



ECR140D

1 Phase kWhmeter direct 40A 1M MODBUS MID

Technical properties

Architecture

Bus system	MODBUS
Number of poles	2 P
Type of pole	1P+N

Functions

Precision class	B
Tarif type	- / T1...T8 Modbus

Configuration

Number of modules	1
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Compatibility

Suitable for	Purchase / supply
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Main electrical features

Rated operational voltage Ue	92 / 276 V
Type of supply voltage	AC
Frequency	50 Hz

Voltage

Max operating voltage	300 V
Rated impulse withstand voltage	6 kV

Electric current

Minimum operating current	0.02 A
Operating current	0.02 / 40 A
Rated current	40 A
Reference current	5 A
Max. measurement circuit current	40 A

Dimensions

Depth of installed product	60 mm
Height of installed product	92 mm
Width of installed product	18 mm

Power

Power consumed	2 VA
Total power loss under IN	1 W

Electrical specifications

Type of pulse generator

optical

Measurement

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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Installation, mounting

Tightening torque	1Nm
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

Equipment

Type of display	LCD
Type of counter	single-phase counter

Standards

Standard text	EN 50470-1 / 3 ; IEC 62053-21 / 23 ; IEC 61557-12
Certified product	MID (Measuring Instruments Directive)

Safety

Protection class	isol.class II
REACH conform	Yes
RoHS conform	Yes
Halogen free	No

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