Product leaflet

Single phase electricity meters A41 and A42 EQ meters in Bronze version from ABB

The compact and versatile EQ meters A41 and A42 are single phase meters with full four quadrants measuring meaning both active/reactive energy measurements and import/export of energy. They can be used in most of the common applications for reliable and trustworthy metering of energy usage.

EQ meters A41 and A42 in Bronze version can be used in stand-alone applications or metering network installations with the option of inbuilt M-Bus or Modbus.



General features

The A series meters are ideal for many applications and installations. The meters support a wide voltage range as well as a wide temperature range. The display is pixel-oriented and can display up to four quantities at the same time. Navigating the meter is easily done via the push-buttons below the display. To configure the meter settings, the set button must be accessed and this button is protected against unauthorized use when the transparent lid on the front of the meter is closed and sealed. The power consumption of the meter is very low, less than 0.8 VA, makes them economical in the long run - an important feature especially for large meter populations.

Communication

Data from A41 and A42 in Bronze version can be collected via pulse output or serial communication. The meters are equipped with a transistor output for 5-40 VDC external supply. It can be used for pulses proportionally to the measured energy or various alarms. The meters are also available with built-in serial communication interfaces for Modbus RTU (RS-485) or M-Bus as options.

Import and export measurements

B21 Bronze version measures the energy flowing both in (imported) and out (exported) through the meter and saves the energy in separate registers.

Approvals

The A41 and A42 meters are type approved according to IEC as well as type approved and verified according to MID. MID is the Measure Instruments Directive 2004/22/EC from European Commission. The type approval is according to stan-

dards that covers all relevant technical aspects of the meter. These include climate conditions, electromagnetic compatibility (EMC), electrical requirements, mechanical requirements and accuracy.

Instrumentation

The A41 and A42 meters in Bronze version support reading of instrument values.

A large number of electrical properties can be read.

- Active power Total and per phase
- Reactive power Total and per phase
- Apparent power Total and per phase
- Current
- Voltage
- Power factor
- Frequency

Voltage V

Ordering details

80 A direct connected, 4 DIN

| Voltage V | Communication | Туре | Order code | Weight 1 pc |
|-------------------------------|---------------------|----------------------|----------------------------|----------------|
| Bronze Active and reactive | energy, import/expo | t, pulse output, cla | ass B (Cl. 1), reactive Cl | .2. |
| 57.7288 V AC | RS-485 | A41 212 - 100 | 2CMA170501R1000 | 0.23 |

6 A transformer CTVT connected, 4 DIN

Communication Type

| | | | | 1 pc |
|-------------------------------|----------------------|----------------------|----------------------------|------|
| Bronze Active and reactive | energy, import/expor | t, pulse output, cla | ass B (Cl. 1), reactive Cl | .2. |
| 57.7288 V AC | RS-485 | A42 212 - 100 | 2CMA170511R1000 | 0.20 |

