yes



ECM140D

1Ph kWhmeter direct 40A 1M MBUS MID

Technische Merkmale

| Architecture | |
|-----------------|-------------------------------|
| Bus system | M-BUS |
| Number of poles | 2 P |
| Type of pole | 1P+N |
| Fixing mode | DIN rail type O (symmetrical) |
| | |

Functions

| Precision class | В |
|---|-----------------------------------|
| Tarif type | - / T1T2 M-BUS |
| Display features | active energy: 5+2 (0.0199999.99) |
| Backstop | yes |
| Suitable only for indoor installation | yes |
| Adjustable parity parameters (odd , even, none) | no |
| Adjustable stop bit (1;2) | no |

Configuration

calibrated mesure function

Compatibility

| Suitable for | Purchase / supply |
|--|-------------------|
| Four-quadrants measuring type | no |
| Compatible with IR communication interface | no |

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 |
| Mesure voltage range P-N | 92 / 276 V |
| Max permanent voltage Ph-N | 276 V AC |
| Reference voltage P-N | 230 V AC |
| Supply voltage P-N | 92 / 276 V AC |
| Max permanent voltage Ph-N (1s) | 300 V AC |

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 |
| Max permanent current | 40 A |
| Max temporary current | 1200 A (10 ms) |

no

Frequency

| Measurement range of frequency | 45 / 65 Hz |
|--------------------------------|------------|
| Reference frequency | 50 Hz |
| | |

Power

| Power consumed | 2 VA |
|---------------------------|------------------|
| Total power loss under IN | 1 W |
| Network baud rate | 300 / 9600 bit/s |

Electrical specifications

| Type of pulse generator | optical |
|--|---------|
| Precision class active energy (accord. to EN 50470-3) | В |
| Precision class active power (accord. to IEC 62053-21 and IEC 61557-12) | 1 |
| Precision class reactive energy (accord. to IEC 62053-23) | 2 |
| Precision class reactive power (accord. to IEC 62053-21) | 2 |

Resistance

|--|

Measurement

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

Power supply

| Supply voltage | 230 V ± 20% |
|----------------|-------------|
|----------------|-------------|

Dimensions

| Depth of installed product | 60 mm |
|------------------------------|-----------------------|
| Height of installed product | 92 mm |
| Width of installed product | 18 mm |
| Cross section of bus network | 0,5 / 2,5 mm² |
| Measured quantities | V, A, kWh, PF, Hz, kW |

Installation, mounting

| Tightening torque | 1Nm |
|-------------------|----------|
| Mounting type | din-Rail |

Connection

| Wire cross section of metering entrance wire | 16 mm² |
|--|--------|
| Wire cross section of metering outgoing wire | 16 mm² |

Settings

| adjustable address communication interface | 0250 |
|--|------|
| Transmission ratio selectable | no |
| | |

Equipment

| Type of display | LCD |
|-------------------------------|----------------------|
| Type of counter | single-phase counter |
| Optical metrological LED | 5000 Imp/kWh |
| Four-quadrants measuring type | yes |

Standards

| Standard text | t EN 50470-1 / 3, IEC 62053-21 / 23, IEC 61557-12 | |
|--|---|--|
| Certified product | MID (Measuring Instruments Directive) | |
| European directive WEEE | concerned | |
| Product categories described in the W3E directive 2012/19/EU | Category 5 | |

Safety

| IP20 |
|---------------|
| isol.class II |
| TBTS |
| |

Use conditions

| Operating temperature | -2555 °C |
|--|----------|
| Degree of pollution according to IEC 60664 / IEC 60947-2 | 2 |
| Altitude | 2000 m |
| Storage/transport temperature | -2570 °C |