SIEMENS

Product data sheet 6ES7336-1HE00-0AB0



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

Supply voltage		
Load voltage L+		
Rated value (DC)	24 V	
Reverse polarity protection	Yes	
Input current		
from backplane bus 5 V DC, max.	90 mA	
from supply voltage L+, max.	160 mA ; Typical	
Power losses		
Power loss, typ.	4.25 W	
Analog inputs		
Number of analog inputs	6	
Number of analog inputs 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		
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 to 20 mA	Yes	
Input resistance (4 to 20 mA)	107 Ω	
Cable length		
Cable length, shielded, max.	200 m	
Analog value creation		
Integration and conversion time/resolution per channel		
Resolution with overrange (bit including sign), max.	14 bit	
Integration time, ms	20 ms (at 50 Hz); 16.66 ms (at 60 Hz)	
Interference voltage suppression for interference frequency f1	38 dB	
in Hz		
Encoder		
Connection of signal encoders	Yes	
for current measurement as 2-wire transducer for current measurement as 4-wire transducer	Yes	
	165	
Errors/accuracies		
Operational limit in overall temperature range Voltage, relative to input area, (+/-)	0.48 %	
Current, relative to input area, (+/-)	0.48 %	
Basic error limit (operational limit at 25 °C)	0.40 //	
Voltage, relative to input area, (+/-)	0.4 %	
Current, relative to input area, (+/-)	0.4 %	
Interrupts/diagnostics/status information		
Alarms		
Diagnostic alarm	Yes ; Parameterizable	
Diagnostic messages		
Diagnostic functions	Yes	
Diagnostic information readable	Yes	
Diagnostics indication LED		
Fail-safe operation	Yes	
Group error SF (red)	Yes	
Monitoring 24 V voltage supply ON (green)	Yes ; Encoder supply	
Galvanic isolation		
Galvanic isolation analog inputs		

between the channels	No
between the channels and the backplane bus	Yes
between the channels and the power supply of the electronics	Yes ; only if sensors are externally supplied
Isolation	
Isolation checked with	500V DC/350V AC
Standards, approvals, certificates	
Highest safety class achievable in safety mode	
acc. to DIN V 19250	AK 6
acc. to EN 954	Cat. 4
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
Status	Sep 8, 2014