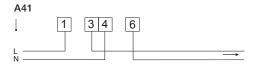
Weight

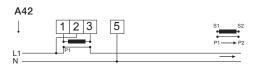
A series

Technical data

| | A41 | A42 |
|--|--|--|
| Voltage/current inputs | i | <u> </u> |
| Nominal voltage | 230 V AC | |
| Voltage range | 57.7 288 VAC (-20% - +15%) | - |
| Power dissipation voltage circuits | 0.8 VA (0.8 W) total | - |
| Power dissipation current circuits | 0.007 VA (0.007 W) at 230 V AC and I | 0.001 VA (0.001 W) at 230 V AC and I, |
| Base current I _b | 5 A | - |
| Rated current I. | - | 1 A |
| Reference current I _{ref} | 5 A | - |
| Transitional current I _r | 0.5 A | 0.05 A |
| Maximum current I _{max} | 80 A | 6 A |
| Minimum current I _{min} | 0.25 A | 0.02 A |
| Starting current I _{st} | < 20 mA | < 1 mA |
| Terminal wire area | 1 - 25 mm² | 0.5 - 10 mm ² |
| Recommended tightening torque | 3 Nm | 1.5 Nm |
| Communication | [O 1411 | ; 1.01411 |
| Terminal wire area | 0.5 - 1 mm ² | |
| | 0.25 Nm | |
| Recommended tightening torque Transformer ratios | U.ZU INIII | |
| Configurable current ratio (VT) | [_ | 1/999 - 999999/1 |
| Configurable current ratio (VT) Configurable current ratio (CT) | <u>-</u> | 1/9 - 9999/1 |
| Pulse indicator (LED) | <u>[</u> | 1/3 - 3333/1 |
| · , | 1000 imp////h | 5000 imp /////h |
| Pulse frequency | 1000 imp/kWh | 5000 imp/kWh |
| Pulse length | 40 ms | |
| General data | F0 == C0 LI= + F0/ | |
| Frequency | 50 or 60 Hz ± 5% | D(0 1) 0 (0 050) |
| Accuracy Class | B (Cl. 1) and reactive Cl. 2 | B (Cl. 1), C (Cl. 0.5 S) or reactive Cl. 2 |
| Active energy | 1% | 0.5 %, 1% |
| Display of energy | Pixel oriented | |
| Environmental | T | |
| Operating temperature | -40°C - +70°C | |
| | -40°C - +85°C | |
| Storage temperature | | |
| | 75% yearly average, 95% on 30 days/yea | ····· |
| Humidity | 75% yearly average, 95% on 30 days/yea Terminal 960 °C, cover 650°C (IEC 6069) | 5-2-1) |
| Humidity | 75% yearly average, 95% on 30 days/yea Terminal 960 °C, cover 650°C (IEC 6069) | 5-2-1) |
| Humidity Resistance to fire and heat | 75% yearly average, 95% on 30 days/yer Terminal 960 °C, cover 650°C (IEC 6069: IP20 on terminal block without protective according to IEC 60529. | 5-2-1) enclosure and IP51 in protective enclosure |
| Humidity Resistance to fire and heat Resistance to water and dust Mechanical environment | 75% yearly average, 95% on 30 days/ye. Terminal 960 °C, cover 650°C (IEC 6069: IP20 on terminal block without protective according to IEC 60529. Class M2 in accordance with the Measur | 5-2-1) enclosure and IP51 in protective enclosure, ng Instrument Directive (MID). (2004/22/EC |
| Humidity Resistance to fire and heat Resistance to water and dust Mechanical environment | 75% yearly average, 95% on 30 days/ye. Terminal 960 °C, cover 650°C (IEC 6069: IP20 on terminal block without protective according to IEC 60529. Class M2 in accordance with the Measur | 5-2-1) enclosure and IPS1 in protective enclosure ng Instrument Directive (MID). (2004/22/EC |
| Humidity Resistance to fire and heat Resistance to water and dust Mechanical environment Electromagnetic environment Outputs | 75% yearly average, 95% on 30 days/ye. Terminal 960 °C, cover 650°C (IEC 6069: IP20 on terminal block without protective according to IEC 60529. Class M2 in accordance with the Measur | 5-2-1) enclosure and IPS1 in protective enclosure ng Instrument Directive (MID). (2004/22/EC |
| Humidity Resistance to fire and heat Resistance to water and dust Mechanical environment Electromagnetic environment Outputs Current | 75% yearly average, 95% on 30 days/yer Terminal 960 °C, cover 650°C (IEC 6069: IP20 on terminal block without protective according to IEC 60529. Class M2 in accordance with the Measuri Class E2 in accordance with the Measuri | 5-2-1) enclosure and IP51 in protective enclosure ng Instrument Directive (MID). (2004/22/EC) ng Instrument Directive (MID), (2004/22/EC) |
