



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

Supply voltage	
Load voltage L+	
Rated value (DC)	24 V
Input current	
from load voltage L+ (without load), max.	240 mA
from backplane bus 5 V DC, max.	60 mA
Power losses	
Power loss, typ.	3 W
Analog outputs	
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
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 kΩ
with voltage outputs, capacitive load, max.	1 μF
with current outputs, max.	500 Ω
with current outputs, inductive load, max.	10 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.	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
Settling time	
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)
Errors/accuracies	
Operational limit in overall temperature range	
Voltage, relative to output area	+/- 0,5 %
Current, relative to output area	+/- 0,6 %
Basic error limit (operational limit at 25 °C)	
Voltage, relative to output area	+/- 0,4 %
Current, relative to output area	+/- 0,5 %
Interrupts/diagnostics/status information	
Substitute values connectable	Yes ; Parameterizable
Alarms	
Diagnostic alarm	Yes ; Parameterizable
Diagnostic messages	
Diagnostic information readable	Yes
Diagnostics	Yes
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	500 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	Feb 25, 2013