SIEMENS

Data sheet

6ES7336-1HE00-0AB0

*** SPARE PART*** SIMATIC S7, ANALOG INPUT SM336, 6 AI; 14 BIT; 40 PIN, FAILSAFE ANALOG INPUTS FOR SIMATIC S7F SYSTEMS WITH DIAGNOST. INTERRUPT



Figure similar

Supply voltage	
Rated value (DC)	24 V
Reverse polarity protection	Yes
Input current	
From power supply L+, typ.	160 mA
from backplane bus 5 V DC, max.	90 mA
Power loss	
Power loss, typ.	4.25 W
Analog inputs	
Number of analog inputs	6
 For voltage measurement 	4
permissible input voltage for voltage input	30 V
(destruction limit), max.	
permissible input current for current input (destruction	40 mA
limit), max.	
Input ranges	

Voltage	Yes
Current	Yes
Input ranges (rated values), voltages	
• 0 to +10 V	Yes
 Input resistance (0 to 10 V) 	59 kΩ
Input ranges (rated values), currents	
• 0 to 20 mA	Yes
 Input resistance (0 to 20 mA) 	107 Ω
• 4 mA to 20 mA	Yes
 Input resistance (4 mA to 20 mA) 	107 Ω
Cable length	
• shielded, max.	200 m
Analog value generation for the inputs	
Integration and conversion time/resolution per channel	
 Resolution with overrange (bit including sign), 	14 bit
max.	
 Integration time (ms) 	20 ms (at 50 Hz); 16.66 ms (at 60 Hz)
Interference voltage suppression for	38 dB
interference frequency f1 in Hz	
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	
 Voltage, relative to input range, (+/-) 	0.48 %
 Current, relative to input range, (+/-) 	0.48 %
Basic error limit (operational limit at 25 °C)	
 Voltage, relative to input range, (+/-) 	0.4 %
• Current, relative to input range, (+/-)	0.4 %
Interrupts/diagnostics/status information	
Diagnostic functions	Yes
Alarms	
 Diagnostic alarm 	Yes; Parameterizable
Diagnostic messages	
 Diagnostic information readable 	Yes
Diagnostics indication LED	
 Fail-safe operation 	Yes
• Group error SF (red)	Yes
 Encoder supply Vs (green) 	Yes

Potential separation		
Potential separation analog inputs		
 between the channels 	No	
 between the channels and backplane bus 	Yes	
• between the channels and the power supply of the electronics	Yes; only if sensors are externally supplied	
Isolation		
Isolation tested with	500 V DC/350 V AC	
Standards, approvals, certificates		
Highest safety class achievable in safety mode		
 Requirement class according to DIN V 19250 	AK 6	
• acc. to EN 954	Cat. 4	
• SIL acc. to IEC 61508	SIL 3	
Connection method		
required front connector	40-pin	
Dimensions		
Width	80 mm	
Height	125 mm	
Depth	120 mm	
Weights		
Weight, approx.	480 g	
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