



Figure similar

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

General information	
Product function	
• Isochronous mode	Yes
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
Connection of actuators	
• for voltage output four-wire connection	Yes
• for current output two-wire connection	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		
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		
Diagnostics function	Yes; Parameterizable	
Substitute values connectable	Yes; Parameterizable	
Alarms		
• Diagnostic alarm	Yes; Parameterizable	
Diagnoses		
• Diagnostic information readable	Yes	
Diagnostics indication LED		
• Group error SF (red)	Yes	
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 the electronics	Yes	
Isolation		
Isolation tested with	1 500 V DC	
Connection method		
required front connector	20-pin	
Dimensions		
Width	40 mm	
Height	125 mm	
Depth	117 mm	
Weights		
Weight, approx.	220 g	
Classifications		
	Version	Classification
eClass	14	27-24-22-01
eClass	12	27-24-22-01
eClass	9.1	27-24-22-01
eClass	9	27-24-22-01
eClass	8	27-24-22-01
eClass	7.1	27-24-22-01
eClass	6	27-24-22-01
ETIM	10	EC001420
ETIM	9	EC001420
ETIM	8	EC001420
ETIM	7	EC001420
IDEA	4	3562
UNSPSC	15	32-15-17-05
Approvals / Certificates		
General Product Approval		

[Miscellaneous](#)

[Manufacturer Declaration](#)



[Metrological Approval](#)

General Product Approval

EMV



[China RoHS](#)

[Manufacturer Declaration](#)



EMV

For use in hazardous locations



[FM](#)



[Miscellaneous](#)

For use in hazardous locations

Maritime application

[CCC-Ex](#)



[NK / Nippon Kaiji Kyokai](#)

Maritime application



[CCS \(China Classification Society\)](#)

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