

E30 / E31 / E32 / E33



3-phase - Direct 100 A

➤ Function

The **COUNTIS E3x** is an electrical energy meter designed for three-phase networks. It is used for direct connections up to 100 A.

➤ Applications

The **COUNTIS E30** is a totalising meter allowing direct reading of the power consumed, using a pulse output. A partial meter with reset allows the energy to be metered over a specific period.

The **COUNTIS E31** also offers the option of taking two different invoicing tariffs into account. In this case, two partial meters are available.

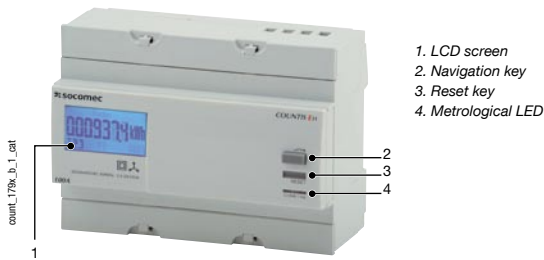
The **COUNTIS E32** has MID certification. Owing to this fact, this product cannot be reset.

The **COUNTIS E33** uses JBUS/MODBUS RTU communication via RS485.

➤ Conformity to standards

- IEC 62053-21 class 1
- IEC 62053-23 class 2
- IEC 61557-12

Front panel

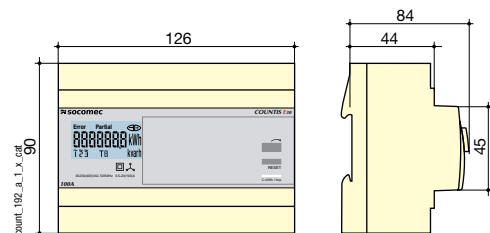


Electrical Characteristics

Current measurement	
Type	100 A direct
Input consumption	0.5 VA max. per phase
Overload	3000 A / 10 ms
Sustained overload	100 A
Minimum measured current	80 mA
Voltage measurement	
Range of measurement	230 ... 400 V +/- 20%
Consumption on inrush (VA)	2
Sustained overload	280 V
Energy accuracy	
Active (according to IEC 62053-21)	Class 1
Input supply	
Self-supply	Yes
Frequency	50 / 60 Hz

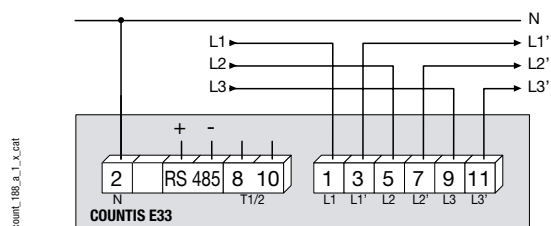
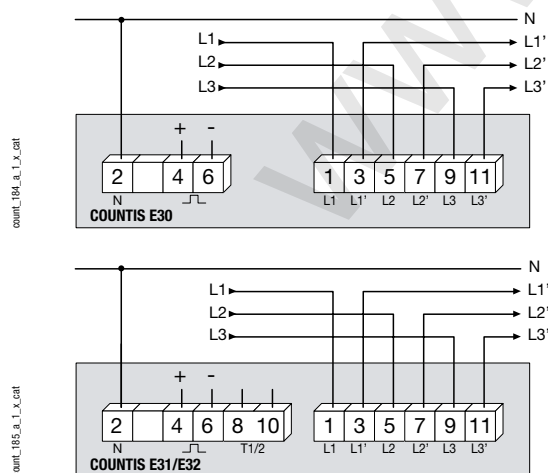
Output (pulsed)	
Number	1
Phototransistor type	IEC 62053-31 class A
Fixed weight of impulses	100 Wh
Impulse duration	100 ms
Operating conditions	
Operating temperature	-10 to 55°C °C
Storage temperature	-20 to 70°C °C
Relative humidity	85 %
Communication	
Link	RS485
Type	2 ... 3 half duplex wires
Protocol	JBUS/MODBUS® in RTU mode
JBUS/MODBUS® speed	3800 ... 38400 bauds

Case



Type	Modular
Number of modules	7
Dimensions W x H x D	126 x 90 x 84 mm
Case protection rating	IP20
Front protection rating	IP50
Display type	Backlit LCD display
Rigid cable connection section	2.5 to 35 mm²
Flexible cable connection section	2.5 to 35 mm²
Weight	490g

Connection



References

Type	COUNTIS E30 Reference	COUNTIS E31 Reference	COUNTIS E32 Reference	COUNTIS E33 Reference
3-phase - Direct 100 A	4850 3005			
100 A direct - 3-phase - Dual tariff		4850 3006		
100 A direct - 3-phase - Dual tariff - MID			4850 3007	
100 A direct with JBUS/MODBUS communication via RS485				4850 3012