



DPRO 230 LAN100 (909 321)

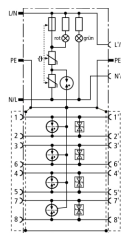
Protection of Ethernet components (1000 BASE-T) with an elegant design

Shielded Cat 5e patch cable (1.5 m) included

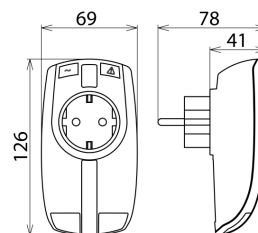
For installation in conformity with the lightning protection zones concept at the boundaries from 2 – 3 and higher



Figure without obligation



Basic circuit diagram DPRO 230 LAN100



Dimension drawing DPRO 230 LAN100

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

Meets the requirements for Channel Class D in accordance with EN 50173.

Protection of the data side

Type	DPRO 230 LAN100
Part No.	909 321
Max. continuous operating d.c. voltage (U_C)	58 V
C2 Nominal discharge current (8/20 μ s) line-line (I_n)	30 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)	≤ 100 V
Voltage protection level line-PE for I_n C2 (U_p)	≤ 500 V
Voltage protection level line-line at 1 kV/ μ s C3 (U_p)	90 V
Voltage protection level line-PE at 1 kV/ μ s C3 (U_p)	≤ 500 V
Cut-off frequency (f_G)	120 MHz
Operating temperature range	-20°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	type 3
SPD according to IEC 61643-1	class III
Nominal a.c. voltage (U_N)	230 V
Max. continuous operating a.c. voltage (U_C)	255 V
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
Combined impulse (U_{oc})	6 kV
Combined impulse [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_l)	≤ 25 ns
Response time [L/N-PE] (t_A)	≤ 100 ns
Max. mains-side overcurrent protection (I)	16 A gL/gG or B 16 A
Short-circuit withstand capability for mains-side overcurrent protection	6 kA _{rms}
Temporary overvoltage (TOV) [L-N] (U_T)	335 V / 5 sec.
Temporary overvoltage (TOV) [L/N-PE] (U_T)	400 V / 5 sec.
Temporary overvoltage (TOV) [L+N-PE] (U_T)	1200 V + U_{CS} / 200 ms
TOV characteristic [L-N]	withstand
TOV characteristic [L/N-PE]	withstand
TOV characteristic [L+N-PE]	safe
Fault indication	red indicator light
Operating state indication	green indicator light
Number of ports	1
For mounting on	plug-in systems with earth contact DIN 49440/DIN 49441
Test standards	EN 61643-11
Weight	260 g
Customs tariff number	85363010
GTIN	4013364126152
PU	1 pc(s)