

Data sheet SM 031 (031-1BB40)

Technical data

Order no.	031-1BB40
Туре	SM 031
Module ID	0402 15C3
General information	
Note	-
Features	2 inputs 12Bit Current 0(4)20 mA
Current concumption/newer loss	
Current consumption/power loss	80 mA
Current consumption from backplane bus	
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)	-
Input voltage ranges	-
Operational limit of voltage ranges	-
Operational limit of voltage ranges with SFU	-
Basic error limit voltage ranges	-
Basic error limit voltage ranges with SFU	-
Destruction limit voltage	-
Current inputs	yes
Max. input resistance (current range)	110 Ohm
Input current ranges	0 mA +20 mA +4 mA +20 mA
Operational limit of current ranges	+/-0.3% +/-0.5%
Operational limit of current ranges with SFU	-
Basic error limit current ranges	+/-0.2% +/-0.3%
Radical error limit current ranges with SFU	-
Destruction limit current inputs (voltage)	max. 24V
Destruction limit current inputs (electrical current)	max. 40mA
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	-



Operational limit of resistance thermometer ranges - Basic error limit thermoresistor ranges - Basic error limit thermoresistor ranges - Destruction limit resistance thermometer inputs - Thermocouple inputs - Cheractional limit of thermocouple ranges - Operational limit of thermocouple ranges with SFU - Basic error limit thermoelement ranges with SFU - Destruction limit thermoelement ranges with SFU - Basic error limit thermoelement ranges with SFU - Destruction limit thermoelement ranges with SFU - Total thermoelement ranges with SFU - Total thermoelement ranges with SFU - Total thermoelement ranges with	Operational limit of resistance thermometer ranges	- A YASKAWA COMPANY
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Input bytes 4 Output bytes 0	Insulation tested with	DC 500 V
Output bytes 0	Datasizes	
Output bytes 0	Input bytes	4
·	Parameter bytes	6



Diagnostic bytes	20	A YASKAWA COMPANY	
Housing			
Housing			
Material	PPE / PPE GF10		
Mounting	Profile rail 35 mm		
Mechanical data			
Dimensions (WxHxD)	12.9 mm x 109 mm x 76.5	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	yes		
KC certification	yes	yes	
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