

Data sheet

SM 031 (031-1BD40)

Technical data

TypeSM 031Module ID0405 15C4General Information-Nois-Features1/pupts 128it Current 0(4)20 mACurrent consumption/power loss75 mACurrent consumption from backplane bus75 mAPower loss0.7 WTechnical data analog Inputs4Number of Inputs200 mRated load voltage00 mRated load voltage0.24 VCurrent consumption from load voltage L+ (without load)15 mAVoltage inputs-Mn. Input resistance (voltage ranges)-Inn, Input resistance (voltage ranges)-Sesic error limit voltage ranges-Operational limit d voltage ranges-Basic error limit voltage ranges with SFU-Basic error limit voltage ranges-Mur, Input resistance (current range)110 OhmInput resistance (current ranges)+Mur, -+20 mA+Mack input resistance (current ranges)+Mack input resistance (current ranges)-Input current ranges+Mack input resistance (current ranges)+Mack input resistance (curren	Order no.	031-1BD40
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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-	Destruction limit current inputs (electrical current)	max. 40mA
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Resistance thermometer inputs -	Basic error limit with SFU	-
	Destruction limit resistance inputs	-
Resistance thermometer ranges -	Resistance thermometer inputs	-
	Resistance thermometer ranges	



	YASKAWA VIPA CONTROLS
Operational limit of resistance thermometer ranges	
Operational limit of resistance thermometer ranges with SFU	-
Basic error limit thermoresistor ranges	-
Basic error limit thermoresistor ranges with SFU	
Destruction limit resistance thermometer inputs	-
Thermocouple inputs	
Thermocouple ranges	-
Operational limit of thermocouple ranges	-
Operational limit of thermocouple ranges with SFU	-
Basic error limit thermoelement ranges	-
Basic error limit thermoelement ranges with SFU	-
Destruction limit thermocouple inputs	-
Programmable temperature compensation	-
External temperature compensation	-
Internal temperature compensation	-
Temperature error internal compensation	
Technical unit of temperature measurement	
Resolution in bit	12
Measurement principle	successive approximation
Basic conversion time	4 ms all channels
Noise suppression for frequency	>50dB at 50Hz (UCM<2V)
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Status information, alarms, diagnostics	
Status display	yes
Interrupts	no
Process alarm	no
Diagnostic interrupt	no
Diagnostic functions	yes
Diagnostics information read-out	possible
Module state	green LED
Module error display	red LED
Channel error display	red LED per channel
Isolation	
Between channels	-
Between channels of groups to	-
Between channels and backplane bus	yes
Between channels and power supply	yes
Max. potential difference between circuits	-
Max. potential difference between inputs (Ucm)	DC 2 V
Max. potential difference between Mana and Mintern (Uiso)	-
Max. potential difference between inputs and Mana (Ucm)	
Max. potential difference between inputs and Mintern (Uiso)	DC 75 V/ AC 50 V
Max. potential difference between Mintern and outputs	
Insulation tested with	DC 500 V
Datasizes	
Input bytes	8
Output bytes	0

Parameter bytes

8



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	yes	
KC certification	yes	