



3Ph kWhmeter via CT 1-5A 4M S0 MID

ECP300C

Architecture

Number of poles	4 P
Type of pole	3P+N
Fixing mode	DIN rail type O (symmetrical)

Functions

Precision class	B
Tarif type	T1...T2 (230 V AC) / -
Display features	active power : 2+2 (0.00....99.99) active energy : 7+2 (0.01.... 9999999.99)
Backstop	yes
Suitable only for indoor installation	yes
Adjustable parity parameters (odd , even, none)	no
Adjustable stop bit (1 ; 2)	no

Configuration

calibrated mesure function	yes
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Compatibility

Suitable for	Purchase / supply
Four-quadrants measuring type	yes
Compatible with IR communication interface	yes

Main electrical features

Rated operational voltage Ue	92/480 V
Type of supply voltage	AC
Frequency	50 Hz

Voltage

Max operating voltage	300 V
Rated impulse withstand voltage	6 kV
Measure voltage range P-N	92/276 V
Measure voltage range Ph-Ph	160/480 V
Max permanent voltage Ph-N	276 V AC
Permanent voltage Ph-Ph	480 V AC
Pulse output AC voltage	3 / 27,6 V AC

Technical Properties

Pulse output DC voltage	± 5/39 V DC
Reference voltage P-N	230 V AC
Reference voltage Ph-Ph	400 V AC
Supply voltage P-N	92/276 V AC
Supply voltage Ph-Ph	160/480 V AC
Max permanent voltage Ph-N (1s)	300 V AC
Max permanent voltage Ph-Ph (1s)	800 V AC

Electric current

Minimum operating current	0,001 A
Operating current	0,001/6 A
Rated current	5 A
Reference current	1 A
Max. measurement circuit current	6 A
Max permanent current	6 A
Pulse output leakage current	3 27.6 VAC / ± 5 39 VDC 1 µA
Pulse output maximum current	90 mA
Max temporary current	120 A (0.5 ms)

Frequency

Measurement range of frequency	45/65 Hz
Reference frequency	50 Hz

Power

Power consumed	2 VA
Total power loss under IN	0,6 W
Plage Impulsion/KWh	1/10000 Imp/kWh

Electrical specifications

Type of pulse generator	électrical
Precision class active energy (accord. to EN 50470-3)	B
Precision class active power (accord. to IEC 62053-21 1 and IEC 61557-12)	
Precision class reactive energy (accord. to IEC 62053-23)	2
Precision class reactive power (accord. to IEC 62053-21)	2

Resistance

Internal termination resistor Modbus (120?)	no
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Measurement

Frequency measuring range	45 to 65 Hz
Type of measuring instrument	electronical
Principle of measurement	Measurement transformer
Measurement range of the current (Min, Max)	0,01/6 A

Power supply

Supply voltage	400 V ± 20%
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Dimensions

Depth of installed product	60 mm
Height of installed product	90 mm
Width of installed product	72 mm
Measured quantities	V, A, kWh, kvarh, PF, Hz, kW, kvar

Installation, mounting

Tightening torque	0.5Nm
Mounting type	din-Rail

Connection

Cross section of digital input	0,8/2,5 mm ²
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Settings

Value of a pulse	100 Wh
Transformer interpretation adjustable	1
Transmission ratio selectable	yes

Equipment

Type of display	retro illuminated display
Tariff model of kilowatt-hour meter	Externa
Type of counter	three-phase counter with torus of measurement and impulses output
Optical metrological LED	10000 Imp/kWh
Four-quadrants measuring type	yes

Use

Pulse duration	30/100 ms
Transformation Ratio	50;5
Parameters of communication interface	kWh ->, kWh <-, kvarh ->, kvarh <--, / kWh (T1) ->, kWh (T2) ->

Standards

Standard text	EN 50470-1 / 3, IEC 62053-21 / 23, IEC 61557-12
Certified product	MID (Measuring Instruments Directive)
European directive WEEE	concerned
Product categories described in the W3E directive 2012/19/EU	Category 5

Safety

Protection index IP	IP20
Protection class	isol.class II
Class of Insulation	TBTS

Use conditions

Operating temperature	-25 55 °C
Degree of pollution according to IEC 60664 / IEC 60947-2	2
Altitude	2000 m
Storage/transport temperature	-25 70 °C