



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	
<ul style="list-style-type: none"> up to 55 °C, max. 	1 A
Power loss	
Power loss, typ.	1.7 W
Address area	
Address space per module	<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> 0 to 10 V 1 V to 5 V -10 V to +10 V 	<ul style="list-style-type: none"> Yes Yes Yes
Connection of actuators	
<ul style="list-style-type: none"> for voltage output two-wire connection for voltage output four-wire connection 	<ul style="list-style-type: none"> Yes Yes
Load impedance (in rated range of output)	
<ul style="list-style-type: none"> with voltage outputs, min. with voltage outputs, capacitive load, max. 	<ul style="list-style-type: none"> 1 000 Ω 1 μF
Destruction limits against externally applied voltages and currents	
<ul style="list-style-type: none"> Voltages at the outputs towards MANA 	16 V; Permanent
Cable length	
<ul style="list-style-type: none"> shielded, max. 	30 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. 	15 bit; at -10 to +10 V; 14 bit at 1 to 5 V; 15 bit at 0 to 10 V

<ul style="list-style-type: none"> • Conversion time (per channel) 	0.7 ms
Settling time	
<ul style="list-style-type: none"> • for resistive load • for capacitive load 	0.1 ms 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	
<ul style="list-style-type: none"> • Voltage, relative to output range, (+/-) 	0.2 %
Basic error limit (operational limit at 25 °C)	
<ul style="list-style-type: none"> • Voltage, relative to output range, (+/-) 	0.15 %
Interrupts/diagnostics/status information	
Substitute values connectable	Yes
Alarms	
<ul style="list-style-type: none"> • Diagnostic alarm • Hardware interrupt 	Yes; Parameterizable No
Diagnoses	
<ul style="list-style-type: none"> • Diagnostic information readable • Wire-break • Short-circuit 	Yes No Yes; per channel, not in zero range
Diagnostics indication LED	
<ul style="list-style-type: none"> • Group error SF (red) 	Yes
Potential separation	
Potential separation analog outputs	
<ul style="list-style-type: none"> • between the channels • between the channels and backplane bus 	No 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
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