6ES7288-3AM06-0AA0

Data sheet



SIMATIC S7-200 SMART, analog I/O SM AM06, 4 AI/2 AO, 0..10 V, 0..5 V, 0/4..20mA, +/-5 V, +/-2.5 V, 12 bit resolution or 4...20 mA, +/-10 V 11 bit resolution

General information	
Product type designation	SM AM06, AI 4x12 bit, AQ 2x11 bit
CiR - Configuration in RUN	
Reparameterization possible in RUN	No
Supply voltage	
Type of supply voltage	DC
Rated value (DC)	24 V; -15 / +20 %
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Input current	
Current consumption, typ.	60 mA
from backplane bus 5 V DC, typ.	80 mA
Power loss	
Power loss, typ.	2 W
Analog inputs	
Number of analog inputs	4
Input ranges	
 Voltage 	Yes; ±10V, ±5V, ±2.5V
Current	Yes; 0 to 20 mA
 Thermocouple 	No
 Resistance thermometer 	No
Resistance	No
Input ranges (rated values), voltages	
• -10 V to +10 V	Yes
— Input resistance (-10 V to +10 V)	9 ΜΩ
• -2.5 V to +2.5 V	Yes
— Input resistance (-2.5 V to +2.5 V)	9 ΜΩ
• -5 V to +5 V	Yes
— Input resistance (-5 V to +5 V)	9 ΜΩ
Input ranges (rated values), currents	
• 0 to 20 mA	Yes
— Input resistance (0 to 20 mA)	250 Ω
Analog outputs	
Number of analog outputs	2; Current or voltage
Output ranges, voltage	
• -10 V to +10 V	Yes
Output ranges, current	
• 0 to 20 mA	Yes
Load impedance (in rated range of output)	
 with voltage outputs, min. 	1 kΩ

with current outputs, max.	500 Ω	
Analog value generation for the inputs		
Integration and conversion time/resolution per channel		
 Resolution with overrange (bit including sign), max. 	12 bit; voltage mode: 11 bit + sign bit, current mode: 11 bit	
 Interference voltage suppression for interference frequency f1 in Hz 	10 / 50 / 60 / 400 Hz	
Smoothing of measured values		
parameterizable	Yes; In 4 stages: 1x, 4x, 16x, 32x cycle time	
Step: None	Yes; 1x	
Step: low	Yes; 4x	
Step: Medium	Yes; 16x	
Step: High	Yes; 32x	
Analog value generation for the outputs		
Integration and conversion time/resolution per channel		
 Resolution with overrange (bit including sign), max. 	11 bit; voltage mode: 11 bit + sign bit, current mode: 11 bit	
 Resolution in isochronous mode (including overrange) 	voltage mode: 10 bit + sign bit, current mode: 10 bit	
Interrupts/diagnostics/status information		
Diagnostics function	Yes	
Diagnoses		
 Monitoring the supply voltage 	Yes	
Wire-break	Yes	
Short-circuit	Yes	
Diagnostics indication LED		
 for status of the inputs 	Yes	
 for status of the outputs 	Yes	
Degree and class of protection		
IP degree of protection	IP20	
Standards, approvals, certificates		
CE mark	Yes	
Dimensions		
Width	45 mm	
Height	100 mm	
Depth	81 mm	
Weights		
Weight, approx.	173.4 g	

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