Data sheet

6ES7135-6GB00-0BA1



SIMATIC ET 200SP, Analog output module, AQ 2xI Standard, Pack quantity: 1 unit, suitable for BU type A0, A1, Color code CC00, Module diagnostics, 16 bit

General information		
Product type designation	AQ 2xl ST	
HW functional status	From FS03	
Firmware version		
FW update possible	Yes	
usable BaseUnits	BU type A0, A1	
Color code for module-specific color identification plate	CC00	
Product function		
I&M data	Yes; I&M0 to I&M3	
 Isochronous mode 	No	
Output range scalable	No	
Engineering with		
 STEP 7 TIA Portal configurable/integrated from version 	V13 SP1 / -	
 STEP 7 configurable/integrated from version 	V5.5 SP3 / -	
 PROFIBUS from GSD version/GSD revision 	GSD Revision 5	
PROFINET from GSD version/GSD revision	GSDML V2.3	
Operating mode		
Oversampling	No	
• MSO	No	
CiR - Configuration in RUN		
Reparameterization possible in RUN	Yes	
Calibration possible in RUN	No	
Supply voltage		
Rated value (DC)	24 V	
permissible range, lower limit (DC)	19.2 V	
permissible range, upper limit (DC)	28.8 V	
Reverse polarity protection	Yes	
Input current		
Current consumption, max.	110 mA	
Power loss		
Power loss, typ.	1.5 W	
Address area		
Address space per module		
 Address space per module, max. 	4 byte; + 1 byte for QI information	
Hardware configuration		
Automatic encoding		
 Mechanical coding element 	Yes	
 Type of mechanical coding element 	Type A	

Analog outputs		
Number of analog outputs	2	
Cycle time (all channels), min.	1 ms	
Analog output with oversampling	No	
Output ranges, current		
• 0 to 20 mA	Yes; 15 bit	
• -20 mA to +20 mA	Yes; 16 bit incl. sign	
• 4 mA to 20 mA	Yes; 14 bit	
Connection of actuators	103, 14 bit	
for current output two-wire connection	Yes	
Load impedance (in rated range of output)	103	
with current outputs, max.	500 Ω	
with current outputs, max. with current outputs, inductive load, max.	1 mH	
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Destruction limits against externally applied voltages and currents • Voltages at the outputs 30 V		
Voltages at the outputs Cable length	30 V	
•	1 000 m	
• shielded, max.	1 000 111	
Analog value generation for the outputs		
Integration and conversion time/resolution per channel		
Resolution with overrange (bit including sign), max.	16 bit	
Settling time		
 for resistive load 	0.1 ms; Typical value	
for inductive load	0.5 ms	
Errors/accuracies		
Linearity error (relative to output range), (+/-)	0.03 %	
Temperature error (relative to output range), (+/-)	0.005 %/K	
Crosstalk between the outputs, min.	-50 dB	
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, (+/-)	0.5 %	
Current, relative to output range, (+/-)	0.5 %	
Basic error limit (operational limit at 25 °C)		
Voltage, relative to output range, (+/-)	0.3 %	
 Current, relative to output range, (+/-) 	0.3 %	
Interrupts/diagnostics/status information		
Diagnostics function	Yes	
Substitute values connectable	Yes	
Alarms	103	
Diagnostic alarm	Yes	
Diagnoses	100	
Monitoring the supply voltage	Yes	
Wire-break	Yes	
	Yes	
Group error Overflow/underflow		
	Yes	
Diagnostics indication LED	Vest erees DMD LED	
Monitoring of the supply voltage (PWR-LED)	Yes; green PWR LED	
Channel status display	Yes; green LED	
• for channel diagnostics	No	
for module diagnostics	Yes; green/red DIAG LED	
Potential separation		
Potential separation channels		
between the channels	No	
 between the channels and backplane bus 	Yes	
 between the channels and the power supply of the electronics 	Yes	
Isolation		
Isolation tested with	707 V DC (type test)	
Ambient conditions		
Ambient temperature during operation		

 horizontal installation, min. 	-30 °C; < 0 °C as of FS03
 horizontal installation, max. 	60 °C
 vertical installation, min. 	-30 °C; < 0 °C as of FS03
 vertical installation, max. 	50 °C
Altitude during operation relating to sea level	
 Installation altitude above sea level, max. 	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual
Dimensions	
Width	15 mm
Height	73 mm
Depth	58 mm
Weights	
Weight, approx.	31 g

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