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Data sheet 6ES7135-4LB02-0AB0

SIMATIC DP, Electronics module 2 AO U High Feature for ET 200S, 15 mm width, Cycle time per module: 0.5 ms, +/-10V; 15 bit+sign, 1..5V; 15 bit, Operational limit +/-0.07% with SF LED (group fault)



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.	80 mA
from backplane bus 3.3 V DC, max.	10 mA
Power loss	
Power loss, max.	1.2 W
Address area	
Address space per module	
• Address space per module, max.	4 byte
Analog outputs	
Number of analog outputs	2

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Voltage output, short-circuit protection	Yes
Voltage output, short-circuit current, max.	25 mA
Cycle time (all channels) max.	0.5 ms; At max. 0.5 µF
Output ranges, voltage	
• 1 V to 5 V	Yes
• -5 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 kΩ
• with voltage outputs, capacitive load, max.	0.5 µF
Destruction limits against externally applied voltages and currents	
• Voltages at the outputs towards MANA	15 V; max. 15 V continuous; 75 V for max. 1 s (mark to space ratio 1:20)
Cable length	
• shielded, max.	200 m; 100 m if Twa < 2 ms

Analog value generation for the outputs	
Integration and conversion time/resolution per channel	
• Resolution with overrange (bit including sign), max.	16 bit; 15 bit + sign
Settling time	
• for resistive load	0.2 ms
• for capacitive load	0.5 ms; At max. 0.5 µF
• for inductive load	0.5 ms

Errors/accuracies	
Operational error limit in overall temperature range	
• Voltage, relative to output range, (+/-)	0.1 %
Basic error limit (operational limit at 25 °C)	
• Voltage, relative to output range, (+/-)	0.05 %

Interrupts/diagnostics/status information	
Diagnoses	
• Diagnostic information readable	Yes
• Short-circuit	Yes
• Group error	Yes
Diagnostics indication LED	
• Group error SF (red)	Yes

Parameter	
Remark	7 byte
Diagnostics short-circuit	Disable / enable

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Output type/range	deactivated / 1 to 5 V / ±10 V / ±5 V
Group diagnostics	Disable / enable
Response to CPU/master STOP	Output current and de-energized/substitute a value/keep last value

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

Isolation	
Isolation tested with	500 V DC

Dimensions	
Width	15 mm
Height	81 mm
Depth	52 mm

Weights	
Weight, approx.	40 g

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