



Figure similar

spare part SIMATIC S7-300, analog output SM 332, isolated, 8 AO, U/I; diagnostics; resolution 11/12 bits, 40-pole, removing and inserting with active backplane bus possible

General information	
Product function	
<ul style="list-style-type: none"> • Isochronous mode 	No
Supply voltage	
Load voltage L+	
<ul style="list-style-type: none"> • Rated value (DC) 	24 V
<ul style="list-style-type: none"> • Reverse polarity protection 	Yes
Input current	
from load voltage L+ (without load), max.	340 mA
from backplane bus 5 V DC, max.	100 mA
Power loss	
Power loss, typ.	6 W
Analog outputs	
Number of analog outputs	8
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	
<ul style="list-style-type: none"> • 0 to 10 V 	Yes
<ul style="list-style-type: none"> • 1 V to 5 V 	Yes
<ul style="list-style-type: none"> • -10 V to +10 V 	Yes
Output ranges, current	
<ul style="list-style-type: none"> • 0 to 20 mA 	Yes
<ul style="list-style-type: none"> • -20 mA to +20 mA 	Yes
<ul style="list-style-type: none"> • 4 mA to 20 mA 	Yes
Connection of actuators	
<ul style="list-style-type: none"> • for voltage output four-wire connection 	Yes
<ul style="list-style-type: none"> • for current output two-wire connection 	Yes
Load impedance (in rated range of output)	
<ul style="list-style-type: none"> • with voltage outputs, min. 	1 kΩ
<ul style="list-style-type: none"> • with voltage outputs, capacitive load, max. 	1 μF
<ul style="list-style-type: none"> • with current outputs, max. 	500 Ω
<ul style="list-style-type: none"> • with current outputs, inductive load, max. 	10 mH
Cable length	
<ul style="list-style-type: none"> • shielded, max. 	200 m
Analog value generation for the outputs	
Integration and conversion time/resolution per channel	
<ul style="list-style-type: none"> • Resolution with overrange (bit including sign), max. 	12 bit; ±10 V, ±20 mA, 4 mA to 20 mA, 1 V to 5 V: 11 bit + sign; 0 V to 10 V, 0

• Conversion time (per channel)	mA to 20 mA: 12 bit 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 error limit in overall temperature range		
• Voltage, relative to output range, (+/-)	0.5 %	
• Current, relative to output range, (+/-)	0.6 %	
Basic error limit (operational limit at 25 °C)		
• Voltage, relative to output range, (+/-)	0.4 %	
• Current, relative to output range, (+/-)	0.5 %	
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	No	
• between the channels and backplane bus	Yes	
• Between the channels and load voltage L+	Yes	
• between the channels and the power supply of the electronics	Yes	
Isolation		
Isolation tested with	500 V DC	
Connection method		
required front connector	40-pin	
Dimensions		
Width	40 mm	
Height	125 mm	
Depth	117 mm	
Weights		
Weight, approx.	272 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	EMV	



[Manufacturer Declaration](#)

[China RoHS](#)



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