

CPS block & block plus



UL & IEC Duality

The CPS nano range brings together Cirprotec's experience of the principal international manufacturing and test standards for SPDs

MDS

Redundant Multi Discharge System varistor technology with individual disconnection of each MOV



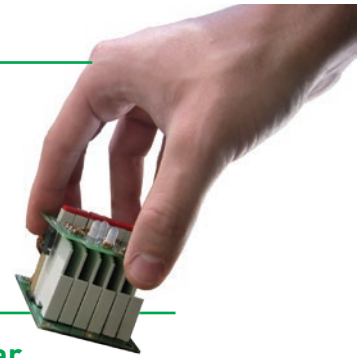
IAD®

The *intelligent aging display* (IAD®) provides visual information about the remaining percentage of protection available in each mode of the CPS block and CPS block plus (100%, 66%, 33%, 0% each mode).



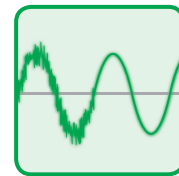
Remote indication

The IR Remote indication provides an end-of-life signal via a double-throw relay.



Modular

Each protection mode can be individually replaced if it reaches end of life. This allows for efficient preventive maintenance.



EMI / RFI Filter

All models include an electromagnetic filter for network noise.

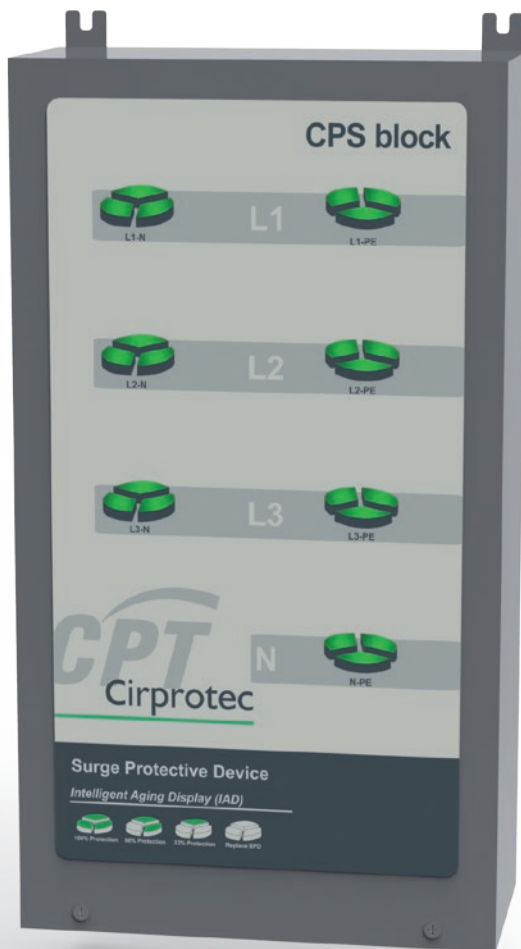


Surge counter

CPS block plus includes a surge event counter which displays the number of arrested voltage peaks.

CPS block

Modular Surge Protective Device (SPD) designed according to standards UL 1449 3rd ed. and IEC 61643-11 for installation in main panels or distribution panels with high exposure ratings. The CPS block provides comprehensive protection for a wide range of networks and voltages and also reduces maintenance costs due to its modular construction and the IAD[®] function.



Features

- Type 2, “Permanently connected” SPDs intended for installation on the load side of the service equipment (main panel) overcurrent device; including SPDs located at the branch panel.
- Maximum 8/20 discharge capacity (I_{max}) from 120 to 200 kA per phase.
- Nominal Rated 8/20 discharge current rating (I_n) of 20 kA per phase.
- Redundant *Multi Discharge* System varistor technology with individual disconnection of each MOV.
- Common and differential mode protection.
- EMI / RFI Filter.
- Intelligent aging display (IAD[®]): end-of-life indication LEDs of the % of remaining protection available for each mode (100%, 66%, 33% or 0%).
- Replaceable protection modules.
- Nema 12.
- Remote indication of end of life.

