

- ⚡ **High performance surge protector for 230V ~ applications**
- ⚡ **Snap-on housing for DIN rail or wall mounting**
- ⚡ **Visual function indicator (green and red LED)**
- ⚡ **Remote signalling contact (Pk)**

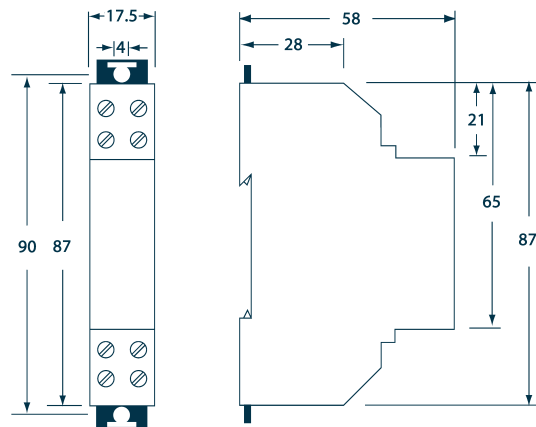
## Categories C+D (Equipment) Surge Protective Devices

### Product description

EnerPro220Tr/20kA is used for categories C and D 230V ~ inputs. Its use is especially recommended where no primary and/or secondary protection is installed. It is built into an easy to handle snap-on housing for 35mm DIN rail mounting. A green LED signal shows that the operating voltage has been achieved and that the protective circuit is in full working order. The protection elements are automatically extinguishing valve conductors which lead to the PE respectively high performance varistors placed between phase and neutral conductor. Once they have acted as surge arresters with subsequent discharge of the partial light-

ning current pulses, the follow-on currents are switched off automatically. The gas-filled performance arrester leading to the PE blocks any leakage current pulses that may come from the varistors.

EnerPro220Tr/20kA has a thermal disconnection device which will respond if the varistors emit excessive leakage current pulses due to overloading. The thermal disconnecter is situated in the cross section thus cutting off only the surge protective device from the mains (no operating disruption); when this happens, the red LED signal will light up and the optional potential-free contact will open.



### Technical Data

**Application** ● Categories C+D surge protective device for 230 V equipment

Type	EnerPro220Tr/20kA		
Protection category	C + 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/ $\mu$ s (L1, N-PE)	$U_{as}$	[kV]	$\leq 1.4$
Protection level at $i_{sN}$ (L1, N-PE)	$U_{rest}$	[kV]	$\leq 1.4$
Response time	$t_A$	[ns]	$\leq 25$
Nom. impulse discharge current (8/20 $\mu$ s) L1, N-PE	$I_{sN}$	[kA]	20
Max. impulse current (8/20 $\mu$ s)	$I_{max.}$	[kA]	20
Service life test current (10/700 $\mu$ 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 <sup>2</sup> ]	2.5 rigid or 1.5 stranded with sleeve
Max. connection wire cross-sectional area for remote monitoring		[mm <sup>2</sup> ]	2.5 rigid or 1.5 stranded with sleeve
Housing / Colour	Polycarbonate (halogen-free) / yellow		
Casting compound	Polyurethane		
Mounting	35 mm DIN rail acc. to EN 50 022		

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with potential-free contact **EnerPro220Tr/20kA/Pk**

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### Diagram