| Humidity Resistance to fire and heat Resistance to water and dust Mechanical environment Electromagnetic environment Outputs Current Voltage | 75% yearly average, 95% on 30 days/ye. Terminal 960 °C, cover 650°C (IEC 6069: IP20 on terminal block without protective according to IEC 60529. Class M2 in accordance with the Measuri Class E2 in accordance with the Measuri | 5-2-1) enclosure and IP51 in protective enclosure ng Instrument Directive (MID). (2004/22/EC) ng Instrument Directive (MID), (2004/22/EC) |
| Humidity Resistance to fire and heat Resistance to water and dust Mechanical environment Electromagnetic environment Outputs Current Voltage Pulse output frequency | 75% yearly average, 95% on 30 days/ye. Terminal 960 °C, cover 650°C (IEC 6069: IP20 on terminal block without protective according to IEC 60529. Class M2 in accordance with the Measuri Class E2 in accordance with the Measuri 2 - 100 mA 5 - 240 V AC/DC. For meters with only 1 | 5-2-1) enclosure and IP51 in protective enclosure ng Instrument Directive (MID). (2004/22/EC) ng Instrument Directive (MID), (2004/22/EC) |
| Humidity Resistance to fire and heat Resistance to water and dust Mechanical environment Electromagnetic environment Outputs Current Voltage Pulse output frequency Pulse length | 75% yearly average, 95% on 30 days/ye. Terminal 960 °C, cover 650°C (IEC 6069: IP20 on terminal block without protective according to IEC 60529. Class M2 in accordance with the Measuri Class E2 in accordance with the Measuri 2 - 100 mA 5 - 240 V AC/DC. For meters with only 1 Programmable: 1 - 999999 imp/kWh | 5-2-1) enclosure and IP51 in protective enclosure, ng instrument Directive (MID). (2004/22/EC) ng Instrument Directive (MID), (2004/22/EC) |
| Humidity Resistance to fire and heat Resistance to water and dust Mechanical environment Electromagnetic environment Outputs Current Voltage Pulse output frequency Pulse length | 75% yearly average, 95% on 30 days/yearly average, 95% on 30 days/yearly average, 95% or 30 days/yearly ferminal 960 °C, cover 650°C (IEC 60699). IP20 on terminal block without protective according to IEC 60529. Class M2 in accordance with the Measuric Class E2 in accordance with t | 5-2-1) enclosure and IP51 in protective enclosure, ng instrument Directive (MID). (2004/22/EC) ng Instrument Directive (MID), (2004/22/EC) |
| Humidity Resistance to fire and heat Resistance to water and dust Mechanical environment Electromagnetic environment Outputs Current Voltage Pulse output frequency Pulse length Terminal wire area | 75% yearly average, 95% on 30 days/ye. Terminal 960 °C, cover 650°C (IEC 6068/IP20 on terminal block without protective according to IEC 60529. Class M2 in accordance with the Measuri Class E2 in accordance with the Measuri 2 - 100 mA 5 - 240 V AC/DC. For meters with only 1 Programmable: 1 - 999999 imp/kWh Programmable: 10 - 990 ms 0.5 - 1 mm² | 5-2-1) enclosure and IP51 in protective enclosure, ng instrument Directive (MID). (2004/22/EC) ng Instrument Directive (MID), (2004/22/EC) |