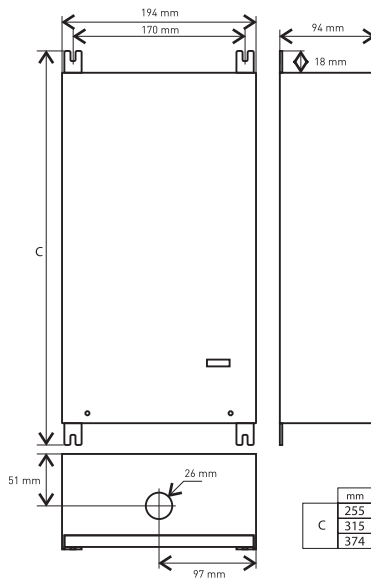


Specifications

Models		Split Phase	1 Phase			3 Phase WYE			3 Phase Delta			High leg Delta
Classification according to UL 1449-3rd Edition		Type 2										
Classification according to IEC 61643-11		Class II										
Protection modes		Common and differential mode protection										
Nominal voltage rating AC 50-60 Hz	U_n [V]	120	120	230	120/208	230/400	277/480	240	400	480	120/240	
Maximum continuous operating voltage AC 50-60 Hz	MCOV [V]	175	175	320	175	320	385	275	420	510	175/320	
Maximum discharge capacity per phase / Nominal discharge capacity per phase	I_{max} /phase [kA] / I_n /phase [kA]	120/20										
		160/20										
		200/20										
Voltage protection rating (L-N/L-G/N-G)	VPR [V]	600	600	1000	600	1000	1200	900	1500	1800	600	
Voltage protection rating (L-L)		1200	----	----	1200	2000	2400	900	1500	1800	1200	
Voltage protection rating (L_{HL} -N/ L_{HL} -G)		----	----	----	----	----	----	----	----	----	1000	
Voltage protection rating (L_{HL} -L)		----	----	----	----	----	----	----	----	----	1200	
Maximum back-up fuse	[A gL]	80										
Short-circuit current rating	SCCR [kA]	200										
Response time	t_A [ns]	1										
Multi-Discharge System (MDS)		Yes										
Dynamic thermal disconnection		Yes										
Remote indication (RI)		Yes										
Status indicator LED		Yes										
Intelligent aging display (IAD®) LEDs		100% - 66% - 33% - 0% of each protection mode										
Enclosure type		IP 55 /NEMA 12										
Material		Sheet steel										



Dimensions



Certification



Selection Guide

Code: **777986 Y Z**

Y	I_{max} / phase
1	120kA
3	160kA
5	200kA

Z	Red	V[L-N]
1	1 Phase	120 V
2	1 Phase	230 V
3	Split Phase	120 V
4	3 Phase WYE	120 V
5	3 Phase WYE	230 V
6	3 Phase WYE	277 V
7	3 Phase Delta	240 V
8	3 Phase Delta	400 V
9	3 Phase Delta	480 V
0	High Leg Delta	120 V

CPS block plus

Modular Surge Protective Device (SPD) designed according to standards UL 1449 3rd ed. and IEC 61.643-11 for installation in main panels or distribution panels with high exposure ratings. The CPS block plus provides comprehensive protection for a wide range of networks and voltages and also reduces maintenance costs due to its modular construction, the IAD® function and the incorporation of a surge counter.



Features

- Type 2, “Permanently connected” SPDs intended for installation on the load side of the service equipment (main panel) overcurrent device; including SPDs located at the branch panel.
- Maximum 8/20 discharge capacity (I_{max}) from 120 to 240 kA per phase.
- Nominal 8/20 discharge current rating (I_n) of 20 kA per phase
Redundant *Multi Discharge* System varistor technology with individual disconnection of each MOV.
- Common and differential mode protection.
- EMI / RFI Filter.
- Intelligent aging display (IAD®): end-of-life indication LEDs of the % of remaining protection available for each mode (100%, 66%, 33% or 0%).
- Surge counter.
- Replaceable protection modules.
- Nema 12.
- Remote indication of end of life.

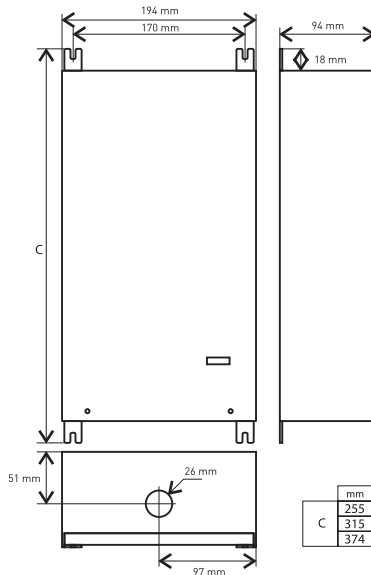


Specifications

Models	Split Phase	1 Phase			3 Phase WYE			3 Phase Delta			High leg Delta	
Classification according to UL 1449-3rd Edition	Type 2											
Classification according to IEC 61643-11	Class II											
Protection modes	Common and differential mode protection											
Nominal voltage rating AC 50-60 Hz	U _n [V]	120	120	230	120/208	230/400	277/480	240	400	480	120/240	
Maximum continuous operating voltage AC 50-60 Hz	MCOV [V]	175	175	320	175	320	385	275	420	510	175/320	
Maximum discharge capacity per phase / Nominal discharge capacity per phase	I _{max} /phase[kA]/ I _n /phase [kA]	120/20										
		160/20										
		200/20										
		240/20										
Voltage protection rating (L-N/L-G/N-G)	VPR [V]	600	600	1000	600	1000	1200	900	1500	1800	600	
Voltage protection rating (L-L)		1200	----	----	1200	2000	2400	900	1500	1800	1200	
Voltage protection rating (L _{HL} -N/L _{HL} -G)		----	----	----	----	----	----	----	----	----	1000	
Voltage protection rating (L _{HL} -L)		----	----	----	----	----	----	----	----	----	1200	
Maximum back-up fuse	[A gL]	80										
Short-circuit current rating	SCCR [kA]	200										
Response time	t _A [ns]	1										
Multi-Discharge System (MDS)		Yes										
Dynamic thermal disconnection		Yes										
Desconexión dinámica térmica		Yes										
Remote indication (RI)		Yes										
Status indicator LED		Yes										
Intelligent aging display (IAD®) LED		100% - 66% - 33% - 0% of each protection mode										
EMI Filter		< 40 dB										
Enclosure type		IP 55 /NEMA 12										
Material		Sheet steel										



Dimensions



Certification



Selection Guide

Code: **777987 Y Z**

Y	I _{max} / phase
1	120kA
3	160kA
5	200kA
7	240kA

Z	Red	V(L-N)
2	1 Phase	230 V
3	Split Phase	120 V
4	3 Phase WYE	120 V
5	3 Phase WYE	230 V
6	3 Phase WYE	277 V
7	3 Phase Delta	240 V
8	3 Phase Delta	400 V
9	3 Phase Delta	480 V
0	High Leg Delta	120 V