



Figure similar

SIMATIC DP, Electronic modules for ET 200 PRO 4 AO U High Feature, ± 10 V; 0...10V; 1...5V, Channel diagnostics; incl. bus module, Connection module IO 6ES7194-4..00-0AA0 order separately

Supply voltage

Rated value (DC)	24 V
Reverse polarity protection	Yes; against destruction

Input current

from supply voltage 1L+, max.	65 mA
from backplane bus 3.3 V DC, max.	10 mA

Actuator supply

Number of outputs	4
Short-circuit protection	Yes; per module
Output current	
• up to 55 °C, max.	1 A

Power loss

Power loss, typ.	1.7 W
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Address area

Address space per module	
• Address space per module, max.	8 byte

Analog outputs

Number of analog outputs	4
Voltage output, short-circuit protection	Yes; per channel, electronic to chassis
Voltage output, short-circuit current, max.	50 mA
Cycle time (all channels) max.	3 ms

Output ranges, voltage

• 0 to 10 V	Yes
• 1 V to 5 V	Yes
• -10 V to +10 V	Yes

Connection of actuators

• for voltage output two-wire connection	Yes
• for voltage output four-wire connection	Yes

Load impedance (in rated range of output)

• with voltage outputs, min.	1 000 Ω
• with voltage outputs, capacitive load, max.	1 μ F

Destruction limits against externally applied voltages and currents

• Voltages at the outputs towards MANA	16 V; Permanent
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Cable length

• shielded, max.	30 m
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Analog value generation for the outputs

Integration and conversion time/resolution per channel	
• Resolution with overrange (bit including sign), max.	15 bit; at -10 to +10 V; 14 bit at 1 to 5 V; 15 bit at 0 to 10 V

• Conversion time (per channel)	0.7 ms		
Settling time			
• for resistive load	0.1 ms		
• for capacitive load	6 ms		
Errors/accuracies			
Output ripple (relative to output range, bandwidth 0 to 50 kHz), (+/-)	0.02 %		
Linearity error (relative to output range), (+/-)	0.1 %		
Temperature error (relative to output range), (+/-)	0.01 %/K		
Repeat accuracy in steady state at 25 °C (relative to output range), (+/-)	0.05 %		
Operational error limit in overall temperature range			
• Voltage, relative to output range, (+/-)	0.2 %		
Basic error limit (operational limit at 25 °C)			
• Voltage, relative to output range, (+/-)	0.15 %		
Interrupts/diagnostics/status information			
Substitute values connectable	Yes		
Alarms			
• Diagnostic alarm	Yes; Parameterizable		
• Hardware interrupt	No		
Diagnoses			
• Diagnostic information readable	Yes		
• Wire-break	No		
• Short-circuit	Yes; per channel, not in zero range		
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		
Isolation			
Isolation tested with	707 V DC (type test)		
Dimensions			
Width	45 mm		
Height	130 mm		
Depth	35 mm		
Weights			
Weight, approx.	150 g		
Classifications			
		Version	Classification
	eClass	14	27-24-26-01
	eClass	12	27-24-26-01
	eClass	9.1	27-24-26-01
	eClass	9	27-24-26-01
	eClass	8	27-24-26-01
	eClass	7.1	27-24-26-01
	eClass	6	27-24-26-01
	ETIM	10	EC001596
	ETIM	9	EC001596
	ETIM	8	EC001596
	ETIM	7	EC001596
	IDEA	4	3562
	UNSPSC	15	32-15-17-05
	Approvals / Certificates		
General Product Approval			

[Miscellaneous](#)

[Manufacturer Declaration](#)



[China RoHS](#)



General Product Approval

Maritime application

[Metrological Approval](#)



[KC](#)



Maritime application



[NK / Nippon Kaiji Kyokai](#)



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



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