| Humidity Resistance to fire and heat Resistance to water and dust Mechanical environment Electromagnetic environment Outputs Current Voltage Pulse output frequency Pulse length Terminal wire area Recommended tightening torque | 75% yearly average, 95% on 30 days/ye. Terminal 960 °C, cover 650°C (IEC 6068/IP20 on terminal block without protective according to IEC 60529. Class M2 in accordance with the Measuri Class E2 in accordance with the Measuri 2 - 100 mA 5 - 240 V AC/DC. For meters with only 1 Programmable: 1 - 999999 imp/kWh Programmable: 10 - 990 ms 0.5 - 1 mm² | 5-2-1) enclosure and IP51 in protective enclosure, ng instrument Directive (MID). (2004/22/EC) ng Instrument Directive (MID), (2004/22/EC) |
| Humidity Resistance to fire and heat Resistance to water and dust Mechanical environment Electromagnetic environment Outputs Current Voltage Pulse output frequency Pulse length Terminal wire area Recommended tightening torque EMC compatibility Impulse voltage test | 75% yearly average, 95% on 30 days/ye. Terminal 960 °C, cover 650°C (IEC 6069: IP20 on terminal block without protective according to IEC 60529. Class M2 in accordance with the Measuri Class E2 in accordance with the Measuri 2 - 100 mA 5 - 240 V AC/DC. For meters with only 1 Programmable: 1 - 999999 imp/kWh Programmable: 10 - 990 ms 0.5 - 1 mm² 0.25 Nm | 5-2-1) enclosure and IP51 in protective enclosure ng Instrument Directive (MID). (2004/22/EC) ng Instrument Directive (MID), (2004/22/EC) |
| Humidity Resistance to fire and heat Resistance to water and dust Mechanical environment Electromagnetic environment Outputs Current Voltage Pulse output frequency Pulse length Terminal wire area Recommended tightening torque EMC compatibility Impulse voltage test Surge voltage test | 75% yearly average, 95% on 30 days/ye. Terminal 960 °C, cover 650°C (IEC 6069: IP20 on terminal block without protective according to IEC 60529. Class M2 in accordance with the Measuri Class E2 in accordance with the Measuri 2 - 100 mA 5 - 240 V AC/DC. For meters with only 1 Programmable: 1 - 999999 imp/kWh Programmable: 10 - 990 ms 0.5 - 1 mm² 0.25 Nm | 5-2-1) enclosure and IP51 in protective enclosure ng Instrument Directive (MID). (2004/22/EC) ng Instrument Directive (MID), (2004/22/EC) |
| Humidity Resistance to fire and heat Resistance to water and dust Mechanical environment Electromagnetic environment Outputs Current Voltage Pulse output frequency Pulse length Terminal wire area Recommended tightening torque EMC compatibility Impulse voltage test Surge voltage test Fast transient burst test | 75% yearly average, 95% on 30 days/ye. Terminal 960 °C, cover 650°C (IEC 6069: IP20 on terminal block without protective according to IEC 60529. Class M2 in accordance with the Measuri Class E2 in accordance with the Measuri 2 - 100 mA 5 - 240 V AC/DC. For meters with only 1 Programmable: 10 - 990 ms 0.5 - 1 mm² 0.25 Nm 6 kV 1.2/50µs (IEC 60060-1) 4 kV 1.2/50µs (IEC 61000-4-5) 4 kV (IEC 61000-4-4) | 5-2-1) enclosure and IP51 in protective enclosure ng Instrument Directive (MID). (2004/22/EC) ng Instrument Directive (MID), (2004/22/EC) output, 5 - 40 V DC. |
| Humidity Resistance to fire and heat Resistance to water and dust Mechanical environment Electromagnetic environment Outputs Current Voltage Pulse output frequency Pulse length Terminal wire area Recommended tightening torque EMC compatibility Impulse voltage test Surge voltage test Fast transient burst test Immunity to electromagnetic HF-fields | 75% yearly average, 95% on 30 days/yer Terminal 960 °C, cover 650°C (IEC 6069: IP20 on terminal block without protective according to IEC 60529. Class M2 in accordance with the Measuri Class E2 in accordance with the Measuri 2 - 100 mA 5 - 240 V AC/DC. For meters with only 1 Programmable: 1 - 999999 imp/kWh Programmable: 10 - 990 ms 0.5 - 1 mm² 0.25 Nm 6 kV 1.2/50µs (IEC 60060-1) 4 kV 1.2/50µs (IEC 61000-4-5) 4 kV (IEC 61000-4-4) 80 MHz - 2 GHz at 10 V/m (IEC 61000-4-6) | 5-2-1) enclosure and IP51 in protective enclosure ng Instrument Directive (MID). (2004/22/EC) ng Instrument Directive (MID), (2004/22/EC) output, 5 - 40 V DC. |
| Humidity Resistance to fire and heat Resistance to water and dust Mechanical environment Electromagnetic environment Outputs Current Voltage Pulse output frequency Pulse length Terminal wire area Recommended tightening torque EMC compatibility Impulse voltage test Surge voltage test Fast transient burst test Immunity to electromagnetic HF-fields Immunity to conducted disturbance | 75% yearly average, 95% on 30 days/ye. Terminal 960 °C, cover 650°C (IEC 6069: IP20 on terminal block without protective according to IEC 60529. Class M2 in accordance with the Measuri Class E2 in accordance with the Measuri 2 - 100 mA 5 - 240 V AC/DC. For meters with only 1 Programmable: 1 - 999999 imp/kWh Programmable: 10 - 990 ms 0.5 - 1 mm² 0.25 Nm 6 kV 1.2/50µs (IEC 60060-1) 4 kV 1.2/50µs (IEC 61000-4-5) 4 kV (IEC 61000-4-4) 80 MHz - 2 GHz at 10 V/m (IEC 61000-4-6) | 5-2-1) enclosure and IP51 in protective enclosure ng Instrument Directive (MID). (2004/22/EC) ng Instrument Directive (MID), (2004/22/EC) output, 5 - 40 V DC. |
| Humidity Resistance to fire and heat Resistance to water and dust Mechanical environment Electromagnetic environment Outputs Current Voltage Pulse output frequency Pulse length Terminal wire area Recommended tightening torque EMC compatibility Impulse voltage test Surge voltage test Fast transient burst test Immunity to electromagnetic HF-fields Immunity to conducted disturbance Immunity to disturbance with harmonics | 75% yearly average, 95% on 30 days/ye. Terminal 960 °C, cover 650°C (IEC 6069: IP20 on terminal block without protective according to IEC 60529. Class M2 in accordance with the Measuri Class E2 in accordance with the Measuri 2 - 100 mA 5 - 240 V AC/DC. For meters with only 1 Programmable: 10 - 999999 imp/kWh Programmable: 10 - 990 ms 0.5 - 1 mm² 0.25 Nm 6 kV 1.2/50µs (IEC 60060-1) 4 kV 1(EC 61000-4-6) 4 kV (IEC 61000-4-6) 5 kHz - 80 MHz (IEC 61000-4-6) 2 kHz - 150 kHz | 5-2-1) enclosure and IP51 in protective enclosure ng Instrument Directive (MID). (2004/22/EC) ng Instrument Directive (MID), (2004/22/EC) output, 5 - 40 V DC. |
| Humidity Resistance to fire and heat Resistance to water and dust Mechanical environment Electromagnetic environment Outputs Current Voltage Pulse output frequency Pulse length Terminal wire area Recommended tightening torque EMC compatibility Impulse voltage test Surge voltage test Fast transient burst test Immunity to electromagnetic HF-fields Immunity to conducted disturbance Immunity to disturbance with harmonics Radio frequency emission | 75% yearly average, 95% on 30 days/ye. Terminal 960 °C, cover 650°C (IEC 6069: IP20 on terminal block without protective according to IEC 60529. Class M2 in accordance with the Measuri Class E2 in accordance with the Measuri 2 - 100 mA 5 - 240 V AC/DC. For meters with only 1 Programmable: 1 - 999999 imp/kWh Programmable: 10 - 990 ms 0.5 - 1 mm² 0.25 Nm 6 kV 1.2/50µs (IEC 60060-1) 4 kV 1.2/50µs (IEC 61000-4-5) 4 kV (IEC 61000-4-4) 80 MHz - 2 GHz at 10 V/m (IEC 61000-4-6) 2 kHz - 150 kHz EN 55022, class B (CISPR22) | 5-2-1) enclosure and IP51 in protective enclosure, ng Instrument Directive (MID). (2004/22/EC) ng Instrument Directive (MID), (2004/22/EC) output, 5 - 40 V DC. |
