

**Description**

Energymeters are aimed to measure the active energy consumed by an installation. They permit to have under control the real cost of an installation and to divide the consumption between the different appliances.

**Characteristics**






- class B
- accuracy 1%
- energy readout: 7 digits
- backlighted display
- indication of instantaneous power consumption
- total / partial counter (excepted MID references)
- pulsed output
- unlimited saving of measures
- LED flashing according to consumption

- option: tariff 1 / tariff 2.
- three phases energymeters are adapted to all kind of networks
- display indication in case of bad wiring.

**Connection capacity :**

- flexible 6 mm<sup>2</sup>
- rigid 4 mm<sup>2</sup>

Complies to EN 50 470-3

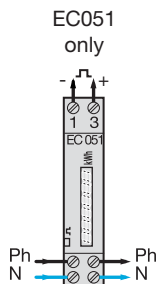
Designation	Characteristics	Width	Pack qty.	Cat. ref.
	<b>Single phase - direct 32A</b>	voltage 230V AC 50 / 60Hz		
	single tariff without pulsed output	1 ■	1	<b>EC050</b>
	single tariff with pulsed output	1 ■	1	<b>EC051</b>
	<b>Single phase - direct 63A</b>	voltage 230V AC 50 / 60Hz starting current = 40mA base current = 10A max current = 63A		
	with pulsed output and total / partial	3 ■	1	<b>EC150</b>
	with pulsed output, total / partial counter and 2 tariffs	3 ■	1	<b>EC152</b>
	<b>Three phase - direct 63A</b>	voltage 230/400V AC 50 / 60Hz starting current = 40mA base current = 10A max current = 63A		
	with pulsed output and total / partial	4 ■	1	<b>EC350</b>
	with pulsed output, total / partial counter and 2 tariffs	4 ■	1	<b>EC352</b>
	<b>Three phase - direct 100A</b>	voltage 230/400V AC 50 / 60Hz starting current = 80mA base current = 20A max current = 100A		
	with pulsed output and total / partial	7 ■	1	<b>EC360</b>
	with pulsed output, total / partial counter and 2 tariffs	7 ■	1	<b>EC362</b>
	<b>Three phase - connection via current transformers</b>	to be connected with CT with on the secondary voltage 230/400V AC 50 / 60Hz starting current = 10mA max current on CT secondary = 6A		
	with pulsed output and total / partial	4 ■	1	<b>EC370</b>
	with pulsed output, total / partial counter and 2 tariffs	4 ■	1	<b>EC372</b>
<b>Hour counters</b>	250V 50Hz	2 ■	1	<b>EC100</b>

## Technical characteristics

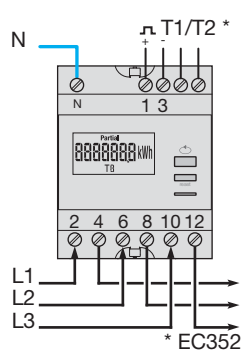
	EC050	EC051	EC150	EC152	EC350	EC352	EC360	EC362	EC370	EC372
<b>Electrical characteristics</b>										
Voltage	230V AC +/- 15%				230V AC +/- 15%, 400V AC +/- 15%					
Frequency	50 / 60Hz									
Consumption	7VA, 1W		< 10VA and 1W			< 10VA and 3W				
<b>Metrological data</b>										
Connection	direct								via current transformer	
Display	5 + 1 digits		6 + 1 digits			7 + 1 digits				
Accuracy	1%, class 1 IEC1036		1%, class B EN 50 470-3							
I max	32A direct		63A direct				100A direct		6A on sec. of CT	
I starting	20mA		40mA				80mA		10mA on sec. of CT	
Base current	10A		10A				20A		5A	
<b>Metrological LED</b>										
LED					1000 blinking / hr			500 blinking / hr		1000 blinking / hr
<b>Pulsed output</b>										
Pulsed output	no		1 pulse = 100Wh / 100ms / 20 - 30V DC max (except on KNX meters)							
<b>Tariff</b>										
Tariff	1	1	1	2	1	2	1	2	1	2
<b>Mechanical characteristics</b>										
Width	1 ■		3 ■			4 ■		7 ■		4 ■
Protection degree	IP20		IP20, IP51 (front part)							
Storage temperature	-25 to +70°C		-20 to +70°C							
Operating temperature	-10 to +45°C		-10 to +55°C							
Connection capacity	rigid: 1 to 6 mm <sup>2</sup> flexible: 1 to 4 mm <sup>2</sup>		rigid: 1,5 to 16 mm <sup>2</sup> flexible: 1 to 16 mm <sup>2</sup>				rigid: 2,5 to 35 mm <sup>2</sup> flexible: 2 to 35 mm <sup>2</sup>		rigid: 1,5 to 10 mm <sup>2</sup> flexible: 1 to 6 mm <sup>2</sup>	

