SIEMENS

Data sheet

6ES7332-7ND02-0AB0



SIMATIC S7-300, Analog output SM 332, isolated by channel, 4 AI, Resolution 16 bit, 0-10 V, 1-5 V, +/-10 V, +/-20 mA, 0/4-20mA, 20-pole, suitable for isochronous mode improved bus cycle times for the isochronous mode

Figure similar

Supply voltage	
Load voltage L+	
Rated value (DC)	24 V
Reverse polarity protection	Yes
Input current	
from load voltage L+ (without load), max.	290 mA
from backplane bus 5 V DC, max.	120 mA
Power loss	
Power loss, typ.	3 W
Analog outputs	
Number of analog outputs	4; Isochronous mode
Voltage output, short-circuit protection	Yes
Voltage output, short-circuit current, max.	40 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
• -20 mA to +20 mA	Yes
• 4 mA to 20 mA	Yes
Load impedance (in rated range of output)	
with voltage outputs, min.	1 kΩ
 with voltage outputs, capacitive load, max. 	1 μF
with current outputs, max.	500 Ω
with current outputs, inductive load, max.	1 mH
Cable length	
• shielded, max.	200 m
Analog value generation for the outputs	
Integration and conversion time/resolution per channel	
 Resolution with overrange (bit including sign), max. 	16 bit
Conversion time (per channel)	200 μs; in isochronous mode 640 μs
Settling time	
for resistive load	0.2 ms
• for capacitive load	3.3 ms
for inductive load	0.5 ms
Errors/accuracies	

0.12 %
0.12 %
0.18 %
0.00.0/
0.02 %
0.02 %
Yes; Parameterizable
Yes; Parameterizable
Yes
Yes
Yes
Yes Yes
- 1 T- 1
Yes
Yes
Yes Yes
Yes Yes
Yes Yes 1 500 V DC
Yes Yes 1 500 V DC
Yes Yes 1 500 V DC 20-pin
Yes Yes 1 500 V DC 20-pin 40 mm
Yes Yes 1 500 V DC 20-pin 40 mm 125 mm

last modified: 1/17/2021 ☑