

Surge Protection

EnerPro 120, 230 CG/10kA

EnerPro ... CG

Single phase SPD protection category **T2** (C) and **T3** (D) meeting the requirements of class II and III

For protection of 16A systems and single equipments



- Universal Category **T2** and **T3** Surge Protective Device (SPD)
- Based on MOV and hermetically encapsulated gas filled spark gaps
- Leakage-current-free to protect foundation grounding lines
- Can be co-ordinated with upstream installed LEUTRON **T1** lightning current SPD
- Low protection level and high protection of max 15kA (8/20 μ s)
- Optical function control by LED
- Universal mounting on C or G form DIN rail

Product description:

Leutron leakage current free SPDs of series EnerPro...CG... are designed to be used for overvoltage protection for electric AC systems or equipments with max 16A power consumption.

One phase and the neutral line N is protected. It is a symmetric construction with protected and unprotected side.

Usually installed in subdistribution panels, or near to equipment to be protected. Two standard voltages, 120 V AC and 230V AC are available for worldwide use.

These SPDs are used as economic surge protectors for electronic equipments and systems with max 16A power consumption.

They are fitted with a thermal protection contact (NC), which respond if the varistor exceed a certain level of temperature due to thermal overload.

These thermal protection contact works in such a way, that it only cut off the SPD from the power supply to protect against overheating, whilst the electrical equipment will not suffer any functioning failure; in that case the green signal LED will extinguish.

The protective circuit is installed in an universal and compact housing with snap-on clips for 35 mm C form or G form DIN rail mounting.

Protects People and Valuables

Technical Data:

Type	Art. No.:	Remarks
EnerPro 120 CG /10kA	39 10 11	120V AC, resp. one phase and neutral (L, N – PE)
EnerPro 230 CG /10kA	39 10 22	230V AC, resp. one phase and neutral (L, N – PE)

Test standard: IEC 61643-11 / EN 61643-11			T2 class II / T3 class III	
			EnerPro 120 CG /10kA	EnerPro 230 CG /10kA
Nominal line voltage 50/60 Hz	U_N	[V]	110 / 200	230 / 400
Max. continuous operating voltage (50/60 Hz)	U_C	[V]	132	275
Max. permissible line- or backup fuse			16 A gL/gG	
Nominal discharge current (8/20 μ s)	I_n	[kA]	10x 10	
Max. discharge current (8/20 μ s)	I_{max}	[kA]	1x 15	
Protection level at 5kA (8/20 μ s)	U_p	[kV]	≤ 0.7	≤ 0.8
Protection level at I_n (8/20 μ s)	U_p	[kV]	≤ 1.0	≤ 1.2
Protection level at I_{max} (8/20 μ s)	U_p	[kV]	≤ 1.2	≤ 1.4
Response time	t_A		< 25 ns	
Operating temperature range	T		-40 ... +85°C	
Max. cross-sectional area		[mm ²]	6 stranded / 4 flexible	
Recommended cross-sectional area		[mm ²]	6 stranded / 4 flexible	
Material of housing / colour	Polyamid 66 / UL94-V0 / grey with yellow frontlabel			
Filling material for higher performance and humidity protection	Soft Polyurethan			
Degree of protection (IEC EN 60529)	IP 20			
Mounting on	DIN rail 35mm form C (DIN / EN 50022) and form G			

Dimension in mm

Diagram

EnerPro 120, 230 CG/10kA
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Subject to technical modifications and delivery possibilities

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