



ECM180D



## 1 Phase kWhmeter direct 80A 2M MBUS MID

### Technical characteristics

#### Architecture

Bus system	M-BUS
Number of poles	2 P
Type of pole	1P+N

#### Functions

Precision class	B
Tarif type	T1...T2 (230V AC) / T1...T2 M-BUS

#### Configuration

Number of modules	2
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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	0.015 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

**Measurement**

Frequency measuring range	45 to 65 Hz
Type of measuring instrument	electronical
Principle of measurement	Direct measurement

**Power supply**

Supply voltage	230 V $\pm$ 20%
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**Installation, mounting**

Tightening torque	2Nm
Mounting type	din-Rail

**Connection**

Wire cross section of metering entrance wire	33 mm <sup>2</sup>
Wire cross section of metering outgoing wire	33 mm <sup>2</sup>

**Equipment**

Type of display	retro illuminated display
Tariff model of kilowatt-hour meter	Externa
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	Yes

**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