YASKAWA

Data sheet
SM 332 (332-5HD01)

Technical data

Order no.	332-5HD01
Type	SM 332
General information	
Note	-
Features	4x AO 12 Bit Voltage +/- 10 V, 1…5 V, 0…10 V Current +/- 20 mA, 0/4…20 mA Parameterizable For 20 pole front connectors
SPEED-Bus	-
Current consumption/power loss	
Current consumption from backplane bus	125 mA
Current consumption from load voltage L+ (without load)	-
Power loss	3.5 W
Technical data analog outputs	
Number of outputs	4
Cable length, shielded	-
Rated load voltage	DC 24 V
Reverse polarity protection of rated load voltage	-
Current consumption from rated load voltage	115 mA
Voltage output short-circuit protection	yes
Voltage outputs	yes
Min. load resistance (voltage range)	1 kOhm
Max. capacitive load (current range)	1 µF
Max. inductive load (current range)	30 mA
Output voltage ranges	-10 V ... +10 V 0 V ... +10 V +1 V ... +5 V
Operational limit of voltage ranges	+/-0.2% ... +/-0.8%
Basic error limit voltage ranges	+/-0.1% ... +/-0.5%
Destruction limit against external applied voltage	max. 16V (30V / 10s)
Current outputs	yes
Max. in load resistance (current range)	500 Ohm
Max. inductive load (current range)	10 mH
Typ. open circuit voltage current output	-
Output current ranges	-20 mA ... +20 mA 0 mA ... +20 mA +4 mA ... +20 mA
Operational limit of current ranges	+/-0.3% ... +/-0.8%
Basic error limit current ranges	+/-0.2% ... +/-0.5%
Destruction limit against external applied voltage	max. 16V (30V / 10s)
Settling time for ohmic load	0.2 ms
Settling time for capacitive load	1 ms
Settling time for inductive load	1 ms
Resolution in bit	13
Conversion time	1 ms all channels

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Publish date: 12.04.2024

Substitute value can be applied	yes
Output data size	8 Byte
Status information, alarms, diagnostics	
Status display	green LED per channel
Interrupts	yes
Process alarm	no
Diagnostic interrupt	yes, parameterizable
Diagnostic functions	yes
Diagnostics information read-out	possible
Supply voltage display	none
Group error display	red SF 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)	-
Max. potential difference between Mana and Mintern (Uiso)	DC 75 V/ AC 50 V
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	DC 500 V
Datasizes	
Input bytes	0
Output bytes	8
Parameter bytes	21
Diagnostic bytes	16
Housing	
Material	PPE
Mounting	Rail System 300
Mechanical data	
Dimensions (WxHxD)	40 mm x 125 mm x 120 mm
Net weight	230 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

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