

Single Phase DIN Standard Credit Meter

5254F

Technical data



The 5254F meter is a DIN Standard single phase multi rate time-of-use static watt-hour meter

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5254F Technical Specification

## 5254F Technical Specifications

### General

#### Voltage

Nominal Voltage  $U_n$  220-240V

Voltage Range 80-115% $U_n$

Voltage Withstand 415V Continuous

#### Frequency

Nominal Frequency 50Hz

Frequency Variation +/- 2%

### MID-specific data

#### Current

Base Current

Direct Connection  $I_{ref}$  5, 10A

Current Max

$I_{max}$  80A

Starting Current

MID Class B 0.04  $I_{tr}$

MID Class A 0.05  $I_{tr}$

#### Measurement Accuracy

Max Measuring Range 20mA up to 80A

Measuring Accuracy

Active Energy MID Class A or B

### General

#### Operating Behaviour\*\*

Voltage Interruptions (Power Down)

Blocking of inputs and outputs Immediate

Standby Operation for 0.15s

Data Storage after 0.15s

Switch Off after approx 0.15s

Voltage Restoration (Power Up)

Function Standby <5s

(depending on duration of failure)

Detection of energy direction and phase voltage <5s

Power Supply Quality

The meter complies with EN63052-11 Section 7.1.1

Voltage range and 7.1.2 Voltage dips and short interruptions

#### Power Consumption

Voltage Circuit

<5W

<25VA

Current Circuit <4VA

### Environmental Influences

Temperature Test IEC62053-21, IEC62053-23

Temperature Range

Operation -25°C to +55°C

Power Measurement Range -40°C to +70°C

Storage -25°C to +55°C

This complies with EN 62052-11:2003 section 6.1

Temperature Coefficient \*\*

Range From -10°C to +45°C

Typical mean value  $\pm 0.015\%$  per K

$\cos\varphi = 1$  (from  $I_{min}$  to  $I_{max}$ )  $\pm 0.05\%$  per K

$\cos\varphi = 0.5$  (from  $I_{tr}$  to  $I_{max}$ )  $\pm 0.07\%$  per K

Impermeability to IEC 60529 IP51

Shock Test BS EN60068-2-27

### Electromagnetic Compatibility\*\*

Electrostatic Discharges to IEC 61000-4-2

Contact Discharges 8kV

Air Discharges 15kV

Electromagnetic RF Fields to IEC 61000-4-3

80 MHz to 2 GHz at least 10V/m

Radio Interference suppression to IEC/CISPR 22

Class B

Fast Transient Burst Test to IEC 61000-4-4

With basic current  $I_b$ :

For current and voltage circuits 4kV

For auxiliary circuits >40V 4kV

With open current circuit

for voltage and current circuits 4kV

Fast Transient Surge Test to IEC 61000-4-5

Impulse Voltage 4kV

Impedance of source  $2\Omega$

Rise/Decay time of impulse voltage 1.2 $\mu$ s/50 $\mu$ s

Rise/Decay time of impulse voltage 8 $\mu$ s/50 $\mu$ s

### Insulation Strength

Insulation Strength 4.4kV at 50Hz for 80 seconds

Impulse Voltage Strength to IEC62053-11

Impulse Voltage 6kV

Impedance of source 500 $\Omega$

Rise/Decay time of impulse voltage 1.2 $\mu$ s/50 $\mu$ s

Protection Class II to IEC626050-131  2

### Display

**Characteristics**

Type	LCD
Digit size	7mm
Number of Digits	6 significant numbers 2dp

**Communication interfaces****Optical Interface**

Type	Serial, bi-directional interface
Protocol	IEC62056-21

**Case Material****Base, Top Cover and Terminal Cover**

Flame retardant and UV stabilised polycarbonate

**Weight**

Standard	400g
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**Dimensions**

