

N27D RAIL-MOUNTED NETWORK METER

FEATURES:

63 A

INPUTS:

V

A

W

Hz

AC

GALVANIC ISOLATION:



- Direct measurement up to 63A.
- Measurement of: RMS current (a.c.) and voltage (a.c.), active power and frequency.
- Switched measured value.
- 4-digit display in yellow colour.
- Backlighted indicator of displayed value.
- Modern design allows for installation of the meter in modular switchgear in accordance with EN 62208 (meter has a width of 3 modules) on 35 mm rail.

INPUTS

Kind of input	Measuring range	Parameters	Basic error
Voltage input U	0... <u>0.01</u> ... <u>1.2</u> Un	input resistance: > 3 MΩ	± (0.5% of the range) in frequency range 40...500 Hz
Current input I	0... <u>0.01</u> ... <u>1.2</u> In		± (0.5% of the range) in frequency range 45...65 Hz
Voltage frequency	0... <u>2.00</u> ... <u>500.0</u> Hz		± (0.02% of the range)
Current frequency	0... <u>45.00</u> ... <u>500.00</u> Hz		
Active power	-45.4 ... <u>31.5</u> ... <u>31.50</u> ... 45,36 kW at frequency 45... 65 Hz		± (1% of the range) at frequency 45...65 Hz

EXTERNAL FEATURES

Readout field	4-digit LED displays - digit height: 8,5 mm - yellow, indication range: -1999...9999	
Weight	< 0.25 kg	
Overall dimensions	53 x 110 x 60 mm	Bezel: 45 × 53 mm
Protection grade	IP00	acc. to EN 60529
Fixing	on a 35 mm rail	acc. to EN 60715

RATED OPERATIONS CONDITIONS

Supply voltage	230 V ± 10% a.c. (45...65 Hz)	Power consumption < 6 VA
Input voltage Un	500 V a.c. 0... <u>2</u> ... <u>40.0</u> ... <u>500.0</u> Hz	
Input current In	63 A a.c. 0... <u>45.0</u> ... <u>500.0</u> Hz	
Temperature	ambient: -10... <u>23</u> ...55°C	Storage: -25...85°C
Relative humidity	< 95%	Condensation inadmissible
Operating position	any	

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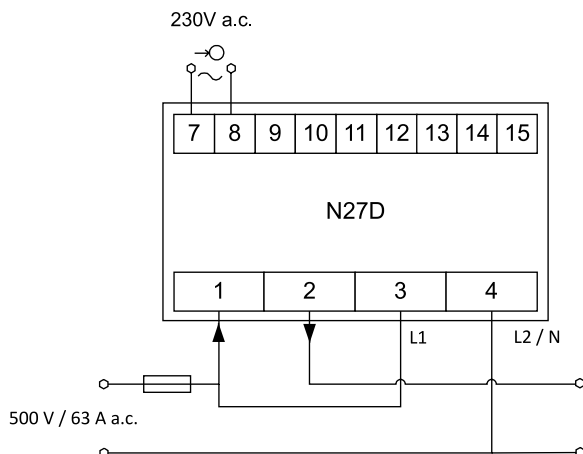
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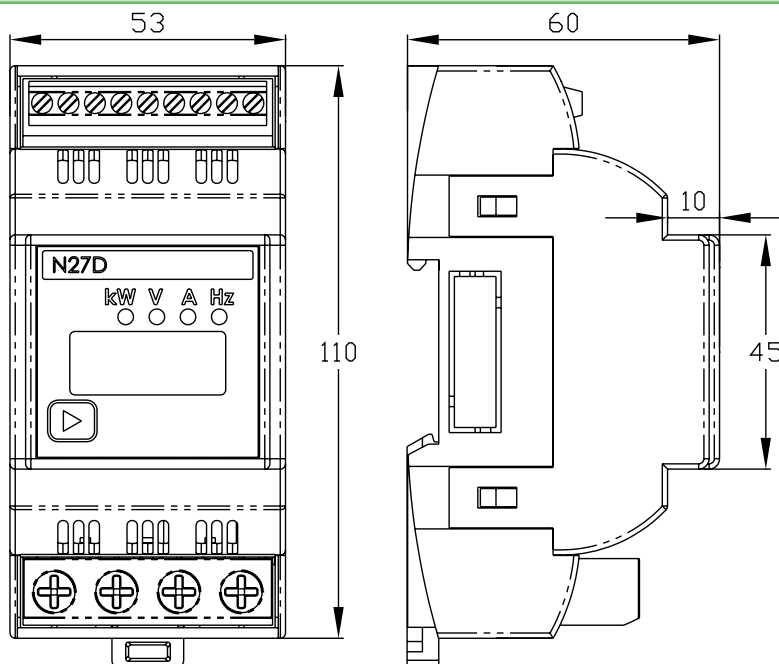
SAFETY AND COMPATIBILITY REQUIREMENTS

Electromagnetic compatibility	noise immunity	acc. to EN 61000-6-2
	noise emissions	acc. to EN 61000-6-4
Installation category	III up to 300 V (II for 300 ... 600 V)	
Pollution grade	2	
Phase-to-earth operating voltage	- for the supply circuit: 300 V, - for the measuring input 600 V – category II (300 V – category III)	acc. to EN 61010-1

CONNECTION DIAGRAM



EXTERNAL DIMENSIONS



ORDERING

	N27D -	XX	X	X
Version:				
standard		00		
custom-made*		XX		
Language:				
Polish			P	
English			E	
other*			X	
Acceptance tests:				
without extra quality requirements			0	
with an extra quality inspection certificate			1	
acc. to customer's request*			X	

ORDERING EXAMPLES:

Code: **N27D - 00 E 0** means:

- N27D** - rail mounted digital meter
- 00** - standard version
- E** - English language,
- 0** - without extra quality inspection requirements.

* - after agreeing with the manufacturer

For more information
about LUMEL's
products please visit
our website:
www.lumel.com.pl

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