### Connection diagram

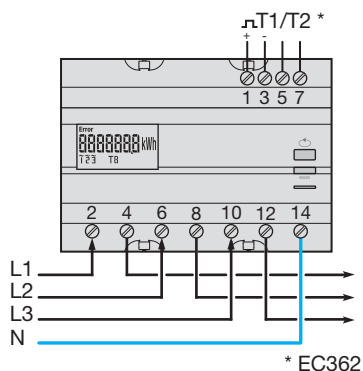
EC050, EC051



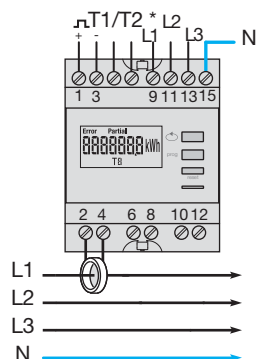
EC350, EC352



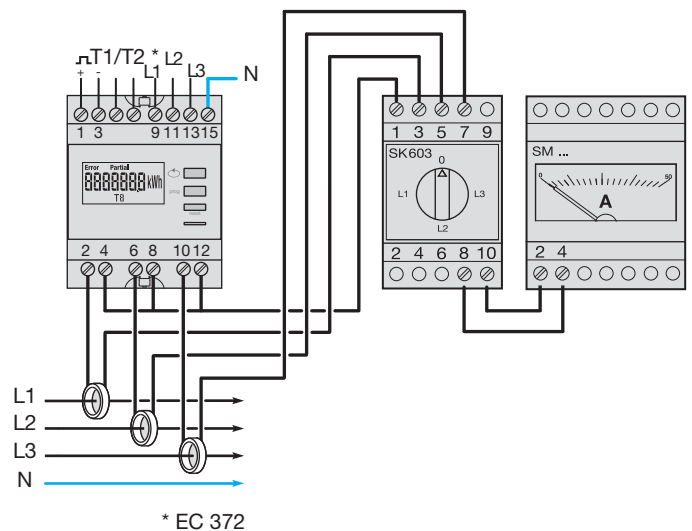
EC360, EC362



EC370, EC372



### Metering for 3 phase network associated with an ammeter and its phase switch 230 / 400V AC



Power interface  
and programming

**Description**

Current transformers are used to feed analogue and digital ammeters. As well as kWh meters.

Their current on secondary circuit (0-5A) is proportional to

the current on primary circuit class : 1

can be mounted on copper bar or on cable

can be mounted on DIN rail with adaptors

**Connection capacity :**

- flexible 6 mm<sup>2</sup>
- rigid 4 mm<sup>2</sup>



SR 051



SR 300

Designation	Characteristics	Width in 17.5mm	Pack qty.	Cat. ref.
<b>Current transformers (CT)</b>				
	ratio : 50/5	2,5	1	<b>SR051</b>
	100/5	2,5	1	<b>SR101</b>
	150/5	3,5	1	<b>SR150</b>
	200/5	3,5	1	<b>SR200</b>
	250/5	3,5	1	<b>SR250</b>
	300/5	4,5	1	<b>SR300</b>
	400/5	4,5	1	<b>SR400</b>
	600/5	4,5	1	<b>SR600</b>
	800/5	5,5	1	<b>SR800</b>
	1000/5	6	1	<b>SR850</b>
	1500/5	6	1	<b>SR900</b>
	2000/5	6	1	<b>SR910</b>

## Electrical characteristics

- primary current: from 50 to 2000 A
- secondary current: 0 - 5 A
- frequency : 50/60 Hz
- max. permanent overload: 1,2 Un

## Connection

- flexible cable: 1 to 4 mm<sup>2</sup>
- rigid cable: 1 to 6 mm<sup>2</sup>

Working temperature : from -25 to +50 °C

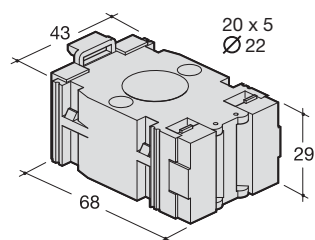
Storage temperature : from -40 to +80 °C

## Current transformers

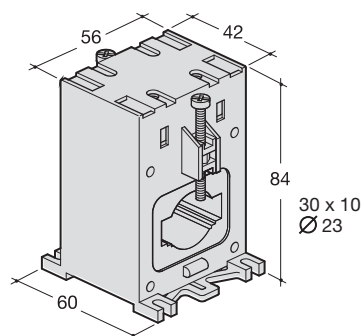
Catalogue reference	SR051/SR101/SR151	SR200/SR250	SR300/SR400/SR600	SR800/SR850	SR900/SR910											
for cable	Ø 21	Ø 23	Ø 35													
Busbars	20 x 5	30 x 10	40 x 10	2 x 10 x 60	2 x 80 x 10											
Ref.	A	Potential (VA)						Accuracy %								
		Accuracy %			Accuracy %			Accuracy %			Accuracy %			Accuracy %		
		0,5	1	3	0,5	1	3	0,5	1	3	0,5	1	3	0,5	1	3
SR 051	50	-	1,25	1,5	-	-	-	-	-	-	-	-	-	-	-	-
SR 101	100	2	2,5	3,5	-	-	-	-	-	-	-	-	-	-	-	-
SR 151	150	3	4	5	-	-	-	-	-	-	-	-	-	-	-	-
SR 200	200	-	-	-	4	7	8,5	-	-	-	-	-	-	-	-	-
SR 250	250	-	-	-	6	9	11	-	-	-	-	-	-	-	-	-
SR 300	300	-	-	-	-	-	-	4	8	12	-	-	-	-	-	-
SR 400	400	-	-	-	-	-	-	8	12	15	-	-	-	-	-	-
SR 600	600	-	-	-	-	-	-	12	15	15	-	-	-	-	-	-
SR 800	800	-	-	-	-	-	-	-	-	-	12	15	20	-	-	-
SR 850	1000	-	-	-	-	-	-	-	-	-	15	20	25	-	-	-
SR 900	1500	-	-	-	-	-	-	-	-	-	-	-	-	15	20	25
SR 910	2000	-	-	-	-	-	-	-	-	-	-	-	-	10	12	15

## Range of all CT's

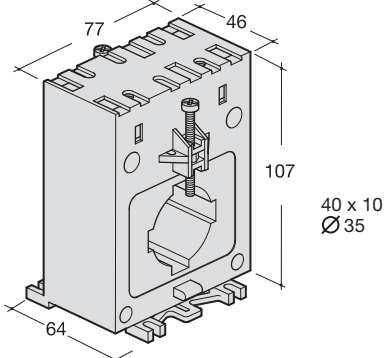
### SR 051, SR 101, SR 151



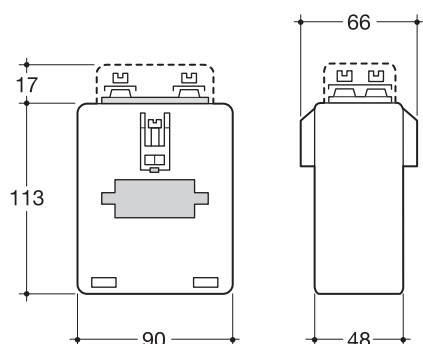
### SR 200, SR 250 for cable Ø 23 max. for busbar 30 x 10 max.



### SR 300, SR 400, SR 600 for cable Ø 35 for busbar 40 x 10 max.



### SR 800 max. busbar 63 x 10 or 2 x 50 x 10



### SR 850, SR 900, SR 910 max busbar 80 x 10 or 2 x 63 x 10

