

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
Weight	60 g
Environmental conditions	
Operating temperature	0 °C to 60 °C
Storage temperature	-25 °C to 70 °C
Certifications	
UL certification	-
KC certification	-