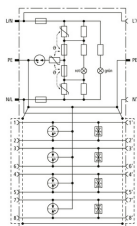


DPRO 230 LAN100 (909 321)

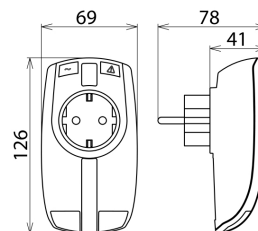
- Surge protective device for Ethernet components (1000 BASE-T) with an elegant design
- For installation in conformity with the lightning protection zone concept at the boundaries from 2 – 3 and higher



Figure without obligation



Basic circuit diagram DPRO 230 LAN100



Dimension drawing DPRO 230 LAN100

Combined surge protection for the power side and the data input for the protection of LAN components. Protective circuit for all wire pairs for Ethernet pin assignment.

Meets the requirements for channel class D in accordance with EN 50173 and is thus suitable for 1000 Base-T (Gigabit Ethernet).

With visual operating state and fault indication and an integrated child lock.

Protection of the data side

Type	DPRO 230 LAN100
Part No.	909 321
SPD class	TYPE 2 P1
Max. continuous operating voltage (d.c.) (U_c)	3.3 V
Lightning impulse current (10/350 μ s) per line D1 (I_{imp})	0.5 kA
C2 Nominal discharge current (8/20 μ s) line-line (I_n)	150 A
C2 Nominal discharge current (8/20 μ s) line-PE (I_n)	2.5 kA
C2 Total nominal discharge current (8/20 μ s) (I_n)	10 kA
Voltage protection level line-line for I_n C2 (U_p)	≤ 30 V
Voltage protection level line-PE for I_n C2 (U_p)	≤ 550 V
Voltage protection level line-line at 1 kV/ μ s C3 (U_p)	30 V
Voltage protection level line-PE at 1 kV/ μ s C3 (U_p)	≤ 550 V
Cut-off frequency (f_c)	180 MHz
Operating temperature range (T_u)	-25 °C ... +40 °C
Degree of protection	IP 20
Connection (input / output)	shielded RJ45 socket / shielded RJ45 socket
Pinning	1/2, 3/6, 4/5, 7/8
Earthing via	protective conductor connection
Enclosure material	thermoplastic, UL 94 V-2
Colour	pure white
Test standards	IEC 61643-21 / EN 61643-21

Protection of the power side

Type	DPRO 230 LAN100
Part No.	909 321
SPD according to EN 61643-11 / IEC 61643-11	type 3 / class III
Nominal voltage (a.c.) (U_N)	230 V (50 / 60 Hz)
Max. continuous operating voltage (a.c.) (U_C)	255 V (50 / 60 Hz)
Nominal load current (a.c.) (I_L)	16 A
Nominal discharge current (8/20 μ s) (I_n)	3 kA
Total discharge current (8/20 μ s) [L+N-PE] (I_{total})	5 kA
Combination wave (U_{OC})	6 kV
Combination wave [L+N-PE] ($U_{OC total}$)	10 kV
Voltage protection level [L-N] (U_P)	≤ 1.25 kV
Voltage protection level [L/N-PE] (U_P)	≤ 1.5 kV
Response time [L-N] (t_A)	≤ 25 ns
Response time [L/N-PE] (t_A)	≤ 100 ns
Max. mains-side overcurrent protection	B 16 A
Short-circuit withstand capability for mains-side overcurrent protection (I_{SCCR})	1 kA _{rms}
Temporary overvoltage (TOV) [L-N] (U_T) – Characteristic	335 V / 5 sec. – withstand
Temporary overvoltage (TOV) [L-N] (U_T) – Characteristic	440 V / 120 min. – safe failure
Temporary overvoltage (TOV) [L/N-PE] (U_T) – Characteristic	335 V / 120 min. – withstand
Temporary overvoltage (TOV) [L/N-PE] (U_T) – Characteristic	440 V / 5 sec. – withstand
Temporary overvoltage (TOV) [L+N-PE] (U_T) – Characteristic	1200 V + U_{REF} / 200 ms – safe failure
Fault indication	red indicator light
Operating state indication	green indicator light
Number of ports	1
For mounting on	earthed socket outlets DIN 49440 / DIN 49441
Test standards	EN 61643-11
Weight	216 g
Customs tariff number (Comb. Nomenclature EU)	85363010
GTIN	4013364126152
PU	1 pc(s)

We reserve the right to introduce changes in performance, configuration and technology, dimensions, weights and materials in the course of technical progress. The figures are shown without obligation.