

Energy meters

ENERGY-400 D90

DIMENSIONS (mm)

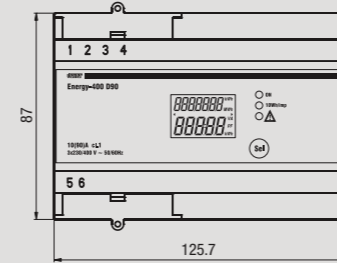
CONNECTION DIAGRAM

Static meters with LCD display to view the consumption of active energy in 400 V three-phase systems.

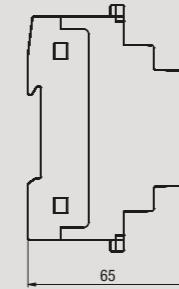


- 1 Non zeroable total energy meter
- 2 Zeroable partial energy meter
- 3 Green LED: power on
- 4 Red LED: active energy consumption
- 5 Yellow LED: connection incorrect
- 6 Programming button

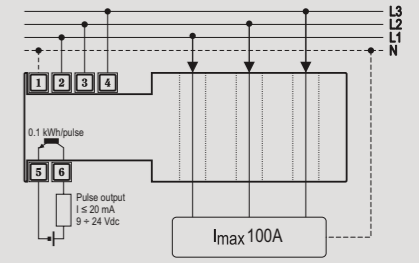
Front view



Side view



Diagram



MEASUREMENT AND CONTROL

DIRECT CONNECTION THREE-PHASE METER

- Power supply: 3x230 phase neutral (400 phase-phase) V AC (-15% ÷ +10%)
- Base current: 10 A
- Max input current: 100 A
- Precision: class 1 (up to 100 A)
- Connection via direct passage of the current cables (max. sect. 25 mm²) in vertical section on the container body
- View via 7 digits (non zeroable total energy) + 5 digits (partial zeroable energy) LCD display
- Active energy consumption indication 1 FLASH = 10 Wh
- Container 7 DIN modules
- Pulse output for PC view of the energy consumed, through specific software and relevant concentrator module
- Electrically insulated amperometric input
- Optoisolated pulse output

TECHNICAL INFORMATION

GENERAL CHARACTERISTICS

Power supply	V AC	3x230 (400)
Frequency	Hz	50 / 60
LCD numerator		7 + 5 digits
Reading resolution	kWh	0.1
Precision	Active energy	Class 1 (EN 62053-21)
Absorption	Voltmetric circuit	VA <2.5
	Amperom. circuit	VA <2.5
Starting current	A	10
Degree of protection		IP20 / 51 front

Maximum current	A	100
Minimum starting current	mA	<40
Optoisolated pulse output	Pulse rate	kWh 0.1
	Pulse duration	ms 100
	Pulse voltage	V DC 9 ÷ 24
	Output current	mA <20
Operating temperature	°C	-10 ÷ +45
Storage temperature	°C	-20 ÷ +60
Container		7 DIN modules
Humidity		10 ÷ 90% non condensing

Code	Model	Description	Dimensions
VN984100	Energy-400 D90	100 A direct connection three-phase energy meter	7 DIN modules

REFERENCE STANDARDS

Compliance with Community Directives: 2014/35/EU (LVD) and 2014/30/EU (EMCD) is declared with reference to the following Standards: EN 61010-1 • EN 61000-6-2 / EN 61000-6-4