| Humidity Resistance to fire and heat Resistance to water and dust Mechanical environment Electromagnetic environment Outputs Current Voltage Pulse output frequency Pulse length Terminal wire area Recommended tightening torque EMC compatibility Impulse voltage test Surge voltage test Fast transient burst test Immunity to electromagnetic HF-fields Immunity to conducted disturbance Immunity to disturbance with harmonics Radio frequency emission | 75% yearly average, 95% on 30 days/ye. Terminal 960 °C, cover 650°C (IEC 6068/IP20 on terminal block without protective according to IEC 60529. Class M2 in accordance with the Measuri Class E2 in accordance with the Measuri 2 - 100 mA 5 - 240 V AC/DC. For meters with only 1 Programmable: 1 - 999999 imp/kWh Programmable: 10 - 990 ms 0.5 - 1 mm² 0.25 Nm 6 kV 1.2/50µs (IEC 60060-1) 4 kV 1.2/50µs (IEC 61000-4-5) 4 kV (IEC 61000-4-4) 80 MHz - 2 GHz at 10 V/m (IEC 61000-4-6) 2 kHz - 150 kHz EN 55022, class B (CISPR22) 15 kV (IEC 61000-4-2) | 5-2-1) enclosure and IP51 in protective enclosure ing Instrument Directive (MID). (2004/22/EC) ing Instrument Directive (MID), (2004/22/EC) output, 5 - 40 V DC. |
| Humidity Resistance to fire and heat Resistance to water and dust Mechanical environment Electromagnetic environment Outputs Current Voltage Pulse output frequency Pulse length Terminal wire area Recommended tightening torque EMC compatibility Impulse voltage test Surge voltage test Fast transient burst test Immunity to electromagnetic HF-fields Immunity to disturbance with harmonics Radio frequency emission Electrostatic discharge | 75% yearly average, 95% on 30 days/ye. Terminal 960 °C, cover 650°C (IEC 6068/IP20 on terminal block without protective according to IEC 60529. Class M2 in accordance with the Measuri Class E2 in accordance with the Measuri 2 - 100 mA 5 - 240 V AC/DC. For meters with only 1 Programmable: 1 - 999999 imp/kWh Programmable: 10 - 990 ms 0.5 - 1 mm² 0.25 Nm 6 kV 1.2/50µs (IEC 60060-1) 4 kV 1.2/50µs (IEC 61000-4-5) 4 kV (IEC 61000-4-4) 80 MHz - 2 GHz at 10 V/m (IEC 61000-4-6) 2 kHz - 150 kHz EN 55022, class B (CISPR22) 15 kV (IEC 61000-4-2) | 6-2-1) enclosure and IP51 in protective enclosure, ng Instrument Directive (MID). (2004/22/EC) ng Instrument Directive (MID), (2004/22/EC) output, 5 - 40 V DC. |
| Humidity Resistance to fire and heat Resistance to water and dust Mechanical environment Electromagnetic environment Outputs Current Voltage Pulse output frequency Pulse length Terminal wire area Recommended tightening torque EMC compatibility Impulse voltage test Surge voltage test Fast transient burst test Immunity to electromagnetic HF-fields Immunity to disturbance with harmonics Radio frequency emission Electrostatic discharge | 75% yearly average, 95% on 30 days/ye. Terminal 960 °C, cover 650°C (IEC 6069: IP20 on terminal block without protective according to IEC 60529. Class M2 in accordance with the Measuri Class E2 in accordance with the Measuri 2 - 100 mA 5 - 240 V AC/DC. For meters with only 1 Programmable: 1 - 999999 imp/kWh Programmable: 10 - 990 ms 0.5 - 1 mm² 0.25 Nm 6 kV 1.2/50µs (IEC 60060-1) 4 kV 1.2/50µs (IEC 61000-4-5) 4 kV (IEC 61000-4-4) 80 MHz - 2 GHz at 10 V/m (IEC 61000-4 150 kHz - 80 MHz (IEC 61000-4-6) 2 kHz - 150 kHz EN 55022, class B (CISPR22) 15 kV (IEC 61000-4-2) IEC 62052-11, IEC 62053-21 class 1& 2, 1 2, IEC 62054-21, GB/T 17215.211-2006, | 6-2-1) enclosure and IP51 in protective enclosure ng Instrument Directive (MID). (2004/22/EC) ng Instrument Directive (MID), (2004/22/EC) output, 5 - 40 V DC. |
