SIEMENS

Data sheet

6AG1135-6GB00-7BA1



SIPLUS ET 200SP AQ 2xl standard, based on 6ES7135-6GB00-0BA1 with conformal coating, -40...+70 °C, analog output module, suitable for BU type A0, A1, color code CC00, module diagnostics, 16 bit

Figure similar

General information	
Product type designation	AQ 2xI ST
Firmware version	
FW update possible	Yes
based on	6ES7135-6GB00-0BA1
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	see entry ID: 109746275
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
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	
Connection of actuators	Yes
for current output two-wire connection Load impedance (in rated range of output)	165
Load impedance (in rated range of output)	F00 O
with current outputs, max.	500 Ω
with current outputs, inductive load, max.	1 mH
Destruction limits against externally applied voltages and currents	
Voltages at the outputs	30 V
Cable length	
• shielded, max.	1 000 m
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), (+/-)	0.06 %
Temperature error (relative to output range), (+/-)	0.01 %/K
Crosstalk between the outputs, min.	-50 dB
Repeat accuracy in steady state at 25 °C (relative to output	0.05 %
range), (+/-)	
Operational error limit in overall temperature range	
• Current, relative to output range, (+/-)	1 %
Basic error limit (operational limit at 25 °C)	
 Current, relative to output range, (+/-) 	0.3 %
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Substitute values connectable	Yes
Alarms	
Diagnostic alarm	Yes
Diagnoses	
Monitoring the supply voltage	Yes
Wire-break	Yes
Group error	Yes
Overflow/underflow	Yes
	165
Diagnostics indication LED	Vac areas DMD LED
Monitoring of the supply voltage (PWR-LED) Channel status display:	Yes; green PWR LED
Channel status display	Yes; green LED
for channel diagnostics	No 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
Ambient conditions	
Ambient temperature during operation	
 horizontal installation, min. 	-40 °C; = Tmin (incl. condensation/frost)
 horizontal installation, max. 	70 °C; = Tmax
Altitude during operation relating to sea level	
Installation altitude above sea level, max.	5 000 m
Ambient air temperature-barometric pressure-altitude	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m)
Relative humidity	
With condensation, tested in accordance with IEC 60068- 2-38, max.	100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation
Resistance	
Coolants and lubricants	
Resistant to commercially available coolants and	Yes; Incl. diesel and oil droplets in the air

Use in stationary industrial systems - to biologically active substances according to EN Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); 60721-3-3 Class 3B3 on request - to chemically active substances according to EN Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * - to mechanically active substances according to EN Yes; Class 3S4 incl. sand, dust, * - Against mechanical environmental conditions acc. Yes; Class 3M8 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00to EN 60721-3-3 Use on ships/at sea - to biologically active substances according to EN Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on 60721-3-6 - to chemically active substances according to EN Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity 60721-3-6 dearee 3): - to mechanically active substances according to EN Yes; Class 6S3 incl. sand, dust; * 60721-3-6 Yes; Class 6M4 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00-- Against mechanical environmental conditions acc. to EN 60721-3-6 0AA0) Usage in industrial process technology - Against chemically active substances acc. to EN Yes; Class 3 (excluding trichlorethylene) 60654-4 — Environmental conditions for process, measuring Yes; Level GX group A/B (excluding trichlorethylene; harmful gas and control systems acc. to ANSI/ISA-71.04 concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil) Note regarding classification of environmental * The supplied plug covers must remain in place over the unused interfaces conditions acc. to EN 60721, EN 60654-4 and during operation! ANSI/ISA-71.04 Conformal coating • Coatings for printed circuit board assemblies acc. to EN Yes; Class 2 for high reliability 61086 • Protection against fouling acc. to EN 60664-3 Yes; Type 1 protection • Military testing according to MIL-I-46058C, Amendment 7 Yes; Discoloration of coating possible during service life • Qualification and Performance of Electrical Insulating Yes; Conformal coating, Class A Compound for Printed Board Assemblies according to IPC-CC-830A Width 15 mm Height 73 mm Depth 58 mm Weights Weight, approx 31 g Classification Version eClass 14 27-24-26-01 eClass 12 27-24-26-01 9.1 27-24-26-01 eClass 27-24-26-01 eClass 9 eClass 8 27-24-26-01 27-24-26-01 eClass 7.1 eClass 6 27-24-26-01 FTIM 9 FC001596 **ETIM** 8 EC001596

Approvals / Certificates

General Product Approval EMV

Miscellaneous

Manufacturer Declaration





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For use in hazardous locations

Marine / Shipping





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