SIEMENS

Data sheet

6AG1132-6FD00-7CU0



SIPLUS ET 200SP DQ 4x24..230VAC/2A HF based on 6ES7132-6FD00-0CU0 with conformal coating, -40...+70 $^{\circ}$ C, digital output module, suitable for BU type U0, color code CC20, channel diagnostics two alternative operating modes: DQ and power control,

Figure similar

General information	
Product type designation	DQ 4x24 230 V AC/2 A HF
Firmware version	
FW update possible	Yes
usable BaseUnits	BU type U0
Color code for module-specific color identification plate	CC20
Product function	
 I&M data 	Yes; I&M0 to I&M3
Isochronous mode	No
Operating mode	
• DQ	Yes
 DQ with energy-saving function 	Yes
• PWM	No
 Oversampling 	No
• MSO	No
Phase control	Yes; Control area: 8.5 100% of the phase angle
Trailing-edge phase	No
 Half-wave 	Yes
Full-wave	Yes
Supply voltage	
Rated value (AC)	230 V; 47 63 Hz, max. rate of change of frequency 1 mHz/s
permissible range, lower limit (AC)	20.4 V
permissible range, upper limit (AC)	264 V
Input current	
Current consumption (rated value)	8 mA; without load
output voltage / header	
Rated value (AC)	230 V; 24V AC to 230V AC
Power loss	
Power loss, typ.	9 W; Active power, load voltage 230 V, all outputs loaded with 2 A, 50 Hz
Address area	
Address space per module	
• Inputs	+ 1 byte for QI information
• Outputs	8 byte
Hardware configuration	
Automatic encoding	Yes
Mechanical coding element	Yes
Selection of BaseUnit for connection variants	
1-wire connection	BU type U0
2-wire connection	BU type U0

• 3-wire connection	BU type U0 + Potential distributor module
Digital outputs	
Type of digital output	Triac
Number of digital outputs	4
Current-sinking	No
Current-sourcing	Yes
Digital outputs, parameterizable	Yes
Short-circuit protection	No; external fusing necessary
Open-circuit detection	Yes; channel by channel
Response threshold, typ.	1 mA; 40 V AC or more
Overload protection	No; A miniature fuse with 10 tripping current and tripping characteristic "quick response" must be provided in the module supply
Controlling a digital input	Yes
Switching capacity of the outputs	
with resistive load, max.	2 A; Max. 4 A, see additional description in manual
 with inductive load, max. 	2 A
• on lamp load, max.	100 W; Tungsten rating in accordance with UL; for thermistors with higher power ratings, see the notes in the manual
Output voltage	
• for signal "1", min.	20.4 V
Output current	
for signal "1" rated value	2 A
• for signal "1" permissible range, min.	10 mA
• for signal "1" permissible range, max.	4 A; note derating data in the manual
• for signal "0" residual current, max.	3 mA
Output delay with resistive load	
• "0" to "1", max.	40 ms; 2 AC cycles
• "1" to "0", max.	20 ms; 1 AC cycle
Parallel switching of two outputs	,
• for logic links	No
• for uprating	No
for redundant control of a load	Yes
Switching frequency	
with resistive load, max.	10 Hz; Applies to DQ mode; limited by line frequency in PC mode
• with inductive load (acc. to IEC 60947-5-1, AC15), max.	10 Hz; Applies to DQ mode; limited by line frequency in PC mode
• on lamp load, max.	1 Hz; Applies to DQ mode; limited by line frequency in PC mode
Total current of the outputs	
Current per channel, max.	2 A; Max. 4 A, see additional description in manual
Current per ename, max. Current per module, max.	8 A
Total current of the outputs (per module)	
horizontal installation	
— up to 40 °C, max.	8 A; Applicable for current channels up to 2 A. For current channels between 2
— up to 50 °С, max.	A and 4 A, note derating data in the manual 6 A; Applicable for current channels up to 2 A. For current channels between 2
— up to 60 °C, max.	A and 4 A, note derating data in the manual 4 A; Applicable for current channels up to 2 A. For current channels between 2
— up to 70 °C, max.	A and 4 A, note derating data in the manual 2 A; Applicable for current channels up to 2 A. 2 A; Applicable for current channels up to 2 A.
— up to 70 °C, max.	27, 18 photosic for content challings up to 27
• shielded, max.	1 000 m
unshielded, max. unshielded, max.	600 m
Interrupts/diagnostics/status information	000 III
	Von
Diagnostics function	Yes
Substitute values connectable	Yes
Alarms	Von
Diagnostic alarm	Yes
Diagnoses Piagnostic information readable	Vee
Diagnostic information readable Manifesing the apply uplaces	Yes
Monitoring the supply voltage	Yes
Wire-break Chart sinuit	Yes; channel by channel
Short-circuit	No
Group error	Yes

