## **SIEMENS**

## **Data sheet**

## 6ES7336-1HE00-0AB0



\*\*\*Spare part\*\*\* SIMATIC S7, Analog input SM 336, 6 AI; 14 bit; 40-pole, fail-safe analog inputs for SIMATIC S7F systems with diagnostic alarm

Figure similar

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.	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 (destruction limit), max.	30 V
permissible input current for current input (destruction limit), max.	40 mA
Input ranges	
<ul> <li>Voltage</li> </ul>	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
<ul><li>— Input resistance (0 to 20 mA)</li></ul>	107 Ω
• 4 mA to 20 mA	Yes
— Input resistance (4 mA to 20 mA)	107 Ω
Cable length	000
• shielded, max.	200 m
Analog value generation for the inputs	
Integration and conversion time/resolution per channel	4419
Resolution with overrange (bit including sign), max.      Independing time (max)	14 bit
<ul> <li>Integration time (ms)</li> <li>Interference voltage suppression for interference frequency f1 in Hz</li> </ul>	20 ms (at 50 Hz); 16.66 ms (at 60 Hz) 38 dB
Encoder	
Connection of signal encoders	

- for authors made and an Author transducer	Ven
for current measurement as 2-wire transducer     for current measurement as 4-wire transducer	Yes
for current measurement as 4-wire transducer	Yes
Errors/accuracies	
Operational error limit in overall temperature range	0.40.0/
Voltage, relative to input range, (+/-)	0.48 %
• Current, relative to input range, (+/-)	0.48 %
Basic error limit (operational limit at 25 °C)	0.4.0/
Voltage, relative to input range, (+/-)	0.4 %
Current, relative to input range, (+/-)	0.4 %
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Alarms	
Diagnostic alarm	Yes; Parameterizable
Diagnoses	V
Diagnostic information readable	Yes
Diagnostics indication LED	V
Fail-safe operation     Construction	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	<u>,                                      </u>
Isolation tested with	500 V DC/350 V AC
Standards, approvals, certificates	
Highest safety class achievable in safety mode	
<ul> <li>Requirement class according to DIN V 19250</li> </ul>	AK 6
• acc. to EN 954	Cat. 4
<ul> <li>Performance level according to ISO 13849-1</li> </ul>	е
<ul> <li>SIL acc. to IEC 61508</li> </ul>	SIL 3
connection method / header	
required front connector	40-pin
Dimensions	
Width	80 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	480 g
	-

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