

Data sheet SM 334 (334-0KE00)

Technical data

Order no.	334-0KE00
Туре	SM 334
General information	
Note	
Features	4 inputs, 2 outputs Configurable Resistance Voltage 010 V
SPEED-Bus	-
Current consumption/power loss	
Current consumption from backplane bus	95 mA
Power loss	2 W
Technical data analog inputs	
Number of inputs	4
Cable length, shielded	100 m
Rated load voltage	DC 24 V
Reverse polarity protection of rated load voltage	-
Current consumption from load voltage L+ (without load)	40 mA
Voltage inputs	yes
Min. input resistance (voltage range)	100 kOhm
Input voltage ranges	0 V +10 V
Operational limit of voltage ranges	+/-0.7%
Operational limit of voltage ranges with SFU	
Basic error limit voltage ranges	+/-0.5%
Basic error limit voltage ranges with SFU	-
Destruction limit voltage	max. 30V
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 (electrical current)	-
Destruction limit current inputs (voltage)	-
Resistance inputs	yes
Resistance ranges	10000 Ohm
Operational limit of resistor ranges	+/-3.5%
Operational limit of resistor ranges with SFU	
Basic error limit	+/-2.8%
Basic error limit with SFU	
Destruction limit resistance inputs	max. 25V



Resistance thermometer inputs	yes	A YASKAWA COMPANY
Resistance thermometer ranges	Pt100	
Operational limit of resistance thermometer ranges	+/-1.0%	
Operational limit of resistance thermometer ranges with SFU	-	
Basic error limit thermoresistor ranges	+/-0.8%	
Basic error limit thermoresistor ranges with SFU	-	
Destruction limit resistance thermometer inputs	max. 25V	
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	°C	
Resolution in bit	12	
Measurement principle	Sigma-Delta	
Basic conversion time	350 ms	
Noise suppression for frequency	50 Hz/60 Hz	
Initial data size	8 Byte	
Technical data analog outputs		
Number of outputs	2	
Cable length, shielded	2 100 m	
Rated load voltage	DC 24 V	
Reverse polarity protection of rated load voltage		
Current consumption from load voltage L+ (without load)	40 mA	
Voltage output short-circuit protection	Ves	
Voltage outputs	Ves	
Min. load resistance (voltage range)	1 kOhm	
Max. capacitive load (current range)	1 µF	
Max. inductive load (current range)	25 mA	
Output voltage ranges	0 V +10 V	
Operational limit of voltage ranges	+/-1%	
Basic error limit voltage ranges	+/-0.8%	
Destruction limit against external applied voltage	max. 16V (30V / 10s)	
Current outputs	-	
Max. in load resistance (current range)	-	
Max. inductive load (current range)	-	
Typ. open circuit voltage current output	-	
Output current ranges	-	
Operational limit of current ranges	-	
Basic error limit current ranges	-	
Destruction limit against external applied voltage	-	
Settling time for ohmic load	0.8 ms	
	0.0 110	



Settling time for capacitive load	0.8 ms A YASKAW	A COMPANY
Settling time for inductive load	0.3 ms	
Resolution in bit	12	
Conversion time	0.5 ms per channel	
Substitute value can be applied	-	
Output data size	4 Byte	
Status information, alarms, diagnostics		
Status display	none	
Interrupts	no	
Process alarm	no	
Diagnostic interrupt	no	
Diagnostic functions	no	
Diagnostics information read-out	none	
Supply voltage display	none	
Group error display	none	
Channel error display	none	
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 1 V	
Max. potential difference between Mana and Mintern (Uiso)	DC 75 V/ AC 50 V	
Max. potential difference between inputs and Mana (Ucm)	DC 1 V	
Max. potential difference between inputs and Mintern (Uiso)	-	
Max. potential difference between Mintern and outputs		
Insulation tested with	DC 500 V	
Datasizes		
Input bytes	8	
Output bytes	4	
Parameter bytes	21	
Diagnostic bytes	0	
	-	
Housing	PPE	
Mounting	Rail System 300	
Mechanical data	40 mm v 125 mm v 120 mm	
Dimensions (WxHxD)	40 mm x 125 mm x 120 mm	
Weight	210 g	
Environmental conditions		
Operating temperature	0 °C to 60 °C	
Storage temperature	-25 °C to 70 °C	
Certifications		
UL certification	yes	

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