SIEMENS

Data sheet

6ES7336-4GE00-0AB0



SIMATIC S7, Analog input SM 336, 6 Al; 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
Reverse polarity protection	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
— Input resistance (0 to 20 mA)	150 Ω ; 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	
shielded, max.	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	
• for current measurement as 2-wire transducer	Yes
• for current measurement as 4-wire transducer	Yes
Errors/accuracies	
Operational error limit in overall temperature range	

 Current, relative to input range, (+/-) 	0.2 %; 40 μΑ
Basic error limit (operational limit at 25 °C)	
 Current, relative to input range, (+/-) 	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
 Encoder supply Vs (green) 	No
Potential separation	
Potential separation analog inputs	
 between the channels 	Yes
 between the channels and backplane bus 	Yes
 between the channels and the power supply of the electronics 	Yes
Isolation	
Isolation tested with	370V for 1 min
Standards, approvals, certificates	
Highest safety class achievable in safety mode	
• acc. to EN 954	4
 Performance level according to ISO 13849-1 	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

last modified:

3/12/2024