

Data sheet

SM 031 (031-1BB30)

Technical data

Order no.	031-1BB30
Туре	SM 031
Module ID	0401 15C3
General information	
Note	-
Features	2 inputs 12Bit Voltage 010 V
Current consumption/power loss	
Current consumption from backplane bus	70 mA
Power loss	0.7 W
Technical data analog inputs	
Number of inputs	2
Cable length, shielded	200 m
Rated load voltage	DC 24 V
Current consumption from load voltage L+ (without load)	15 mA
Voltage inputs	✓
Min. input resistance (voltage range)	100 kOhm
Input voltage ranges	0 V +10 V
Operational limit of voltage ranges	+/-0.3%
Operational limit of voltage ranges with SFU	-
Basic error limit voltage ranges	+/-0.2%
Basic error limit voltage ranges with SFU	-
Destruction limit current	
Current inputs	-
Max. input resistance (current range)	-
Input current ranges	-
Operational limit of current ranges	-
Operational limit of current ranges with SFU	-
Basic error limit current ranges	-
Radical error limit current ranges with SFU	-
Destruction limit current inputs (voltage)	-
Destruction limit current inputs (electrical current)	-
Resistance inputs	-
Resistance ranges	•
Operational limit of resistor ranges	•
Operational limit of resistor ranges with SFU	-
Basic error limit	-
Basic error limit with SFU	-
Destruction limit resistance inputs	-
Resistance thermometer inputs	-
Resistance thermometer ranges	-



2
successive approximation
2 ms all channels
-50dB at 50Hz (UCM<2V)
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10
10
10
res
possible
reen LED
ed LED
ed LED per channel
v
/
OC 2 V
DC 75 V/ AC 60 V
DC 500 V
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Parameter bytes	6	A YASKAWA COMPANY	
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	0 °C to 60 °C	
Storage temperature	-25 °C to 70 °C		
Certifications			
UL508 certification	yes	yes	