg DELTA, 4W+G | 400 kA | CPSD_H_C |

WHERE TO BE USED?

- EASY FOR REMOTE MAINTENANCE. JUST PLUG-OUT AND MAINTAIN.
- IDEAL FOR SMALL REMOTE AREA INSTALLATIONS AND SERVICE INDUSTRY.
- IDEAL FOR ISOLATED PRIVATE HOMES, PETROL STATIONS.



CPS Series has been specially designed with the purpose of making Surge Protection SAFER and EASIER to install.

SAFER: with the MDS Technology, CIRPROTEC CPS units provide a surge protection safety with extra back-up protection features. Hence: a full protection and easy maintenance for equipment is guaranteed.

EASIER: CPS units guarantee a centralized surge protection in one only unit, and fast maintenance possibilities.

Plug-and-play is the concept that summarizes CPS series: easy to install, easy to maintain, covers full surge protection in one.



CPS

The intelligent protection way

TRANSIENT SURGE SUPPRESSION

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WHY DO YOU WANT TO USE CPS SERIES?

Centralized Protection System gives you following advantages:

- Centralized** To be installed in only one central point: Main incomer of the installation.
- Protection** Covers and protects all existing downstream sensitive devices connected to the installation.
- System** CPS series, not only provides a complete and centralized solution for surge protection, but can also be composed of additional features such as:
 - Network Analysis.
 - Voltage Monitoring.
 - Surge event register.

MDS TECHNOLOGY

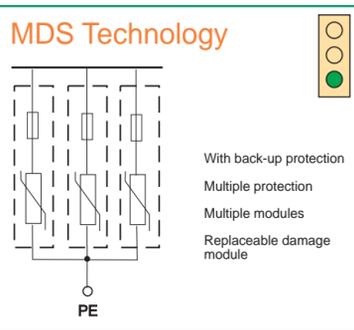
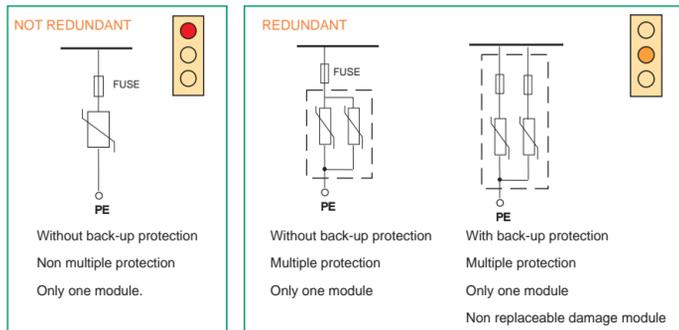
MDS is a new concept of surge protection. It's a system developed to execute two functions: to withstand high level current discharges and to absorb repetitive surges.

The MDS is based one system of multiple SPD's combined with individual disconnection devices, already calibrated and tested according to **IEC-61643-11**, **British Standard BS6651 (Appendix 'C')**, **ANSI/IEEE C62.41-1991** and **UL 1449**., which allows its reliability and durability. Back-up protection is guaranteed in case of repeated events.

CPS series is a new concept of Surge Protection Design. It consists of a modular redundant system in which:

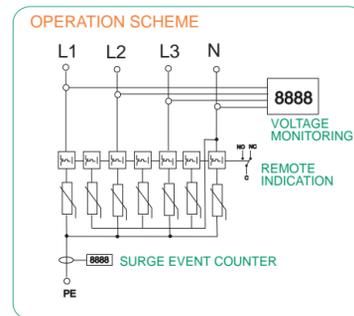
- Each module can be individually replaced in case of defect after discharge damage.
- Each module has an individual aging status indicator.
- Each module has a free-of-voltage contact for remote indication.
- Number of total surges is recorded in the unit.

WHAT IS THE REDUNDANT PROTECTION SYSTEM?



WHAT IS CPS VALUE PROPOSITION

- Centralized Surge Protection unit.
- Switchboard Transient Surge Protection for highly exposed zones. Up to 840 kA maximum discharge current in one switchboard only.
- Redundant Protection.
- Frontal monitoring of individual transient protection status for: suitable network operation, surge events, true RMS voltage measure, alarm indication with red LED.
- Individual thermal protection for each transient protection module.
- Remote indication for each individual transient surge protector.
- Remote alarm indication when the maximum voltage is exceeded.
- Easy to install: one only entry point. Parallel connection to the network.

