SIEMENS

Data sheet

6AG1132-6BH01-7BA0

SIPLUS ET 200SP, digital output module, DQ 16x 24VDC/0.5A ST - 40...+70 °C with conformal coating based on 6ES7132-6BH01-0BA0 . suitable for BU type A0, Color code CC00, Module diagnostics



General information	
Product type designation	DQ 16x24VDC/0.5A ST
Firmware version	
• FW update possible	No
usable BaseUnits	BU type A0
Color code for module-specific color identification	CC00
plate	
Product function	
● I&M data	Yes; I&M0 to I&M3
Operating mode	
• DQ	Yes
 DQ with energy-saving function 	No
• PWM	No
Oversampling	No
• MSO	No
Redundancy	
 Redundancy capability 	Yes
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.	60 mA; without load
Output voltage	
Rated value (DC)	24 V
Power loss	
Power loss, typ.	1 W
Address area	
Address space per module	+ 2 hytes for OL information
Inputs	+ 2 bytes for QI information
Outputs	2 byte
Hardware configuration	
Automatic encoding	Yes
 Mechanical coding element 	Yes
Selection of BaseUnit for connection variants	
• 1-wire connection	BU type A0
• 2-wire connection	BU type A0 + Potential isolation module
3-wire connection	BU type A0 + Potential isolation module
• 4-wire connection	BU type A0 + Potential isolation module
Digital outputs	
Type of digital output	Source output (PNP, current-sourcing)
Number of digital outputs	16
Current-sinking	No
Current-sourcing	Yes
Short-circuit protection	Yes 1 A
Response threshold, typ.	
Open-circuit detection	Yes
Limitation of inductive shutdown voltage to	Typ. L+ (-50 V)
Controlling a digital input	Yes
Switching capacity of the outputs	0.5.4
• with resistive load, max.	0.5 A
• on lamp load, max.	5 W
Load resistance range	
lower limit	48 Ω
• upper limit	12 kΩ
Output current	
 for signal "1" rated value 	0.5 A

• for signal "0" residual current, max. 0.1 mA Output delay with resistive load 50 μs • "0" to "1", typ. 50 μs • "1" to "0", typ. 100 μs Parallel switching of two outputs • • for uprating No • for redundant control of a load Yes Switching frequency •	
• "0" to "1", typ.50 μs• "1" to "0", typ.100 μsParallel switching of two outputs• for upratingNo• for redundant control of a loadYes	
• "1" to "0", typ. 100 μs Parallel switching of two outputs • for uprating • for redundant control of a load No Yes Yes	
Parallel switching of two outputs • for uprating • for redundant control of a load Yes	
for uprating for redundant control of a load Yes	
• for redundant control of a load Yes	
Switching frequency	
• with resistive load, max. 100 Hz	
• with inductive load, max. 2 Hz	
• on lamp load, max. 10 Hz	
Total current of the outputs	
Current per channel, max. 0.5 A	
Current per module, max.	
Total current of the outputs (per module)	
horizontal installation	
— up to 30 °C, max. 8 A	
— up to 40 °C, max. 8 A	
— up to 50 °C, max. 6 A	
— up to 60 °C, max. 4 A	
vertical installation	
— up to 30 °C, max. 8 A; in all other mounting positions	
— up to 40 °C, max. 6 A; in all other mounting positions	
— up to 50 °C, max. 4 A; in all other mounting positions	
Cable length	
• shielded, max. 1 000 m	
• unshielded, max. 600 m	
Isochronous mode	
Isochronous operation (application synchronized up No to terminal)	
Interrupts/diagnostics/status information	
Diagnostics function Yes	
Substitute values connectable Yes	
Alarms	
Diagnostic alarm Yes	
Diagnostic messages	
Monitoring the supply voltage Yes	
Wire-break Yes; Module-wise	
Short-circuit to M Yes; Module-wise	
Short-circuit to L+ Yes; Module-wise	
Diagnostics indication 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	
Isolation		
Isolation tested with	707 V DC (type test)	
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Standards, approvals, certificates Suitable for safety-related tripping of standard	Yes	
modules		
Ambient conditions		
Ambient conditions Ambient temperature during operation		
horizontal installation, min.	-40 °C; = Tmin	
 horizontal installation, max. 	70 °C; = Tmax; see Derating BasedOn (e.g. manual), additionally	
	Tmax > 60 °C max. total current 1 A	
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 %; incl. condensation / frost permitted (no commissioning under condensation conditions)	
Resistance		
Coolants and lubricants		
 Resistant to commercially available coolants and lubricants 	Yes; Incl. diesel and oil droplets in the air	
Use in stationary industrial systems		
 — to biologically active substances according to EN 60721-3-3 	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request	
 — to chemically active substances according to EN 60721-3-3 	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2- 52 (severity degree 3); *	
 — to mechanically active substances according to EN 60721-3-3 	Yes; Class 3S4 incl. sand, dust, *	
Use on ships/at sea		
 — to biologically active substances according to EN 60721-3-6 	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request	

— to chemically active substances according	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-
to EN 60721-3-6	52 (severity degree 3); *
 — to mechanically active substances 	Yes; Class 6S3 incl. sand, dust; *
according to EN 60721-3-6	
Remark	
 — Note regarding classification of 	* The supplied plug covers must remain in place over the unused
environmental conditions acc. to EN 60721	interfaces during operation!
Conformal coating	
 Coatings for printed circuit board assemblies 	Yes; Class 2 for high availability
acc. to EN 61086	
 Military testing according to MIL-I-46058C, 	Yes; Discoloration of coating possible during service life
Amendment 7	
 Qualification and Performance of Electrical 	Yes; Conformal coating, Class A
Insulating Compound for Printed Board	
Assemblies according to IPC-CC-830A	
Dimensions	
Width	15 mm
Height	73 mm
Depth	58 mm
Weights	
Weight, approx.	30 g
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