



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	16	27-24-22-01
	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
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[China RoHS](#)

[Manufacturer Declaration](#)



EMV	For use in hazardous locations
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[FM](#)



[Miscellaneous](#)

For use in hazardous locations	Maritime application
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[CCC-Ex](#)



[NK / Nippon Kaiji Kyokai](#)

Maritime application



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

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