SIEMENS

Data sheet

6ES7135-4FB52-0AB0



SIMATIC DP, Electronics module for ET 200S, 2 AO U High Speed, 15 mm width, +/-10 V, +/-5 V, 1.. 5V; 16 bit, Cycle time: 0.1ms with SF LED (group fault)

General information		
Product function		
Isochronous mode	Yes	
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, typ.	2.2 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.	0.25 ms	
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; 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; 0.1 μF for Twa=0.1 ms	
Destruction limits against externally applied voltages and c		
 Voltages at the outputs towards MANA 	15 V; Max. 15 V for max. 5 hours, 75 V for max. 1 s	
• Current, max.	30 mA; DC	
Cable length	000 14 00 6 7144 400	
• shielded, max.	200 m; Max. 20 m for TWA 100 μs	
Analog value generation for the outputs		
Integration and conversion time/resolution per channel		

• Resolution with overrange (bit including sign), max.	16 bit; 1 to 5 V: 14 bit, ±10 V: 15 bit + sign, ±5 V: 14 bit + sign	
Settling time		
for resistive load	0.05 ms	
 for capacitive load 	0.05 ms	
 for inductive load 	0.05 ms	
Errors/accuracies		
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, (+/-) 	0.01 %	
Interrupts/diagnostics/status information		
Diagnoses		
 Diagnostic information readable 	Yes	
Wire-break	No	
 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	
last modified:	1/16/2021 🗗	