



SIMATIC DP, Electronics module f. ET200S, 2 AO U, 15 mm width, +/-10V; 13 bit+sign, 1..5 V; 12 bit, Cycle time less than 1 ms with SF LED (group fault)

General information

Product function

- Isochronous mode No

Supply voltage

Load voltage L+

- Rated value (DC) 24 V; From power module
- Reverse polarity protection Yes

Input current

- from load voltage L+ (without load), max. 130 mA
- from backplane bus 3.3 V DC, max. 10 mA

Power loss

- Power loss, max. 2 W

Address area

Address space per module

- Address space per module, max. 4 byte

Analog outputs

- Number of analog outputs 2
- Voltage output, short-circuit protection Yes
- Voltage output, short-circuit current, max. 25 mA
- Cycle time (all channels) max. 1.5 ms

Output ranges, voltage

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

Connection of actuators

- for voltage output two-wire connection Yes; Without compensation of the line resistances
- 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. 1 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)
- Current, max. 50 mA; DC

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. 14 bit; 1 to 5 V: 12 bit, ±10 V: 13 bit + sign

Settling time

- for resistive load 0.1 ms
- for capacitive load 0.5 ms

• for inductive load	0.5 ms
Errors/accuracies	
Operational error limit in overall temperature range	
• Voltage, relative to output range, (+/-)	0.4 %
Basic error limit (operational limit at 25 °C)	
• Voltage, relative to output range, (+/-)	0.2 %
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
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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