

Data sheet

6ES7288-3AM06-0AA0

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	
<ul style="list-style-type: none"> • Voltage • Current • Thermocouple • Resistance thermometer • Resistance 	Yes; ±10V, ±5V, ±2.5V Yes; 0 to 20 mA No No No
Input ranges (rated values), voltages	
<ul style="list-style-type: none"> • -10 V to +10 V — Input resistance (-10 V to +10 V) • -2.5 V to +2.5 V — Input resistance (-2.5 V to +2.5 V) • -5 V to +5 V — Input resistance (-5 V to +5 V) 	Yes 9 MΩ Yes 9 MΩ Yes 9 MΩ
Input ranges (rated values), currents	
<ul style="list-style-type: none"> • 0 to 20 mA — Input resistance (0 to 20 mA) 	Yes 250 Ω
Analog outputs	
Number of analog outputs	2; Current or voltage
Output ranges, voltage	
<ul style="list-style-type: none"> • -10 V to +10 V 	Yes
Output ranges, current	
<ul style="list-style-type: none"> • 0 to 20 mA 	Yes
Load impedance (in rated range of output)	
<ul style="list-style-type: none"> • with voltage outputs, min. • with current outputs, max. 	1 kΩ 500 Ω
Analog value generation for the inputs	
Integration and conversion time/resolution per channel	
<ul style="list-style-type: none"> • Resolution with overrange (bit including sign), max. • Interference voltage suppression for interference frequency f1 in Hz 	12 bit; voltage mode: 11 bit + sign bit, current mode: 11 bit 10 / 50 / 60 / 400 Hz
Smoothing of measured values	
<ul style="list-style-type: none"> • parameterizable • Step: None 	Yes; In 4 stages: 1x, 4x, 16x, 32x cycle time 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

Classifications

	Version	Classification
eClass	14	27-24-22-01
eClass	12	27-24-22-01
eClass	9.1	27-24-22-01
eClass	9	27-24-22-01
eClass	8	27-24-22-01
eClass	7.1	27-24-22-01
eClass	6	27-24-22-01
ETIM	10	EC001420
ETIM	9	EC001420
ETIM	8	EC001420
ETIM	7	EC001420
IDEA	4	3562
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval



last modified:

8/3/2025

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