



1Ph kWhmeter direct 40A 1M

ECN140D

Architecture

Number of poles	2 P
Type of pole	1P+N
Fixing mode	DIN rail type O (symmetrical)

Functions

Precision class	B
Tarif type	One-tariff

Compatibility

Suitable for	Purchase
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Main electrical features

Frequency	50 Hz
Type of supply voltage	AC
Rated operational voltage Ue	184/276 V

Voltage

Mesure voltage range P-N	184/276 V
Max permanent voltage Ph-N	276 V AC
Reference voltage P-N	230 V AC
Supply voltage P-N	184/276 V AC
Max permanent voltage Ph-N (1s)	300 V AC
Max operating voltage	300 V
Rated impulse withstand voltage	6 kV

Electric current

Max permanent current	40 A
Max temporary current	1200 A (10 ms)
Minimum operating current	0,02 A
Operating current	0,02/40 A
Reference current	5 A
Max. measurement circuit current	40 A

Power

Power consumed	2 VA
Total power loss under IN	1 W

Electrical specifications

Type of pulse generator	optical
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Measurement

Measurement range of the current (Min, Max)	0,25/40 A
Measurement range of frequency	45/65 Hz
Frequency measuring range	45 to 65 Hz
Type of measuring instrument	electronical
Principle of measurement	Direct measurement

Power supply

Supply voltage	230 V ± 20%
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Dimensions

Depth of installed product	58 mm
Height of installed product	92 mm
Width of installed product	18 mm

Installation, mounting

Tightening torque	1 Nm
Mounting type	din-Rail

Connection

Wire cross section of metering entrance wire	16 mm ²
Wire cross section of metering outgoing wire	16 mm ²

Settings

Selection of transformation link	no
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Equipment

Type of display	LCD
Type of counter	single-phase counter

Use

Reference frequency	50 Hz
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Standards

Standard text	IEC 62053-21 / 23, IEC 61557-12
European directive WEEE	concerned

Safety

Protection class	isol.class II
Protection index IP	IP20

Use conditions

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