6ES7336-4GE00-0AB0

Data sheet



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		
 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		
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		

Operational error limit in overall temperature range • Current, relative to input range, (+/-) Basic error limit (operational limit at 25 °C) • Current, relative to input range, (+/-) Diagnostics function Pes • Diagnostic surce • Diagnostic alarm • Diagnoses • Diagnoses • Diagnostic information readable Pes Diagnostics indication LED • Fail-safe operation • Group error SF (red) • Encoder supply Vs (green) Potential separation Potential separation Potential separation Potential separation analog inputs • between the channels A between t	Errors/accuracies		
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Width 40 mm Height 125 mm Depth 120 mm Weights	required front connector	20-pin	
Height 125 mm Depth 120 mm Weights	Dimensions		
Depth 120 mm Weights	Width	40 mm	
Weights	Height	125 mm	
	Depth	120 mm	
Weight, approx. 350 g	Weights		
	Weight, approx.	350 g	