



ECR180D

1 Phase kWhmeter direct 80A 2M MODBUS MID

Technical properties

Architecture

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

Functions

Precision class	B
Tarif type	T1...T2 (230V AC) / T1...T8 Modbus

Configuration

Number of modules	2
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Compatibility

Suitable for	Purchase / supply
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Main electrical features

Rated operational voltage U_e	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	0.015 A
Operating current	0.015 / 80 A
Rated current	80 A
Reference current	5 A
Max. measurement circuit current	80 A

Dimensions

Depth of installed product	60 mm
Height of installed product	92 mm
Width of installed product	36 mm

Power

Power consumed	2 VA
Total power loss under IN	1 W

Electrical specifications

Type of pulse generator	optical
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Measurement

Frequency measuring range	45 to 65 Hz
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Type of measuring instrument	electrical
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Principle of measurement	Direct measurement
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Power supply

Supply voltage	230 V \pm 20%
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Installation, mounting

Tightening torque	2Nm
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Mounting type	din-Rail
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Connection

Wire cross section of metering entrance wire	33 mm ²
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Wire cross section of metering outgoing wire	33 mm ²
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Equipment

Type of display	retro illuminated display
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Tariff model of kilowatt-hour meter	Externa
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Type of counter	single-phase counter
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Standards

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

Protection index IP	IP20
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Protection class	isol.class II
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Use conditions

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