## 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

| Figuresimilar |
|---------------|
|---------------|

| 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  | 6 W   |
|   | 8   |
| Number of analog outputs  | o<br>Yes  |
| Voltage output, short-circuit protection                        |   |
| Voltage output, short-circuit current, max.                     | 25 mA<br>18 V   |
| Current output, no-load voltage, max.                           |   |
| Output ranges, voltage  | Vee   |
| • 0 to 10 V   | Yes   |
| • 1 V to 5 V  |   |
| • -10 V to +10 V  | Yes   |
| Output ranges, current  | Y .   |
| • 0 to 20 mA  | Yes   |
| • -20 mA to +20 mA  | 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  |   |
| <ul> <li>shielded, max.</li> </ul>                              | 200 m   |
| Analog value generation for the outputs                         |   |
| Integration and conversion time/resolution per channel          |   |
| Resolution with overrange (bit including sign), max.            | 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 |
| <ul> <li>Conversion time (per channel)</li> </ul>               | 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)                                       |                      |
| • Voltage, relative to output range, (+/-)   | 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  |                      |
| <ul> <li>Diagnostic information readable</li> </ul>                                  | Yes                  |
| Diagnostics indication LED   |                      |
| Group error SF (red)   | Yes                  |
| Potential separation   |                      |
| Potential separation analog outputs  |                      |
| between the channels   | 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<br/>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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