



SIMATIC S7-300, ANALOG OUTPUT SM 332,  
OPTICALLY ISOLATED, 4 AO, U/I;  
DIAGNOSTICS;  
RESOLUTION 11/12 BITS, 20 PIN,  
REMOVE/INSERT W. ACTIVE, BACKPLANE BUS

<b>Supply voltage</b>	
<b>Load voltage L+</b>	
Rated value (DC)	24 V
<b>Input current</b>	
from load voltage L+ (without load), max.	240 mA
from backplane bus 5 V DC, max.	60 mA
<b>Power losses</b>	
Power loss, typ.	3 W
<b>Analog outputs</b>	
Number of analog outputs	4
Voltage output, short-circuit protection	Yes
Voltage output, short-circuit current, max.	25 mA
Current output, no-load voltage, max.	18 V
<b>Output ranges, voltage</b>	
0 to 10 V	Yes
1 to 5 V	Yes
-10 to +10 V	Yes
<b>Output ranges, current</b>	

0 to 20 mA	Yes
-20 to +20 mA	Yes
4 to 20 mA	Yes
<b>Load impedance (in rated range of output)</b>	
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.	10 mH
<b>Cable length</b>	
Cable length, shielded, max.	200 m
<b>Analog value creation</b>	
<b>Integrations and conversion time/ resolution per channel</b>	
Resolution with overrange (bit including sign), max.	12 bit ; +/-10 V, +/-20 mA, 4 to 20 mA, 1 to 5 V: 11 bits + sign; 0 to 10 V, 0 to 20 mA: 12 bits
Conversion time (per channel)	0.8 ms
<b>Settling time</b>	
for resistive load	0.2 ms
for capacitive load	3.3 ms
for inductive load	0.5 ms ; 0.5 ms (1 mH); 3.3 ms (10 mH)
<b>Errors/accuracies</b>	
<b>Operational limit in overall temperature range</b>	
Voltage, relative to output area	+/- 0,5 %
Current, relative to output area	+/- 0,6 %
<b>Basic error limit (operational limit at 25 °C)</b>	
Voltage, relative to output area	+/- 0,4 %
Current, relative to output area	+/- 0,5 %
<b>Interrupts/diagnostics/status information</b>	
Substitute values connectable	Yes ; Parameterizable
<b>Alarms</b>	
Diagnostic alarm	Yes ; Parameterizable
<b>Diagnostic messages</b>	
Diagnostic information readable	Yes
Diagnostics	Yes
<b>Diagnostics indication LED</b>	
Group error SF (red)	Yes
<b>Galvanic isolation</b>	
<b>Galvanic isolation analog outputs</b>	
between the channels and the backplane bus	Yes

<b>Isolation</b>	
<b>Isolation checked with</b>	500 V DC
<b>Connection method</b>	
<b>required front connector</b>	20-pin
<b>Dimensions</b>	
<b>Width</b>	40 mm
<b>Height</b>	125 mm
<b>Depth</b>	120 mm
<b>Weight</b>	
<b>Weight, approx.</b>	220 g
Status	Feb 25, 2013