## SIEMENS

## Data sheet

## 6ES7336-4GE00-0AB0



SIMATIC S7, Analog input SM 336, 6 AI; 15 bit; fail-safe analog inputs for SIMATIC Safety, with HART support, up to Category 4 (EN 954-1)/ SIL3 (IEC61508)/PLE (ISO13849), 1x 20-pole

Supply voltage	
Rated value (DC)	24 V
Reverse polarity protection	Yes
Load voltage L+	
Rated value (DC)	24 V
<ul> <li>Reverse polarity protection</li> </ul>	Yes
Input current	
From power supply L+, typ.	150 mA
from backplane bus 5 V DC, max.	90 mA
Power loss	
Power loss, typ.	4.5 W
Analog inputs	
Number of analog inputs	6
permissible input current for current input (destruction limit), max.	40 mA
Input ranges	
Voltage	No
Current	Yes
Thermocouple	No
Resistance thermometer	No
Resistance	No
Input ranges (rated values), currents	
• 0 to 20 mA	Yes
<ul> <li>Input resistance (0 to 20 mA)</li> </ul>	150 $\Omega$ ; typ. 150 ohms max. 175 ohms
• 4 mA to 20 mA	Yes
— Input resistance (4 mA to 20 mA)	150 Ω; typ. 150 ohms max. 175 ohms
Cable length	
<ul> <li>shielded, max.</li> </ul>	1 000 m
Analog value generation for the inputs	
Integration and conversion time/resolution per channel	
Resolution with overrange (bit including sign), max.	16 bit; 15 bit + sign
Integration time (ms)	20 ms @ 50 Hz, 16.7 ms @ 60 Hz
Interference voltage suppression for interference frequency f1 in Hz	f=n x (f1 ±0.5 %)
Encoder	
Connection of signal encoders	
<ul> <li>for current measurement as 2-wire transducer</li> </ul>	Yes
<ul> <li>for current measurement as 4-wire transducer</li> </ul>	Yes
Errors/accuracies	
Operational error limit in overall temperature range	

<ul> <li>Current, relative to input range, (+/-)</li> </ul>	0.2 %; 40 μA	
Basic error limit (operational limit at 25 °C)		
<ul> <li>Current, relative to input range, (+/-)</li> </ul>	0.1 %	
Interrupts/diagnostics/status information		
Diagnostics function	Yes	
Alarms		
Diagnostic alarm	Yes	
Diagnoses		
Diagnostic information readable	Yes	
Diagnostics indication LED		
Fail-safe operation	Yes	
Group error SF (red)	Yes	
<ul> <li>Encoder supply Vs (green)</li> </ul>	No	
Potential separation		
Potential separation analog inputs		
between the channels	Yes	
<ul> <li>between the channels and backplane bus</li> </ul>	Yes	
<ul> <li>between the channels and the power supply of the electronics</li> </ul>	Yes	
Isolation		
Isolation tested with	370V for 1 min	
Standards, approvals, certificates		
Highest safety class achievable in safety mode		
• acc. to EN 954	4	
<ul> <li>Performance level according to ISO 13849-1</li> </ul>	e	
• SIL acc. to IEC 61508	SIL 3	
connection method		
required front connector	20-pin	
Dimensions		
Width	40 mm	
Height	125 mm	
Depth	120 mm	
Weights		
Weight, approx.	350 g	

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