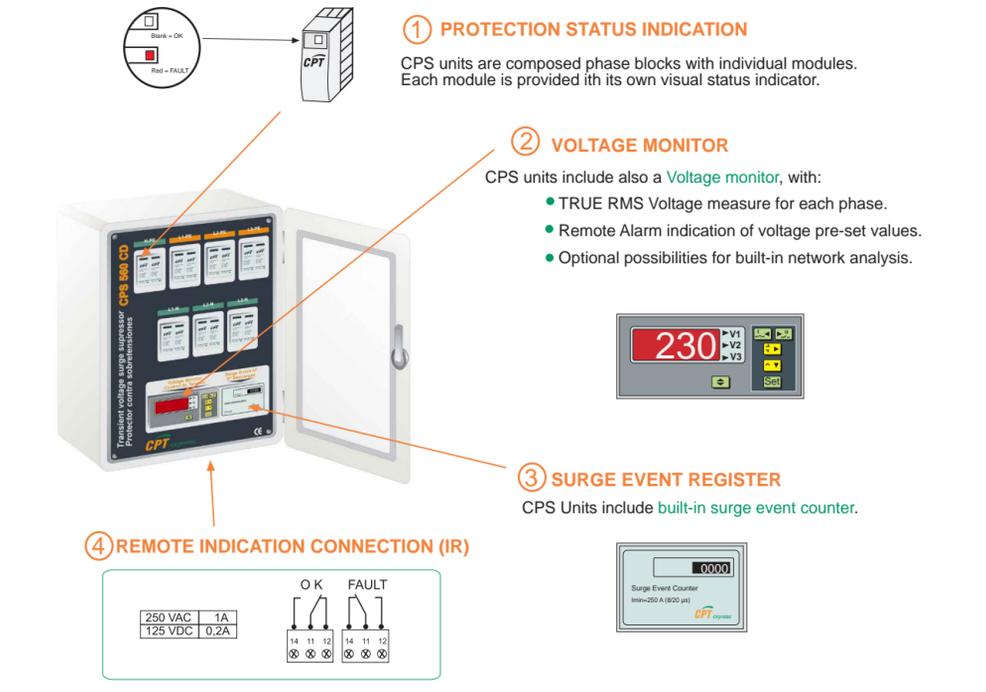


CPS COMPACT SYSTEM

WITH MDS TECHNOLOGY

APPLICATION: MAIN INCOMER - BRANCH PANELS

PLUG AND PLAY: JUST ONE INSTALLATION



MODELS AVAILABLE (see next page)

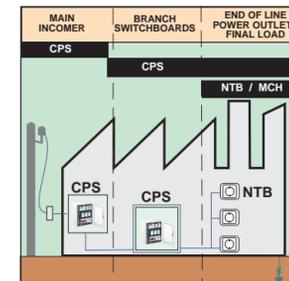
| VOLTAGE | PHASE CONFIGURATION | DISCHARGE CURRENT | CPS MODEL |
|---|------------------------------|-------------------|-----------|
| 120 V, 230 V | 1-PHASE, 2W+G | 120 - 360 kA | M |
| 120 / 240 V | SPLIT PHASE, 3W+G | 200 - 600 kA | S |
| 120 / 208 V 230 / 400 V 277 / 480 V | 3-PHASE WYE, 4W+G | 280 - 1140 kA | T |
| 240 V 400 V 480 V | 3-PHASE DELTA, 3W+G | 240 - 720 kA | D |
| 120 / 240 V | 3-PHASE High-Leg DELTA, 4w+G | 280 - 840 kA | H |

WHERE TO BE USED?

SURGE PROTECTION FOR INDUSTRIAL, BUILDINGS, WARE HOUSES, MALLS AND COMMERCIAL COMPLEX.

Depending on DISCHARGE ratings CPS is meant to be use in:

- MAIN INCOMER
- BRANCH PANELS



CPS CONFIGURATION AVAILABLE

MODEL M 1-PHASE, 2W + G

CPS_M_CD **CPS_M_C**

120 V
230 V

kA Total: 120, 240, 360 kA

kA Total: 80, 160, 240 kA

MODEL S SPLIT PHASE, 3W + G

CPS_S_CD **CPS_S_C**

120 / 240 V

kA Total: 200, 400, 600 kA

kA Total: 120, 240, 360 kA

MODEL T 3-PHASE WYE, 4W + G

CPS_T_CD **CPS_T_C**

120 / 208 V
230 / 400 V
277 / 480 V

kA Total: 280, 560, 840 kA

kA Total: 160, 320, 480 kA

MODEL D 3-PHASE DELTA, 3W + G

CPS_D_CD **CPS_D_C**

240 V
400 V
480 V

kA Total: 240, 480, 720 kA

kA Total: 120, 240, 360 kA

MODEL H 3-PHASE High-Leg DELTA, 4W + G

CPS_H_CD **CPS_H_C**

120 / 240 V

kA Total: 280, 560, 840 kA

kA Total: 160, 320, 480 kA