





-  **Common mode and differential mode protection for equipment up to 16 A**
-  **No leakage currents into PE**
-  **Thermal supervisory device**
-  **Optional remote signalling contact**

Category D (Equipment) Surge Protective Devices

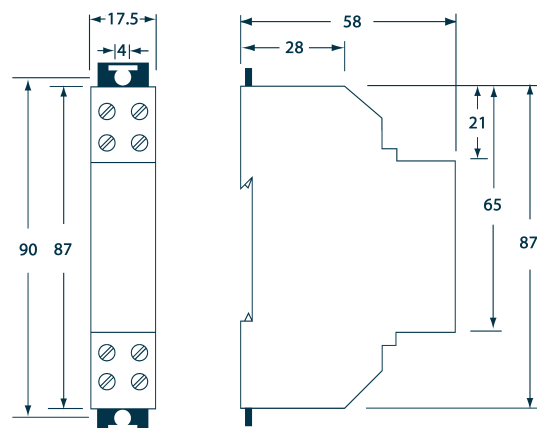
Product description

EnerPro220Tr/5kA is used for surge protection of 230V inputs in category D. It is placed in an easy to handle snap-on housing for 35 mm DIN rail mounting. A green LED signal indicates if the operating voltage is at the correct level and if the protective circuit is in full working order.

Automatically extinguishing valve surge protectors are used for the PE whilst varistors are installed between phase and neutral conduit. Once the surge voltage has been arrested and the lightning current pulses have been discharged, the follow-on current in the mains is ex-

tinguished automatically. The gas-filled arrester leading to the PE makes sure that the protective conductor is loaded by leakage current surges from the varistors.

EnerPro220Tr/5kA has a thermal disconnection device which will respond should the varistors emit leakage current surges due to overloading. The thermal disconnecter is located in the vertical branch, thus making sure that only the surge protective device is cut off from the mains (no operating disruption); in this case the green LED signal is switched off and the optional potential-free contact opens.



Technical Data

Application ● Category D two-pole surge protective device for 230 V equipment

Type	EnerPro220Tr/5kA		
Protection category	D		
Rated voltage 50/60 Hz	U_N	[V~]	230 /50 Hz
Max. operating voltage (50 Hz)	$U_{max.}$	[V~]	275 /50 Hz
Max. permissible line resp. backup fuse	I	[A]	16 A gL
Impulse spark-over voltage at 1 kV/ μ s (L1, N-PE)	U_{as}	[kV]	≤ 1.0
Protection level at i_{sN} (L1, N-PE)	U_{rest}	[kV]	≤ 1.0
Response time	t_A	[ns]	≤ 25
Nom. impulse discharge current (8/20 μ s) L1, N-PE	i_{sN}	[kA]	5
Max. impulse current (8/20 μ s)	$I_{max.}$	[kA]	8
Service life test current (10/700 μ s)	i_i	[A]	500 x 100 A / 100 x 500 A
Operating temperature range	T	[°C]	-25°C ... +85°C
Max. connection wire cross-sectional area (L1, N and PE)		[mm ²]	2.5 rigid or 1.5 stranded with sleeve
Max. connection wire cross-sectional area for remote monitoring		[mm ²]	2.5 rigid or 1.5 stranded with sleeve
Housing / colour	Polycarbonate (halogen-free) / yellow		
Casting compound	Polyurethan		
Mounting	35 mm DIN rail acc. to EN 50 022		

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with potential-free contact

EnerPro220Tr/5kA/Pk

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Diagram

