

Product Information

Digital Multipurpose Meter Ci3



- Operation in 1- or 3-line mains power systems
- Function extensions via plug-in modules for Modbus™ and Impulse output
- Measurement of voltages and currents
- True-value measurement
- Mains form and transformer ratio via front button configurable
- Panel mounting with panel clips

Accuracy

Voltage (V) : 0.5 %
 Current (A) : 0.5 %
 Neutral line current : 4 % (calculated)
 Frequency (Hz) : 0.1 Hz
 Power factor : 1 % of cos-phi 1
 Active power (W) : ± 1 % of the measuring range
 Reactive power (Var) : ± 1 % of the measuring range
 Apparent power (VA) : ± 1 % of the measuring range
 Electric work (kWh) : class 1 (IEC 62053-21)
 React. work (kVAh) : ± 1 % of the measuring range
 Distortion factor (% THD) : 1 % up to the 31. apollonian harmonic
 Rise time : 1 second

Output (optional)

Impulse output : 50 mA max. 250 V AC, (max. 2 modules)
 RS485 Modbus™ : 2-wire, half duplex 2400, 4800, 9600, 19200, 38400 Baud (max. 1 module)

Case

Material : Polycarbonate gem. UL94V-0
 Dimensions : front 96 x 96 mm
 mounting depth 58 mm (without modules)
 mounting depth 77.5 mm (with modules)

Panel cut-out : 92 x 92 mm
 Weight : max. 300 g (without modules)
 Connection : screw terminals 0.05..4 mm²
 Protection class : front IP54, terminals IP30

Technical data

Power supply

Supply voltage : 110..400 V AC and 120..350 V DC
 Power consumption : max. 5 VA
 Isolation : 3.25 kVeff, 50 Hz, for 1 minute between interface-input, input-supply, supply-interface

CE-conformity : IEC 61326, IEC 61010-1, IEC 62053-21

Ambient conditions

Operating temperature : -10 °C..+55 °C
 Storage temperature : -20 °C..+70 °C
 rel. humidity : 0..90 %, not condensing

Input

U_{nom} : 100..289 V AC L-N or 173..500 V AC L-L
 max. 120 % U_{nom}

Over-load : 2-times U_{nominal} for 1s
 at 5 repetitions in intervals of 5 min

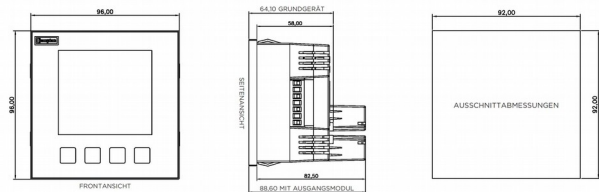
Burden : 0.2 VA (each voltage line)
 I_{nom} : 5 A AC eff. (only transformer connection, no direct connection) max. 120 % of the Nominal current

Over-load : 10-times I_{nominal} for 1s
 at 5 repetitions in intervals of 5 min

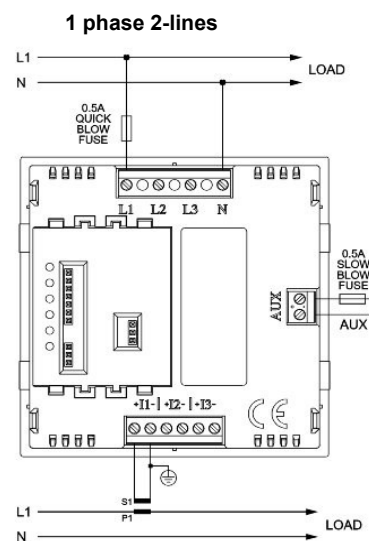
Burden : 0.6 VA (each current line)
 Frequency : 45..66 Hz

Display : LCD blue, 3-times, back-lit display
 Indicating range : ±999.9 with one decimal
 Unit : stated in clear text

Dimensions



Connection diagram

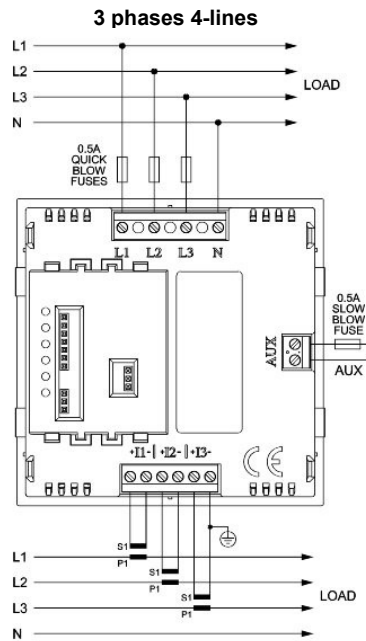
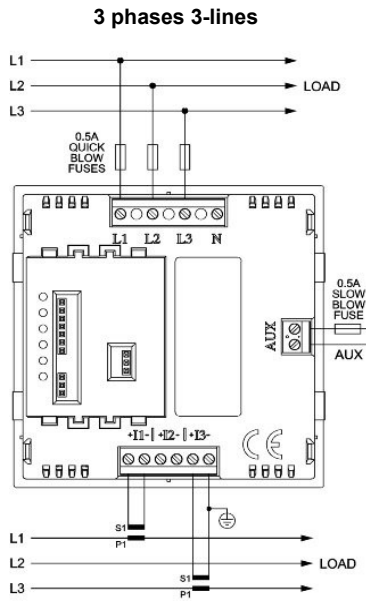


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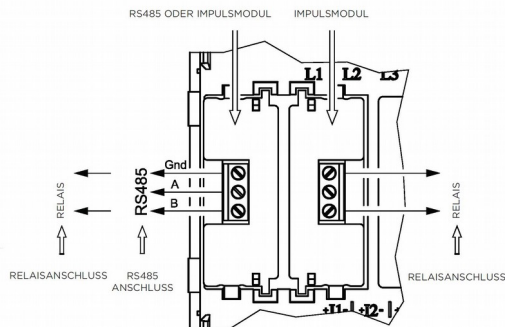
Product Information

Ordering code

Basic device	
Ci3	Integra Ci3
Accessories	
Ci-PUL-01	Module Impulse output
Ci-MOD-01	Module Modbus TM RTU Protocol RS485



Optional output modules



... professional Instruments "MADE IN GERMANY"