6AG1132-6BH01-7BA0

Data sheet



SIPLUS ET 200SP DQ 16x24VDC/0,5A ST based on 6ES7132-6BH01-0BA0 with conformal coating, -40...+70 $^{\circ}$ C, digital output module, 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 plate	CC00	
Product function		
● I&M data	Yes; I&M0 to I&M3	
• Isochronous mode	No	
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 / header		
Rated value (DC)	24 V	
Power loss		
Power loss, typ.	1 W	
Address area		
Address space per module		
• 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 distributor module	
3-wire connection	BU type A0 + Potential distributor module	
• 4-wire connection	BU type A0 + Potential distributor module	

Digital outputs	
Type of digital output	Source output (PNP, current-sourcing)
Number of digital outputs	16
Current-sinking	No
Current-sourcing	Yes
<u> </u>	Yes
Digital outputs, parameterizable Short-circuit protection	Yes
·	1 A
Response threshold, typ. One principle detection.	Yes
Open-circuit detection	
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	40.0
• 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	
• "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	
 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.	8 A
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
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Substitute values connectable	Yes
Alarms	
	Yes
Diagnostic alarm	
Diagnostic alarm Diagnoses	
 Diagnostic alarm Diagnoses Monitoring the supply voltage 	Yes
 Diagnostic alarm Diagnoses Monitoring the supply voltage Wire-break 	Yes Yes; Module-wise
Diagnostic alarm Diagnoses Monitoring the supply voltage Wire-break Short-circuit to M	Yes Yes; Module-wise Yes; Module-wise
Diagnostic alarm Diagnoses Monitoring the supply voltage Wire-break Short-circuit to M Short-circuit to L+	Yes Yes; Module-wise
Diagnostic alarm Diagnoses Monitoring the supply voltage Wire-break Short-circuit to M Short-circuit to L+ Diagnostics indication LED	Yes Yes; Module-wise Yes; Module-wise Yes; Module-wise
Diagnostic alarm Diagnoses Monitoring the supply voltage Wire-break Short-circuit to M Short-circuit to L+ Diagnostics indication LED Monitoring of the supply voltage (PWR-LED)	Yes; Module-wise Yes; Module-wise Yes; Module-wise Yes; green PWR LED
Diagnostic alarm Diagnoses Monitoring the supply voltage Wire-break Short-circuit to M Short-circuit to L+ Diagnostics indication LED Monitoring of the supply voltage (PWR-LED) Channel status display	Yes Yes; Module-wise Yes; Module-wise Yes; Module-wise Yes; green PWR LED Yes; green LED
Diagnostic alarm Diagnoses Monitoring the supply voltage Wire-break Short-circuit to M Short-circuit to L+ Diagnostics indication LED Monitoring of the supply voltage (PWR-LED)	Yes; Module-wise Yes; Module-wise Yes; Module-wise Yes; green PWR LED

