

SIEMENS

Product data sheet

6ES7332-7ND02-0AB0


SIMATIC S7, SM 332 ANALOG OUTPUT CHANNEL
TO CHANNEL ISOLATION,
4 AO, 16 BIT RESOLUTION, 0-10V, 1-5V,
+/-10V, +/-20mA, 0/4 - 20mA, 20 PIN,
FIT FOR ISOCHRONOUS MODE IMPROVED DP-CYCLE
TIME FOR ISOCHRONOUS MODE

Supply voltage	
Load voltage L+	
Rated value (DC)	24 V
Input current	
from load voltage L+ (without load), max.	290 mA
from backplane bus 5 V DC, max.	120 mA
Power losses	
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 to 5 V	Yes
-10 to +10 V	Yes
Output ranges, current	
0 to 20 mA	Yes
-20 to +20 mA	Yes
4 to 20 mA	Yes
Load impedance (in rated range of output)	
with voltage outputs, min.	1 k Ω
with voltage outputs, capacitive load, max.	1 μ F
with current outputs, max.	500 Ω
with current outputs, inductive load, max.	1 mH
Cable length	
Cable length, shielded, max.	200 m
Analog value creation	
Integrations and conversion time/ resolution per channel	
Resolution with overrange (bit including sign), max.	16 bit
Conversion time (per channel)	200 μ s ; in isochronous mode 640 μ s
Settling time	
for resistive load	0.2 ms
for capacitive load	3.3 ms
for inductive load	0.5 ms
Errors/accuracies	
Operational limit in overall temperature range	
Voltage, relative to output area	+/- 0,12 %
Current, relative to output area	+/- 0,18 %
Basic error limit (operational limit at 25 °C)	
Voltage, relative to output area	+/- 0,02 %
Current, relative to output area	+/- 0,02 %
Interrupts/diagnostics/status information	
Substitute values connectable	Yes ; Parameterizable
Alarms	
Diagnostic alarm	Yes ; Parameterizable
Diagnostic messages	

Diagnostic information readable	Yes
Diagnostics	Yes ; Diagnostic information readable
Diagnostics indication LED	
Group error SF (red)	Yes
Galvanic isolation	
Galvanic isolation analog outputs	
between the channels and the backplane bus	Yes
Isolation	
Isolation checked with	1500 V DC
Connection method	
required front connector	20-pin
Dimensions	
Width	40 mm
Height	125 mm
Depth	120 mm
Weight	
Weight, approx.	220 g
Status	Jul 17, 2012