

Lightning- and Overvoltage Protection EnerPro282Tr-M(/Pk)

Categories II (C) Surge Protective Device



- SPD based on isolating spark gap technology (leakage current-free valve surge protector)
- Two pole snap-on housing for DIN rail mounting
- No blow-out vents – no need for safety distance
- Visual function indicator (LED)
- Remote signalling contact (/Pk) with optional plug-in connection terminal

Product description:

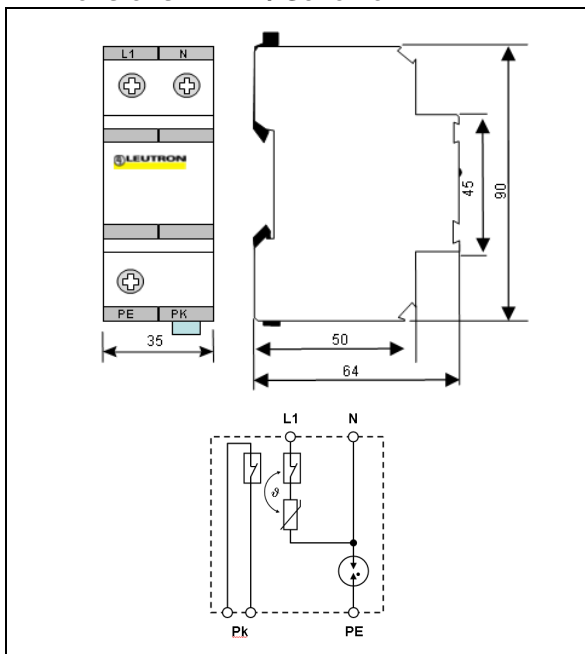
The SPD (surge protective device) EnerPro282Tr-M and EnerPro282Tr-M/Pk are used as lightning, overvoltage and interference voltage protectors on the supply end of electric devices and equipment. Depending on the type, it is possible to protect one phase and the neutral conduit. The devices are wired internally so that only once PE or /Pk has to be connected. The protection device is placed in an easy to handle snap-on housing designed for 35mm DIN rail mounting (according to EN 50 022) with multi-purpose terminals for wire and busbar connection. The EnerPro282Tr-M and EnerPro282Tr-M/PK have thermal disconnectors which will respond should the varistors emit leak current surges due overloading. The disconnectors are installed in such a way, that when triggered, only the surge protection is cut off the mains (no operating disruption!) In this case, the green, the green operating mode signal is switched off and the optional remote alarm contact (/Pk) opens and the device must be replaced.

Technical Data:

Type	EnerPro282Tr-M / EnerPro282Tr-M/Pk
Application	Two-pole SPD (surge protective device) for low-voltage power distribution; protection categories II (C)

Type		EnerPro282Tr-M / EnerPro282Tr-
Article number		38 20 44 / 38 20 45
Protection category / Tested acc. to E DIN VDE 0675-6-11/89-A1, and 6-A1-3/96 and based on IEC 61643-1		Class II (C)
Rated voltage 50/60 Hz	U_n [V~]	240 / 415 +10%
Max. operating voltage 50/60 Hz	U_{max} [V~]	275 / 480
Max. permissible fuse	I [A]	≤ 100 gl
Protection level at 1kV/μs (L,N-PE)	U_{as} [kV]	<1,0
Protection level at i_{sn} (L,N-PE)	U_{rest} [V]	< 800
Lightning impulse current (10x 8/80μs) N-PE	I_{imp} [kA]	12
	Q [As]	6
	W/R [kJ/Ω]	36
Respond time (10kV/μs)	t_A [ns]	<5
Nominal discharge current L-PE (8/20μs)	i_{sn} [kA]	10x 20
Max. discharge current (8/20μs)	i_n [kA]	1x 40
Service life test current (10/700μs) (acc to DIN VDE 0845, part 2, draft 11.90)	i_i [A]	500x 100
		10x 500
		1x 1000
Operating temperature range	[°C]	-25 ... +85
Max. permissible line resp. backup fuse by V-wiring	[A]	130 A gl
Max. wire cross-sectional area (L,N and PE)	[mm ²]	2,5 ... 50 rigid or / 2,5 ... 35 stranded
Max. wire cross-sectional area remote contact	[mm ²]	1,5 rigid
Recommended connection torque	[Nm]	4,5
Housing cover / Colour		Polycarbonate (halogen free) / yellow
Casting compound		Polyurethane
Acc. to IEC 529 (1989) protection category		IP 20
Mounting		35 mm rail acc. to EN 50 022

Dimensions in mm / Scheme:



Application:

