

Rail Mount Meters (Class 1)



EC320CM



EC330CM



EC320CD



EC330CD

Ecolec Rail Mount Meters									E2
Type	Phase	Voltage	Frequency	Max Rating*	Escutcheon	No. Of Modules	Std. Pack	Price ea.	Order No.
EC320CM	1 + N	230 V	50	80 A	57 mm	2	6	R 805.00	EC320CM
EC320CD	1 + N	230 V	50	80 A	45 mm	2	6	R 805.00	EC320CD
EC330CM	3 + N	415 V	50	80 A	57 mm	4	3	R 2 273.00	EC330CM
EC330CD	3 + N	415 V	50	80 A	45 mm	4	3	R 2 273.00	EC330CD

* Note: Anything above 80 A - CT needed

Rail Mount Meter

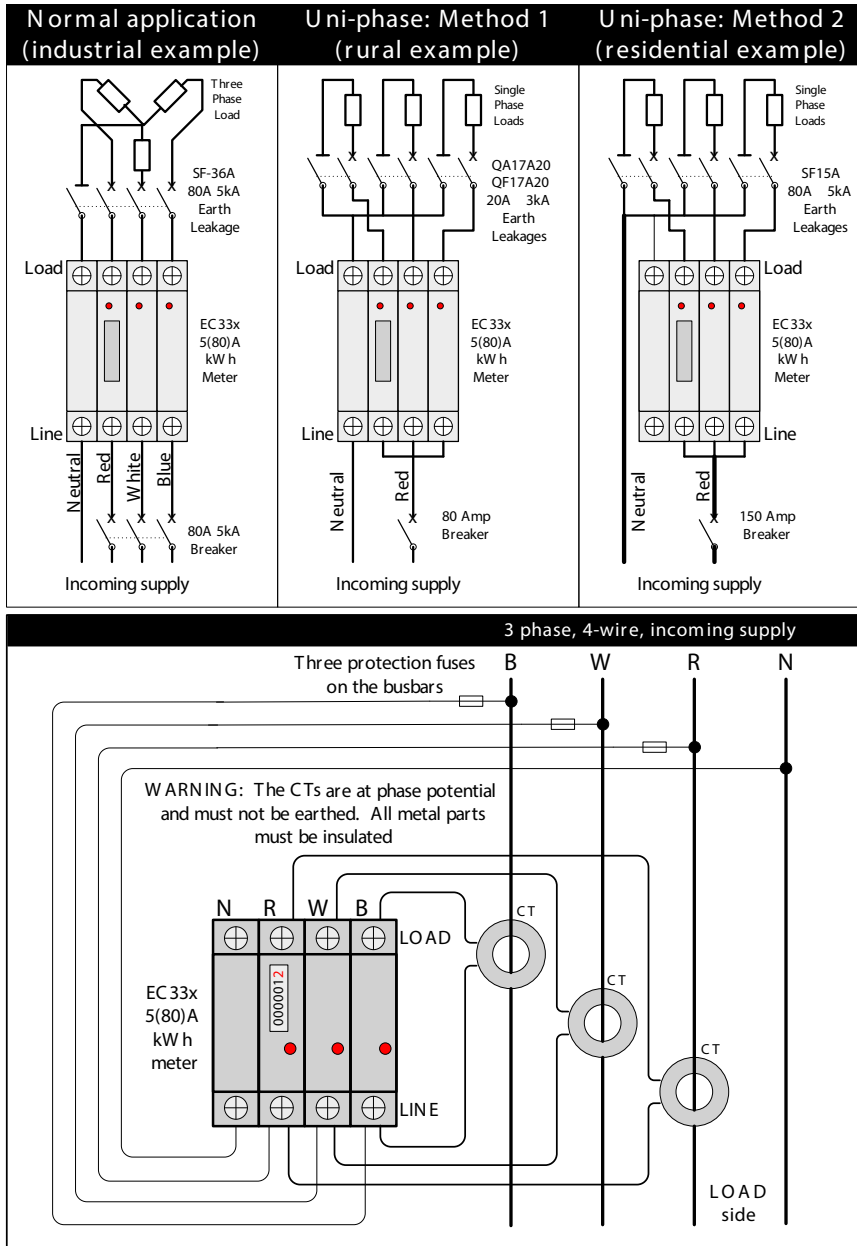
Rail mount meters are based on a meter module width of 13 mm with the single phase being 2 modules and the three phase 4 modules. The meter uses an integral current transformer as a measuring element and will count positive no matter from which direction the current is drawn. The display is a conventional cyclometer. The range included mini and DIN rail mounting, 230 V, 50 Hz.

Features

- SANS 1799 class 1 electricity meters
- Class 1: accuracy < 1%
- Single and three phase alternatives
- Fits all CBI mini and DIN rail distribution boards
- 7 Digit tamper-proof counter
- Anti-tamper terminal protection plugs
- Also available in 120 V / 60 Hz
- LED status and kWh consumption indicator
- Remote monitoring: LIN bus
- IP-45 rating
- 57 mm (dual mount) and 45 mm (DIN rail) escutcheon

LED Indications	
LED Indication	Reason / Description
Pulses RED	Normal consumption pulses (1000 pulses per kilo watt hour)
Pulses GREEN	Low load condition (consumption is less than 30 watts)
Solid GREEN	No load (meter is powered up)
Pulses ORANGE	Abnormal load (supply voltage is between 265 - 460 V or 60 - 90 Vac)
Solid ORANGE	Unsafe load condition (the current being drawn is greater than 125 A or the supply voltage is greater than 460 Vac)
Solid RED	Error condition (the meter's internal built in test has failed) / replace unit
No LED	No LED indication (insufficient supply voltage)

Wiring diagram



EC 300 series kWh consumption when using external CTs

There is a requirement to measure loads in excess of the meter's maximum current rating of 80 A. This can be done by using external CTs.

The actual kWh consumption per phase can be calculated as follows:

CT Ratio x Δ Counter Value (multiply the CT ratio being used by the difference between the current and the previous meter reading)

E.g.: For a 200/5 CT ratio the factor is 40.

Therefore the consumption per phase = 40 x kWh consumed.

For CT Selection, please refer to the NRS057 specification parts 1, 2 and 4.

NOTE: Do not earth CTs fitted above!

Product Approvals

- SANS IEC 61036 test report MTR/BB0630-SR
- 5(80)A
- SANS 1799

Rotating Disc Meters



1 Phase 2 Wire (20 - 80 A)



3 Phase 4 Wire (5 A)



3 Phase 4 Wire (40 - 100 A)



3 Phase 4 Wire (80 - 160 A)

Watt-Hour Meters			P
Description	Std. Pack	Price ea.	Order No.
1 Phase 2 wire 20 A to 80 A with encapsulated coils	1	R 739.00	BF36-20 /80
1 Phase 2 wire 20 A to 80 A with encapsulated coils (calibrated ¹)	1	R 813.00	BF36-20 /80-C
3 Phase 4 wire 40 A to 100 A (calibrated ¹)	1	R 2 621.00	MH36G-40-C
3 Phase 4 wire 80 A to 160 A (calibrated ¹)	1	R 2 760.00	MH36G-80CER
3 Phase 4 wire 5 A (calibrated ¹)	1	R 2 377.00	MH36-5A-C

Notes:

Certification only available on request
Class 1 meter