

ENERGY METERS

C11 - Easy and compact

Energy meters



The Energy meters C11 is a truly compact meter for single phase metering. The C11 is mounted on a DIN rail and is suitable for installation in distribution boards and small consumer units. The C11 is suitable for many applications.

The C11 is a very compact meter for single phase applications.
Direct connected electricity meter up to 40 A. IEC approval. instrument values. Alarm function. Optional - Verified and approved according MID.

General features

The C11 is a very compact meter for single phase applications. The meter has an LCD with large digits on a vertical line and small digits on a horizontal line below. The meter has a wide temperature range which makes it possible to install the meter in many locations. Navigating the meter is easily done via the push-button below the display. The power consumption of the meter is very low, less than 0.8 VA (0.2 W).

Communication

Data from the C11 meters can be collected via pulse output. The pulse output is a solid state relay that generates pulses proportionally to the measured energy.

Instrumentation

The C11 meters support reading of instrument values. A number of electrical properties can be read:

• Power factor

Active power

• Current

Voltage

Outputs

The C11 meter has an output that can be used as pulse output or alarm output. The alarm quantity and levels is easily configured on the meter with the push button. The output can be used for controlling external apparatus like a contactor or an alarm indicator (connected via an external relay).

Approvals

The C11 meters are type approved according to IEC as well as type approved and optionally verified according to MID. MID is the Measure Instruments Directive 2014/32/EU from European Commission. The type approval is according to standards that covers all relevant technical aspects of the meter. These include climate conditions, electromagnetic compatibility (EMC), electrical requirements, mechanical requirements and accuracy.

Ordering detail

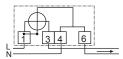
Energy meters single phase electricity meter, 1 DIN, 40 A Direct connected electricity meter up to 40 A. IEC approval. instrument values. Alarm function. Optional - Verified and approved according MID.

Description	Order details Type code	Order code	Weight 1 piece
			kg
Class B(Cl. 1) w	ith functionality	level Steel. Active e	nergy
1x230 V AC, 1000 imp/kWh	C11 110 - 101 *)	2CMA103571R1000	0.070
Class 1 with fu	nctionality level !	Steel. Active energy	
1x230 V AC 1000 imp/kWh	C11 110 - 301	2CMA103572R1000	0.070

 $^{^{\}ast)}$ MID approval according to Module B and F

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Wiring diagram



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Dimensions

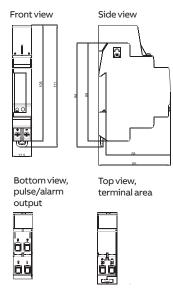


ABB S.p.A. Electrification Products Division

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www.abb.com/lowvoltage www.abb.com

Voltage/current inputs	
Nominal voltage	1 x 230 V AC
Voltage range	230 V (-20% - +15%)
Power dissipation voltage circuits	7.4 VA (0.3 W) at 230 V
Power dissipation current circuits	0.04 W (0.04 W) at I _b and I _{ref}
Base current I _b	5A
Reference current I _{ref}	5A
Fransitional current I _{tr}	0.5 A
	40 A
Maximum current I _{max} Minimum current I _{min}	
	0.25 A < 20 mA
Starting current I _{st}	
Ferminal wire area	0.5 - 10 mm ²
Recommended tightening torque	0.8 Nm
General data	F0 C011- 1 F0/
requency	50 or 60 Hz ± 5%
Accuracy Class	B (Cl.1)
Accuracy	1%
Display of energy	6 digits LCD
Mechanical	
Material	Polycarbonate in transparent front glass and terminal cover.
	Glass reinforced polycarbonate in terminal block
Environmental	0506 :7006
Operating temperature	-25°C-+70°C
Storage temperature	-25°C-+85°C
lumidity	75% yearly average, 95% on 30 days/year
Resistance to fire and heat	Terminal 960°C, cover 650°C (IEC 60695-2-1)
Resistance to water and dust	IP20 on terminal block without protective enclosure and
2	IP51 in protective enclosure, according to IEC 60529.
Outputs	2 100 1
Current	2-100 mA
/oltage	5-40 V DC
Pulse output frequency	1000 (imp/kWh)
Pulse length	100 ms
Terminal wire area	0.5 - 6 mm ²
Recommended tightening torque	0.8 Nm
Pulse indicator (LED)	1000: // //
Pulse frequency	1000 imp/kWh
Pulse length	40 ms
MC compatibility	
mpulse voltage test	6 kV 1.2/50 µs (IEC 60060-1)
Surge voltage test	4 kV 1.2/50 μs (IEC 61000-4-5)
ast transient burst test	4 kV (IEC 61000-4-4)
mmunity to electromagnetic HF-fields	80 MHz - 2 GHz at 10 V/m (IEC 61000-4-3)
mmunity to conducted disturbance	150 kHz - 80 MHz, (IEC 61000-4-6)
Radio frequency emission	EN 55022, class B (CISPR22)
Electrostatic discharge	15 kV (IEC 61000-4-2)
Standards	IEC 62052-11, IEC 62053-21 class 1, GB/T 17215. 211-2006, GBT 17215.321-2008 class 1, GB 4208-2008, EN 50470-1,
	EN 50470-3 category B
Dimensions	
Width	17,5 mm
Height	111 mm
	111 mm 65 mm



DIN modules