

**Data sheet**  
**SM 031 (031-1PA00)**
**Technical data**

<b>Order no.</b>	<b>031-1PA00</b>
Type	SM 031
Module ID	0882 2880
<b>General information</b>	
Note	-
Features	1/3 phase 230/400V 1A Resolution measured value
<b>Current consumption/power loss</b>	
Current consumption from backplane bus	60 mA
Power loss	0.9 W
Rated load voltage	-
<b>Status information, alarms, diagnostics</b>	
Status display	yes
Interrupts	yes, parameterizable
Process alarm	no
Diagnostic interrupt	no
Diagnostic functions	yes, parameterizable
Diagnostics information read-out	possible
Module state	green LED
Module error display	red LED
Channel error display	-
<b>Isolation</b>	
Between channels	-
Insulation tested with	AC 2200 V
<b>Energy measurement</b>	
Number of channels for measuring	1* 1..3 phases U/I
Voltage measuring range	0..300 V each phase
Coupling voltage measurement	directly
Current range	-
Coupling current measurement	Transformer
Frequency range	46..64 Hz
Measurement accuracy	1 %
Available measurement	Active energy Temperature Frequency Voltage RMS Current RMS Active power Reactive power Apparent power Cos phi Harmonic voltage RMS Harmonic current RMS

Adjustable limits

Voltage RMS min/max  
Current RMS min/max  
Cos phi min  
Temperature max.  
Frequency min/max

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**Datasizes**

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Input bytes	16
Output bytes	16
Parameter bytes	28
Diagnostic bytes	20

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**Housing**

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Material	PPE / PPE GF10
Mounting	Profile rail 35 mm

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**Mechanical data**

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Dimensions (WxHxD)	12.9 mm x 109 mm x 76.5 mm
Net weight	60 g
Weight including accessories	-
Gross weight	-

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**Environmental conditions**

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Operating temperature	0 °C to 60 °C
Storage temperature	-25 °C to 70 °C

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**Certifications**

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UL certification	-
KC certification	-

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