

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

Order no.	031-1PA00
Type	SM 031
Module ID	0882 2880
General information	
Note	-
Features	1/3 phase 230/400V 1A Resolution measured value
Current consumption/power loss	
Current consumption from backplane bus	60 mA
Power loss	0.9 W
Rated load voltage	-
Status information, alarms, diagnostics	
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	-
Isolation	
Between channels	-
Insulation tested with	AC 2200 V
Energy measurement	
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

Datasizes

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

Housing

Material	PPE / PPE GF10
Mounting	Profile rail 35 mm

Mechanical data

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

Environmental conditions

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

Certifications

UL certification	-
KC certification	-
