SIEMENS

Data sheet 6ES7336-4GE00-0AB0



spare part 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, 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	

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Operational error limit in overall temperature range	
● Current, relative to input range, (+/-)	0.2 %; 40 µA
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

Classifications

	Version	Classification
eClass	16	27-24-22-01
eClass	14	27-24-22-01
eClass	12	27-24-22-01
eClass	9.1	27-24-22-01
eClass	9	27-24-22-01
eClass	8	27-24-22-01
eClass	7.1	27-24-22-01
eClass	6	27-24-22-01
ETIM	10	EC001420
ETIM	9	EC001420
ETIM	8	EC001420
ETIM	7	EC001420
IDEA	4	3562
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval

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Miscellaneous

Metrological Approval

General Product Approval	EMV	For use in hazardous locations

China RoHS

FM

For use in hazardous locations	Functional Saftey

Miscellaneous

CCC-Ex

TUEV

Type Examination Certificate

Maritime application

NK / Nippon Kaiji Kyokai

Maritime application

CCS (China Classification Society)

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