| Humidity Resistance to fire and heat Resistance to water and dust Mechanical environment Electromagnetic environment Outputs Current Voltage Pulse output frequency Pulse length Terminal wire area Recommended tightening torque EMC compatibility Impulse voltage test Surge voltage test Fast transient burst test Immunity to electromagnetic HF-fields Immunity to disturbance with harmonics Radio frequency emission Electrostatic discharge Standards | 75% yearly average, 95% on 30 days/ye. Terminal 960 °C, cover 650°C (IEC 6069: IP20 on terminal block without protective according to IEC 60529. Class M2 in accordance with the Measuri Class E2 in accordance with the Measuri 2 - 100 mA 5 - 240 V AC/DC. For meters with only 1 Programmable: 1 - 999999 imp/kWh Programmable: 10 - 990 ms 0.5 - 1 mm² 0.25 Nm 6 kV 1.2/50µs (IEC 60060-1) 4 kV 1.2/50µs (IEC 61000-4-5) 4 kV (IEC 61000-4-4) 80 MHz - 2 GHz at 10 V/m (IEC 61000-4-6) 2 kHz - 150 kHz EN 56022, class B (CISPR22) 15 kV (IEC 61000-4-2) IEC 62052-11, IEC 62053-21 class 18 2, 1, 2, IEC 62054-21, GB/T 17215.211-2006, 17215.322-2008, EN 50470-1, EN 50470-1 | 6-2-1) enclosure and IP51 in protective enclosure, ing Instrument Directive (MID). (2004/22/EC) ing Instrument Directive (MID), (2004/22/EC) output, 5 - 40 V DC. EC 62053-22 class 0.5 S, IEC 62053-23 clas GB/T 17215.321-2008 class 1 & 2, GB/T 3 category A, B and C. bottom case, upper case and terminal cove |
| Humidity Resistance to fire and heat Resistance to water and dust Mechanical environment Electromagnetic environment Outputs Current Voltage Pulse output frequency Pulse length Terminal wire area Recommended tightening torque EMC compatibility Impulse voltage test Surge voltage test Fast transient burst test Immunity to electromagnetic HF-fields Immunity to disturbance with harmonics Radio frequency emission Electrostatic discharge Standards Mechanical Material | 75% yearly average, 95% on 30 days/ye. Terminal 960 °C, cover 650°C (IEC 6069: IP20 on terminal block without protective according to IEC 60529. Class M2 in accordance with the Measuri Class E2 in accordance with the Measuri 2 - 100 mA 5 - 240 V AC/DC. For meters with only 1 Programmable: 1 - 999999 imp/kWh Programmable: 10 - 990 ms 0.5 - 1 mm² 0.25 Nm 6 kV 1.2/50µs (IEC 60060-1) 4 kV 1.2/50µs (IEC 61000-4-5) 4 kV (IEC 61000-4-4) 80 MHz - 2 GHz at 10 V/m (IEC 61000-4 150 kHz - 80 MHz (IEC 61000-4-6) 2 kHz - 150 kHz EN 55022, class B (CISPR22) T5 kV (IEC 61000-4-2) IEC 62052-11, IEC 62053-21 class 18.2, 1 2, IEC 62054-21, GB/T 17215.211-2006, 17215.322-2008, EN 50470-1, EN 50470- | 6-2-1) enclosure and IP51 in protective enclosure, ing Instrument Directive (MID). (2004/22/EC) ing Instrument Directive (MID), (2004/22/EC) output, 5 - 40 V DC. EC 62053-22 class 0.5 S, IEC 62053-23 clas GB/T 17215.321-2008 class 1 & 2, GB/T 3 category A, B and C. bottom case, upper case and terminal cove |
| Humidity Resistance to fire and heat Resistance to water and dust Mechanical environment Electromagnetic environment Outputs Current Voltage Pulse output frequency Pulse length Terminal wire area Recommended tightening torque EMC compatibility Impulse voltage test Surge voltage test Surge voltage test Immunity to electromagnetic HF-fields Immunity to conducted disturbance mmunity to disturbance with harmonics Radio frequency emission Electrostatic discharge Standards Mechanical Material Dimensions | 75% yearly average, 95% on 30 days/ye. Terminal 960 °C, cover 650°C (IEC 6069: IP20 on terminal block without protective according to IEC 60529. Class M2 in accordance with the Measuri Class E2 in accordance with the Measuri 2 - 100 mA 5 - 240 V AC/DC. For meters with only 1 Programmable: 1 - 999999 imp/kWh Programmable: 10 - 990 ms 0.5 - 1 mm² 0.25 Nm 6 kV 1.2/50µs (IEC 60060-1) 4 kV 1.2/50µs (IEC 60000-4-5) 4 kV (IEC 61000-4-4) 80 MHz - 2 GHz at 10 V/m (IEC 61000-4-6) 2 kHz - 150 kHz EN 55022, class B (CISPR22) 15 kV (IEC 61000-4-2) IEC 62052-11, IEC 62053-21 class 18 2, 1 2, IEC 62054-21, GB/T 17215.211-2006, 17215.322-2008, EN 50470-1, EN 50470-1 | 6-2-1) enclosure and IP51 in protective enclosure ing Instrument Directive (MID). (2004/22/EC) ing Instrument Directive (MID), (2004/22/EC) output, 5 - 40 V DC. EC 62053-22 class 0.5 S, IEC 62053-23 cla GB/T 17215.321-2008 class 1 & 2, GB/T 3 category A, B and C. bottom case, upper case and terminal cove |
