

Data sheet

SM 031 (031-1CD40)

Technical data

TypeSM 031Module ID0412 1544General Information-Nois-Features4/loptat 168ir Current 0(4)20 mACurrent consumption/power loss65 mAPower loss0.8 WTechnical data analog Inputs4Current consumption from backplane bus65 mAPower loss0.8 WTechnical data analog Inputs4Current consumption from backplane bus4Cable lengh, shielded200 mRated load voltageDC 24 VCurrent consumption from load voltage L= (without load)20 mAVoltage inputs-Min. input resistance (voltage range)-Inin. input resistance (voltage ranges)-Sesic error limit voltage ranges-Operational limit d voltage ranges with SFU-Basic error limit voltage ranges with SFU-Basic error limit voltage ranges with SFU-Basic error limit voltage ranges+Murrent ranges-Max, 200 mA+Max, 200 mA+Max, 200 mA+Max, 200 mA+Sector limit voltage ranges with SFU-Basic error limit voltage ranges+Max, 200 mA+Max, 200 mA	Order no.	031-1CD40
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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	16
Measurement principle	successive approximation
Basic conversion time	240 µs all channels
Noise suppression for frequency	>80dB (UCM<4V)
Status information, alarms, diagnostics	
Status display	yes
Interrupts	yes, parameterizable
Process alarm	yes, parameterizable
Diagnostic interrupt	yes, parameterizable
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 4 V

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DC 500 V

DC 75 V/ AC 50 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)

Max. potential difference between Mintern and outputs

Insulation tested with

Datasizes Input bytes

Output bytes

Parameter bytes



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	