



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
-------------------	---

**Compatibility**

Suitable for	Purchase / supply
--------------	-------------------

**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%
----------------	-------------

### Installation, mounting

Tightening torque	1Nm
Mounting type	din-Rail

### Connection

Wire cross section of metering entrance wire	16 mm <sup>2</sup>
Wire cross section of metering outgoing wire	16 mm <sup>2</sup>

### 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