| Humidity Resistance to fire and heat Resistance to water and dust Mechanical environment Electromagnetic environment Outputs Current Voltage Pulse output frequency Pulse length Terminal wire area Recommended tightening torque EMC compatibility Impulse voltage test Surge voltage test Fast transient burst test Immunity to electromagnetic HF-fields Immunity to conducted disturbance immunity to disturbance with harmonics Radio frequency emission Electrostatic discharge Standards Mechanical Material Dimensions Width | 75% yearly average, 95% on 30 days/ye. Terminal 960 °C, cover 650°C (IEC 6069: IP20 on terminal block without protective according to IEC 60529. Class M2 in accordance with the Measuri Class E2 in accordance with the Measuri 2 - 100 mA 5 - 240 V AC/DC. For meters with only 1 Programmable: 1 - 999999 imp/kWh Programmable: 10 - 990 ms 0.5 - 1 mm² 0.25 Nm 6 kV 1.2/50µs (IEC 60060-1) 4 kV 1.2/50µs (IEC 61000-4-5) 4 kV (IEC 61000-4-4) 80 MHz - 2 GHz at 10 V/m (IEC 61000-4-6) 2 kHz - 150 kHz EN 55022, class B (CISPR22) 15 kV (IEC 61000-4-2) IEC 62052-11, IEC 62053-21 class 18.2, I 2, IEC 62054-21, GB/T 17215.211-2006, 17215.322-2008, EN 50470-1, EN 50470-170 mm | 6-2-1) enclosure and IP51 in protective enclosure, ing Instrument Directive (MID). (2004/22/EC) ing Instrument Directive (MID), (2004/22/EC) output, 5 - 40 V DC. EC 62053-22 class 0.5 S, IEC 62053-23 clas GB/T 17215.321-2008 class 1 & 2, GB/T 3 category A, B and C. bottom case, upper case and terminal cove |
| Humidity Resistance to fire and heat Resistance to water and dust Mechanical environment Electromagnetic environment Outputs Current Voltage Pulse output frequency Pulse length Terminal wire area Recommended tightening torque EMC compatibility Impulse voltage test Surge voltage test Fast transient burst test Immunity to electromagnetic HF-fields Immunity to odisturbance with harmonics Radio frequency emission Electrostatic discharge Standards Mechanical Material | 75% yearly average, 95% on 30 days/ye. Terminal 960 °C, cover 650°C (IEC 6069: IP20 on terminal block without protective according to IEC 60529. Class M2 in accordance with the Measuri Class E2 in accordance with the Measuri 2 - 100 mA 5 - 240 V AC/DC. For meters with only 1 Programmable: 1 - 999999 imp/kWh Programmable: 10 - 990 ms 0.5 - 1 mm² 0.25 Nm 6 kV 1.2/50µs (IEC 60060-1) 4 kV 1.2/50µs (IEC 60000-4-5) 4 kV (IEC 61000-4-4) 80 MHz - 2 GHz at 10 V/m (IEC 61000-4-6) 2 kHz - 150 kHz EN 55022, class B (CISPR22) 15 kV (IEC 61000-4-2) IEC 62052-11, IEC 62053-21 class 18 2, 1 2, IEC 62054-21, GB/T 17215.211-2006, 17215.322-2008, EN 50470-1, EN 50470-1 | 6-2-1) enclosure and IP51 in protective enclosure, ng Instrument Directive (MID). (2004/22/EC) ng Instrument Directive (MID), (2004/22/EC) output, 5 - 40 V DC. EC 62053-22 class 0.5 S, IEC 62053-23 clas GB/T 17215.321-2008 class 1 & 2, GB/T 3 category A, B and C. bottom case, upper case and terminal cove |

Wiring diagram





Dimensions

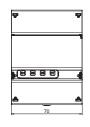




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Meters

Low Voltage Products Box 1005 S-61129 Nyköping, Sweden Phone +46 155 29 50 00

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