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- Against mechanical environmental conditions acc. to EN 60721-3-3 Use on ships/at sea - to biologically active substances according to EN 60721-3-6 - to chemically active substances according to EN 60721-3-6 - to mechanical environmental conditions acc. to EN 60721-3-6 - Against mechanical environmental conditions acc. to EN 60721-3-6 - Against mechanical environmental conditions acc. to EN 60721-3-6 - Against hemically active substances acc. to EN 60654-4 - Environmental conditions for process, measuring and control systems acc. to EN ANSI/ISA-71.04 - Remark - Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 - Conformal coating • Coatings for printed circuit board assemblies acc. to EN 61086 • Protection against fouling acc. to EN 60664-3 • Military testing according to MIL-1-46058C, Amendment 7 • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-930A Width - Kes; Class 3M8 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00-194 degree 3); Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request Yes; Class 6S3 incl. sand, dust; Yes; Class 6S3 incl.		
Use on ship3rd sea		Yes; Class 3S4 incl. sand, dust, *
- to biologically active substances according to EN 60721-3-6 - to chemically active substances according to EN 60721-3-6 - to mechanically active substances according to EN 60721-3-6 - Against mechanical environmental conditions acc. to EN 60721-3-6 - Against themically active substances acc. to EN 60721-3-6 - Against themically active substances acc. to EN 60654-4 - Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 - Note regarding classification of environmental conditions acc. to EN 60721, EN 60721, EN 60721, EN 60654-4 and ANSI/ISA-71.04 - Conformal coating • Coatings for printed circuit board assemblies acc. to EN 61086 • Protection against fouling acc. to EN 60664-3 • Military testing according to MIL-1-46058C, Amendment 7 • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A Width - To biologically active substances acc. dender of En 60721-3-6 - Yes; Class 6B3 mold and fungal spores (excluding fauna); Class 6B3 on request - Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * - Yes; Class 6B3 incl. sand, dust; * - Yes; Class 6M4 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00-0AA0) - Yes; Class 3 (excluding trichlorethylene) - Yes; Class 3 (excluding trichlorethylene) - Yes; Class 3 (excluding trichlorethylene) - Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil) - Yes; Class 2 for high reliability - Yes; Class 3 (excluding trichlorethylene) - Yes; Class 2 for high reliability - Yes; Class 2 for high reliability - Yes; Class 3 (excluding trichlorethylene) - Yes; Class 2 for high reliability - Yes; Class 2 for high reliability - Yes; Class 3 (excluding trichlorethylene) - Yes; Class 2 for high relia		
equest - to chemically active substances according to EN 60721-3-6 - to mechanically active substances according to EN 60721-3-6 - Against mechanical environmental conditions acc. to EN 60721-3-6 - Against chemically active substances acc. to EN 60654-4 - Environmental conditions for process, measuring and control systems acc. to EN 60721, 204 Remark - Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 Conformal coating • Coatings for printed circuit board assemblies acc. to EN 60664-3 • Military testing according to MIL-I-46058C, Amendment 7 • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A Width request Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 6C3 incl. sand, dust; * Yes; Class 6M4 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00-0AA0) Yes; Class 6W3 incl. sand, dust; * Yes; Class 6M4 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00-0AA0) Yes; Class 6W3 incl. sand, dust; * Yes; Class 9W4 (excluding trichlorethylene) for EN 60721-3-3 class 3C4 permissib	'	
degree 3); * - to mechanically active substances according to EN 60721-3-6 Against mechanical environmental conditions acc. to EN 60721-3-6 Usage in industrial process technology Against chemically active substances acc. to EN 60654-4 Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 Remark Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 Conformal coating Coatings for printed circuit board assemblies acc. to EN 61086 Protection against fouling acc. to EN 60664-3 Military testing according to MIL-1-46058C, Amendment 7 Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC- CC-830A Width degree 3); * Yes; Class 6S3 incl. sand, dust; * Yes; Class 6M4 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00-0AA0) Yes; Class 3 (excluding trichlorethylene) Yes; Class 2 for high reliability Yes; Class 2 for high reliability Yes; Class 2 for high reliability Yes; Type 1 protection Yes; Discoloration of coating possible during service life Yes; Conformal coating, Class A Ves; Conformal coating, Class A	60721-3-6	request
60721-3-6 — Against mechanical environmental conditions acc. to EN 60721-3-6 Usage in industrial process technology — Against chemically active substances acc. to EN 60654-4 — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 Remark — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 Conformal coating • Coatings for printed circuit board assemblies acc. to EN 61086 • Protection against fouling acc. to EN 60664-3 • Military testing according to MIL-I-46058C, Amendment 7 • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A Width 15 mm	60721-3-6	degree 3); *
Usage in industrial process technology — Against chemically active substances acc. to EN 60654-4 — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 Remark — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 Conformal coating • Coatings for printed circuit board assemblies acc. to EN 61086 • Protection against fouling acc. to EN 60664-3 • Military testing according to MIL-I-46058C, Amendment 7 • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A Width 15 mm	60721-3-6	
- Against chemically active substances acc. to EN 60654-4 - Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 Remark - Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 **The supplied plug covers must remain in place over the unused interfaces during operation! **Conformal coating** • Coatings for printed circuit board assemblies acc. to EN 61086 • Protection against fouling acc. to EN 60664-3 • Millitary testing according to MIL-I-46058C, Amendment 7 • Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A Width **Yes; Class 3 (excluding trichlorethylene) Yes; Level GX group A/B (excluding trichlorethylene) Yes; Level GX group A/B (excluding trichlorethylene) Yes; Class 3(excluding trichlorethylene) Yes; Level GX group A/B (excluding trichlorethylene) Yes; Class 3(excluding trichlorethylene) Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil) **The supplied plug covers must remain in place over the unused interfaces during operation! **The supplied plug covers must remain in place over the unused interfaces during operation! **The supplied plug covers must remain in place over the unused interfaces of the supplied plug covers must remain in place over the unused interfaces of the supplied plug covers must remain in place over the unused interfaces of the supplied plug covers must remain in place over the unused interfaces of the supplied plug covers must remain in place over the unused interfaces of the supplied plug covers must remain in place over the unused interfaces of the supplied plug covers must remain in place over the unused interfaces of the s	to EŇ 60721-3-6	
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- Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplied plug covers must remain in place over the unused interfaces during operation! * The supplied plug covers must remain in place over the unused interfaces during operation!	— Environmental conditions for process, measuring	concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level
conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 Conformal coating Coatings for printed circuit board assemblies acc. to EN 61086 Protection against fouling acc. to EN 60664-3 Military testing according to MIL-I-46058C, Amendment 7 Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A Cimensions during operation! Yes; Class 2 for high reliability Yes; Type 1 protection Yes; Discoloration of coating possible during service life Yes; Conformal coating, Class A	Remark	
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Military testing according to MIL-I-46058C, Amendment 7 Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A Width Yes; Discoloration of coating possible during service life Yes; Conformal coating, Class A 15 mm	• .	
Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC- CC-830A Dimensions Width Yes; Conformal coating, Class A Yes; Conformal coating, Class A The second seco	 Protection against fouling acc. to EN 60664-3 	Yes; Type 1 protection
Compound for Printed Board Assemblies according to IPC-CC-830A Dimensions Width 15 mm	 Military testing according to MIL-I-46058C, Amendment 7 	Yes; Discoloration of coating possible during service life
Width 15 mm	Compound for Printed Board Assemblies according to IPC-CC-830A	Yes; Conformal coating, Class A
	imensions	
Height 73 mm		
	-	
Depth 58 mm Veights	·	58 mm

Weight, approx.	30 g

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