Monitoring of the supply voltage (PWR-LED) Channel status display For channel displaysible For channel displaysible For module diagnostics For module diagnost	8	
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- to biologically active substances according to EN 60721-3-3 - to chemically active substances according to EN 60721-3-3 - to mechanically active substances according to EN 60721-3-3 - to mechanically active substances according to EN 60721-3-3 - Against mechanical environmental conditions acc. to EN 60721-3-3 - 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 - to mechanically active substances according to EN 60721-3-6 - Against mechanical environmental conditions acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 3M8 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00 0AA0) Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna) Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna) Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna) Yes; Class 6B3 incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 6B3 incl. sand, dust; *		Yes; Incl. diesel and oil droplets in the air
- to biologically active substances according to EN 60721-3-3 - to chemically active substances according to EN 60721-3-3 - to mechanically active substances according to EN 60721-3-3 - to mechanically active substances according to EN 60721-3-3 - Against mechanical environmental conditions acc. to EN 60721-3-3 - 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 - to mechanically active substances according to EN 60721-3-6 - Against mechanical environmental conditions acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 3M8 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00 0AA0) Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna) Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna) Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna) Yes; Class 6B3 incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 6B3 incl. sand, dust; * Yes; Class 6B4 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00 0AA0) Usage in industrial process technology	Use in stationary industrial systems	
Class 3B3 on request — to chemically active substances according to EN 60721-3-3 — to mechanically active substances according to EN 60721-3-3 — Against mechanical environmental conditions acc. to EN 60721-3-3 — 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 — to mechanically 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 mechanical environmental conditions acc. to EN 60721-3-6 — Against mechanical environmental conditions acc. to EN 60721-3-6 — Usage in industrial process technology	•	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna);
degree 3); * - to mechanically active substances according to EN 60721-3-3 - 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 mechanically active substances according to EN 60721-3-6 - to mechanically active substances according to EN 60721-3-6 - to mechanically 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 mechanical environmental conditions acc. to EN 60721-3-6 - Usage in industrial process technology	60721-3-3	Class 3B3 on request
- 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 mechanically 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 mechanical environmental conditions acc. to EN 60721-3-6 - Magainst mechanical environmental conditions acc. to EN 60721-3-6 - Sex Class 3M8 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00 0AA0) Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna) Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 6S3 incl. sand, dust; * Yes; Class 6M4 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00 0AA0) Usage in industrial process technology	60721-3-3	degree 3); *
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 mechanically active substances according to EN 60721-3-6 — Against mechanical environmental conditions acc. to EN 60721-3-6 Usage in industrial process technology OAA0) Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna) Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 6S3 incl. sand, dust; * Yes; Class 6M4 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00 0AA0)	60721-3-3	
 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 Usage in industrial process technology Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna) Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna) Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna) Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna) Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna) Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna) Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna) Yes; Class 6B3 incl. sand, dust; * Yes; Class 6M4 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00 0AA0) 	to EN 60721-3-3	
60721-3-6 — to chemically active substances according to EN 60721-3-6 — to mechanically 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 Usage in industrial process technology Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 6S3 incl. sand, dust; * Yes; Class 6M4 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00 0AA0)	•	Yes: Class 6R2 mold, fungal and dry rot shores (evoluting fauna)
60721-3-6 — 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 degree 3); * Yes; Class 6S3 incl. sand, dust; * Yes; Class 6M4 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00 0AA0)	60721-3-6	
60721-3-6 — Against mechanical environmental conditions acc. to EN 60721-3-6 Usage in industrial process technology Yes; Class 6M4 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00 0AA0)	60721-3-6	degree 3); *
to EN 60721-3-6 0AA0) Usage in industrial process technology	60721-3-6	
0	to EN 60721-3-6	
		V 01 07 15 15 15 15 15 15 15 15 15 15 15 15 15
— Against chemically active substances acc. to EN Yes; Class 3 (excluding trichlorethylene)	60654-4	
— Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 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)		concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level
Remark	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! 	conditions acc. to EN 60721, EN 60654-4 and	
Conformal coating		
Coatings for printed circuit board assemblies acc. to EN Yes; Class 2 for high reliability 61086	Coatings for printed circuit board assemblies acc. to EN	Yes; Class 2 for high reliability
 Protection against fouling acc. to EN 60664-3 Yes; Type 1 protection 		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 Compound for Printed Board Assemblies according to IPC-CC-830A Yes; Conformal coating, Class A	 Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC- 	
Dimensions	Dimensions	

Width	20 mm
Height	73 mm
Depth	58 mm
Weights	
Weight, approx.	50 g

last modified: 9/25/2023 🖸