## SIEMENS

## Data sheet

## 6ES7332-5HF00-0AB0



SIMATIC S7-300, Analog output SM 332, isolated, 8 AO, U/I; diagnostics; resolution 11/12 bits, 40-pole, removing and inserting possible with active backplane bus

Figure sin	nilar
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Supply voltage	
Load voltage L+	
Rated value (DC)	24 V
Reverse polarity protection	Yes
Input current	
from load voltage L+ (without load), max.	340 mA
from backplane bus 5 V DC, max.	100 mA
Power loss	
Power loss, typ.	6 W
Analog outputs	
Number of analog outputs	8
Voltage output, short-circuit protection	Yes
Voltage output, short-circuit current, max.	25 mA
Current output, no-load voltage, max.	18 V
Output ranges, voltage	
• 0 to 10 V	Yes
• 1 V to 5 V	Yes
• -10 V to +10 V	Yes
Output ranges, current	
• 0 to 20 mA	Yes
<ul> <li>-20 mA to +20 mA</li> </ul>	Yes
• 4 mA to 20 mA	Yes
Load impedance (in rated range of output)	
<ul> <li>with voltage outputs, min.</li> </ul>	1 kΩ
<ul> <li>with voltage outputs, capacitive load, max.</li> </ul>	1 µF
<ul> <li>with current outputs, max.</li> </ul>	500 Ω
<ul> <li>with current outputs, inductive load, max.</li> </ul>	10 mH
Cable length	
• shielded, max.	200 m
Analog value generation for the outputs	
Integration and conversion time/resolution per channel	
<ul> <li>Resolution with overrange (bit including sign), max.</li> </ul>	12 bit; ±10 V, ±20 mA, 4 mA to 20 mA, 1 V to 5 V: 11 bit + sign; 0 V to 10 V, 0 mA to 20 mA: 12 bit
Conversion time (per channel)	0.8 ms
Settling time	
<ul> <li>for resistive load</li> </ul>	0.2 ms

<ul> <li>for capacitive load</li> </ul>	3.3 ms	
<ul> <li>for inductive load</li> </ul>	0.5 ms; 0.5 ms (1 mH); 3.3 ms (10 mH)	
Errors/accuracies		
Operational error limit in overall temperature range		
<ul> <li>Voltage, relative to output range, (+/-)</li> </ul>	0.5 %	
<ul> <li>Current, relative to output range, (+/-)</li> </ul>	0.6 %	
Basic error limit (operational limit at 25 °C)		
<ul> <li>Voltage, relative to output range, (+/-)</li> </ul>	0.4 %	
<ul> <li>Current, relative to output range, (+/-)</li> </ul>	0.5 %	
Interrupts/diagnostics/status information		
Diagnostics function	Yes; Parameterizable	
Alarms		
Diagnostic alarm	Yes; Parameterizable	
Diagnoses		
Diagnostic information readable	Yes	
Diagnostics indication LED		
<ul> <li>Group error SF (red)</li> </ul>	Yes	
Potential separation		
Potential separation analog outputs		
<ul> <li>between the channels</li> </ul>	No	
<ul> <li>between the channels and backplane bus</li> </ul>	Yes	
<ul> <li>Between the channels and load voltage L+</li> </ul>	Yes	
<ul> <li>between the channels and the power supply of the electronics</li> </ul>	Yes	
Isolation		
Isolation tested with	500 V DC	
Connection method		
required front connector	40-pin	
Dimensions		
Width	40 mm	
Height	125 mm	
Depth	117 mm	
Weights		
Weight, approx.	272 g	
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