Data sheet

6AG1132-6BF61-7AA0



SIPLUS ET 200SP DQ 8x24V DC/0.5A Sink Basic based on 6ES7132-6BF61-0AA0 with conformal coating, -40...+70 $^{\circ}$ C, digital output module, suitable for BU type A0, color code CC01

General information		
Product type designation	DQ 8x24VDC/0,5A SNK BA	
Firmware version		
 FW update possible 	No	
usable BaseUnits	BU type A0	
Color code for module-specific color identification plate	CC01	
Product function		
● I&M data	Yes; I&M0 to I&M3	
• Isochronous mode	No	
Engineering with		
 STEP 7 TIA Portal configurable/integrated from version 	see entry ID: 109746275	
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	
output voltage / header		
Rated value (DC)	24 V	
Power loss		
Power loss, typ.	1.5 W	
Address area		
Address space per module		
Outputs	1 byte	
Hardware configuration		
Automatic encoding	Yes	
 Mechanical coding element 	Yes	
Digital outputs		
Type of digital output	Sink output (NPN)	
Number of digital outputs	8	
Current-sinking	Yes	
Digital outputs, parameterizable	Yes	
Short-circuit protection	Yes	
 Response threshold, typ. 	1.5 A	

Limitation of inductive shutdown voltage to	Typ. 47 V
Controlling a digital input	Yes
Switching capacity of the outputs	1 03
	0.5 A
with resistive load, max.on lamp load, max.	5 W
	5 W
Load resistance range	49.0
lower limit	48 Ω
• upper limit	3 400 Ω
Output current	0.5.4
• for signal "1" rated value	0.5 A
• for signal "1" permissible range, max.	0.5 A
for signal "0" residual current, max.	5 μΑ
Output delay with resistive load	
• "0" to "1", max.	300 µs
• "1" to "0", max.	600 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. 	0.5 Hz
on lamp load, max.	10 Hz
Total current of the outputs	
 Current per channel, max. 	0.5 A
 Current per module, max. 	4 A
Total current of the outputs (per module)	
horizontal installation	
— up to 60 °C, max.	4 A
vertical installation	
— 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	100
Diagnostic alarm	Yes
Diagnoses	165
	Yes
Monitoring the supply voltageWire-break	No
Short-circuit Diagnostics indication LED.	No
Diagnostics indication LED	V DWD 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
solation	
Isolation tested with	707 V DC (type test)
Standards, approvals, certificates	
Suitable for safety functions	No
Suitable for safety functions	No
Suitable for safety functions Ambient conditions	No .
Suitable for safety functions Ambient conditions Ambient temperature during operation	
Suitable for safety functions Ambient conditions	-40 °C; = Tmin (incl. condensation/frost) 70 °C; = Tmax

Installation altitude above sea level, max. And in the sixthesis and sixthesis are set in the season of the sixthesis.	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, *
 Against mechanical environmental conditions acc. to EN 60721-3-3 	Yes; Class 3M8 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00-0AA0)
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 to EN 60721-3-6 	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
 to mechanically active substances according to EN 60721-3-6 	Yes; Class 6S3 incl. sand, dust; *
 Against mechanical environmental conditions acc. to EN 60721-3-6 	Yes; Class 6M4 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00-0AA0)
Usage in industrial process technology	
 Against chemically active substances acc. to EN 60654-4 	Yes; Class 3 (excluding trichlorethylene)
 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)
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 	Yes; Class 2 for high reliability
 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 Compound for Printed Board Assemblies according to IPC- CC-830A 	Yes; Conformal coating, Class A
Dimensions	
Width	15 mm
Height	73 mm
Depth	58 mm
Veights	
Weight, approx.	30 g
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