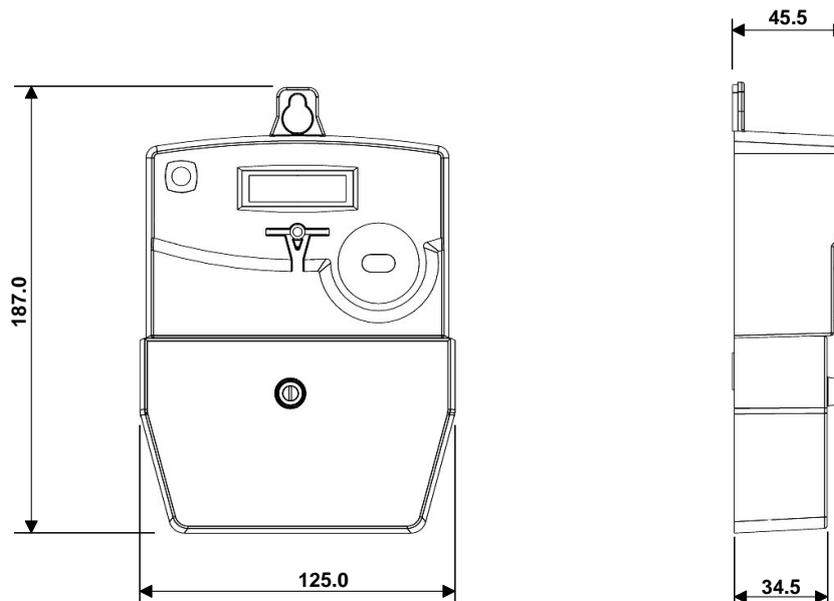
Width	125mm
Height	135mm
Depth	45.5mm
Height (with extended terminal cover)	187mm

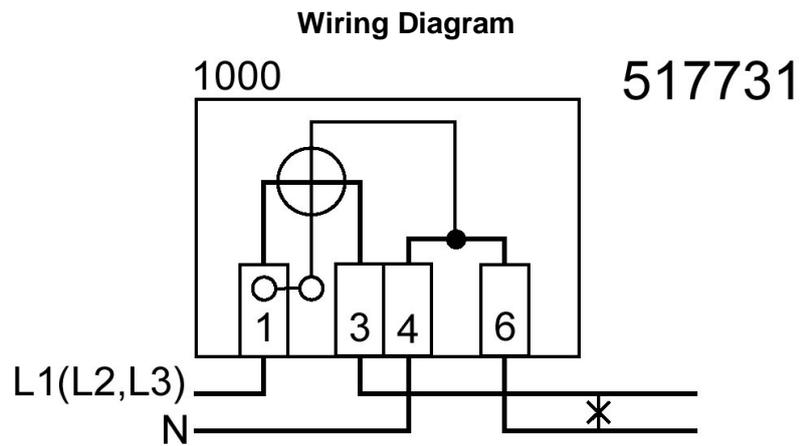
**Terminal Details**

Arrangement	DIN
Size	6mm diameter

**Connections**

Standard layout and dimensions

**Weight and Dimensions****Dimensions**

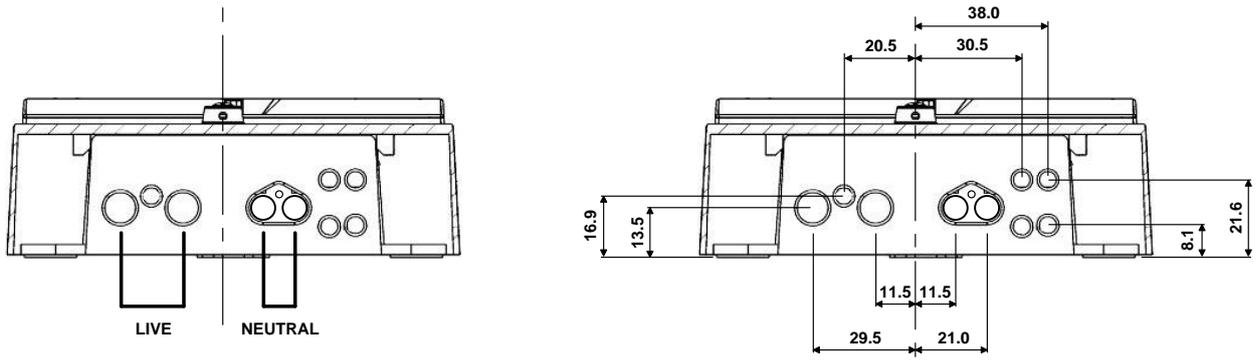


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**Terminal Layout and Phase Connection (Dimensions in mm).**



**External Connection Diagram**

