Data sheet



SIPLUS S7-300 SM 332 4AO with conformal coating based on 6ES7332-7ND02-0AB0 . Analog output isolated by channel, 4 AI, Resolution 16 bit, 0-10 V, 1-5 V, +/-10 V, +/-20 mA, 0/4-20mA, 20pole, suitable for isochronous mode operation 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	

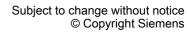
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• 1 V to 5 V	Yes
• -10 V to +10 V	Yes
Output ranges, current	
• 0 to 20 mA	Yes
• -20 mA to +20 mA	Yes
• 4 mA to 20 mA	Yes
Load impedance (in rated range of output)	
• with voltage outputs, min.	1 kΩ
 with voltage outputs, capacitive load, max. 	1 μF
• 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	40 hit
 Resolution with overrange (bit including sign), max. 	16 bit
	200 μs; in isochronous mode 640 μs
Conversion time (per channel) Sottling time	200 μs, in isocinonous mode 040 μs
Settling time	0.2 ms
• for resistive load	
for capacitive load	3.3 ms
• for inductive load	0.5 ms
Errors/accuracies	
Operational error limit in overall temperature range	
 Voltage, relative to output range, (+/-) 	0.12 %
 Current, relative to output range, (+/-) 	0.18 %
Basic error limit (operational limit at 25 °C)	
 Voltage, relative to output range, (+/-) 	0.02 %
 Current, relative to output range, (+/-) 	0.02 %
Interrupts/diagnostics/status information	
Alarms	Yes
Diagnostic alarm Diagnostics indication LED	165
	Yes
Group error SF (red)	165
Potential separation	
Potential separation analog outputs	
• between the channels	Yes
• between the channels and backplane bus	Yes
• between the channels and the power supply of	Yes
the electronics	



Isolation			
Isolation tested with	1 500 V DC		
	111111111111111111111111111111111111111		
Standards, approvals, certificates			
CE mark	Yes		
UL approval	Yes; File E239877		
RCM (formerly C-TICK)	Yes		
KC approval	Yes		
EAC (formerly Gost-R)	Yes		
Ambient conditions	Ambient conditions		
Ambient temperature during operation			
• min.	0 °C; = Tmin		
• max.	60 °C; = Tmax		
Ambient temperature during storage/transportation			
• min.	-40 °C		
• max.	70 °C		
Altitude during operation relating to sea level			
Installation altitude above sea level, max.	5 000 m		
Ambient air temperature-barometric pressure-	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) //		
altitude	Tmin (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5		
	000 m)		
Relative humidity	400 0/ PH: 1		
 With condensation, tested in accordance with IEC 60068-2-38, max. 	100 %; RH incl. condensation/frost (no commissioning under condensation conditions)		
Resistance			
Use in stationary industrial systems			
 to biologically active substances according to EN 60721-3-3 	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request		
 to chemically active substances according to EN 60721-3-3 	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *		
 to mechanically active substances according to EN 60721-3-3 	Yes; Class 3S4 incl. sand, dust, *		
Use on ships/at sea			
 to biologically active substances according to EN 60721-3-6 	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request		
 to chemically active substances according to EN 60721-3-6 	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *		
 to mechanically active substances according to EN 60721-3-6 	Yes; Class 6S3 incl. sand, dust; *		
Usage in industrial process technology			
 Against chemically active substances acc. to EN 60654-4 	Yes; Class 3 (excluding trichlorethylene)		





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— Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04

Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)

Remark

- Note regarding classification of environmental conditions acc. to EN 60721,

* The supplied plug covers must remain in place over the unused interfaces during operation!

EN 60654-4 and ANSI/ISA-71.04	
Connection method	
required front connector	20-pin
Dimensions	
Width	40 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	220 g

10/13/2020 last modified:

