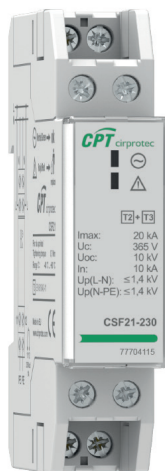


# CSF 21 2+0

Power Line SPDs

DIN RAIL - IEC TYPE 2+3



## General Data

Internal configuration	2+0
No. Poles	2-Pole
No. DIN rail modules	1
Network configuration	TT, TNS
IEC SPD Type	Class II + III
EN SPD Type	Type 2+3
Format	Slim Monobloc
Protection Modes	L-N / L-PE
Product standards	IEC 61643-11; EN 61643-11



## PART NUMBERS

XXX	12	24	48	60	120	230
CSF21-XXX	77704101	77704103	77704105	77704107	77704109	77704115
CSF21-XXX IR (with Remote Indication)	77704102	77704104	77704106	77704108	77704110	77704116

## SURGE PROTECTION DEVICE (SPD) - IEC TECHNICAL FEATURES

CSF21-XXX, CSF21-XXX IR (with Remote Indication)	12	24	48	60	120	230	
Maximum continuous operating voltage (AC) - Uc (L-N) [V]	20	30	60	75	150	275	
Maximum continuous operating voltage (DC) - Uc (L1-L2) [V]	25	36	77	100	200	275	
Nominal voltage AC 50-60 Hz - Un [V]	12	24	48	60	120	230	
Nominal voltage AC 50-60 Hz - Un(L-N) [V]	12	24	48	60	120	230	
Nominal discharge current (8/20) - In (L-N) [kA]						3	10
Max Discharge Current (8/20) - I <sub>max</sub> (L-N) [kA]						6	20
Voltage protection level at In - Up (L-N) [kV]	≤0,22	≤0,25	≤0,33	≤0,5	≤0,7	≤1,4	
Voltage protection level at In - Up (L-PE) [kV]				≤0,9		≤1,4	
Voltage protection level at In - Up (N-PE) [kV]				≤0,9		≤1,4	
Combined Discharge Voltage (1,2/50) (Uoc) [kV]	6					10	
Maximum back-up fuse [A [gG]]						63	
Short circuit withstand- I <sub>sc</sub> [kA]						10	
Response time - t <sub>A</sub> (L-N) [ns]						≤25	
Response time - t <sub>A</sub> (L-PE) [ns]						≤100	
Response time - t <sub>A</sub> (N-PE) [ns]						≤100	
Dynamic thermal disconnection						Yes	

## SURGE PROTECTION DEVICE (SPD) - UL TECHNICAL FEATURES

CSF21-XXX, CSF21-XXX IR (with Remote Indication)	12	24	48	60	120	230
Maximum continuous operating voltage - MCOV (L-N)					440	

## DATASHEET

This document is subject to change at any time without notice [www.cirprotec.com](http://www.cirprotec.com) | Lepanto 49 · 08223 Terrassa, Barcelona Spain © 2024 Cirprotec SLU | All rights reserved

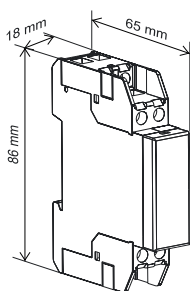
**cirprotec**

# CSF 21 2+0

## MECHANICAL AND ENVIRONMENTAL FEATURES

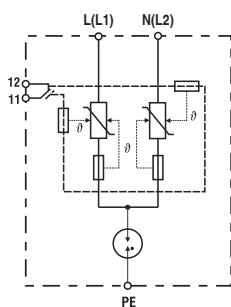
CSF21-XXX, CSF21-XXX IR (with Remote Indication)	12	24	48	60	120	230
Temperature range [°C]				-40 ... 80		
Humidity range [%]				5 ... 95		
Insulating material				PC+GF		
Housing color				Grey RAL 7035		
Enclosure - IP				IP20		
Flammability class				UL94 V-0		
Solid conductor cross section				1.5...6 mm <sup>2</sup>		
Stranded conductor cross section				1.5...6 mm <sup>2</sup>		
Solid conductor AWG dimensions				#8...#16		
Stranded conductor AWG dimensions				#8...#16		
Torque rating [N m]				0.7		

## DIMENSIONS AND WEIGHT



CSF21-XXX CSF21-XXX IR (with Remote Indication)	12	24	48	60	120	230
Net Weight [kg]	0.063	0.068	0.063	0.052	0.071	0.073
Gross weight [kg]	0.069	0.073	0.069	0.057	0.076	0.077
Packaging dimensions (H x W x L) [mm]	85 × 20 × 66					

## INTERNAL CONFIGURATION



## DATASHEET