SIEMENS

Data sheet

6AG1132-6GD51-7BA0



SIPLUS ET 200SP RQ 4x24VDC/2A CO ST based on 6ES7132-6GD51-0BA0 with conformal coating, -40...+70 °C, signal relay module, suitable for BU type A0, color code CC00, substitute value output, module diagnostics for: supply voltage

Product type designationRQ CO 4x24VDC/2A STFirmware versionV0.0• FW update possibleNobased on6ES7132-6GD51-0BA0usable BaseUnitsBU type A0Color code for module-specific color identification plateCC00Product function	General information					
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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 Engineering with • STEP 7 TIA Portal configurable/integrated from version see entry ID: 109746275 Operating mode Yes • DQ Yes • DQ with energy-saving function No • PWM No	FW update possible	No				
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• Isochronous mode No Engineering with	Product function					
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Operating mode • DQ Yes • DQ with energy-saving function No • PWM No	Engineering with					
• DQ Yes • DQ with energy-saving function No • PWM No	STEP 7 TIA Portal configurable/integrated from version	see entry ID: 109746275				
DQ with energy-saving function PWM No	Operating mode					
• PWM No	• DQ	Yes				
	 DQ with energy-saving function 	No				
Oversampling No	• PWM	No				
	Oversampling	No				
• MSO No	• MSO	No				
Redundancy	Redundancy					
Redundancy capability Yes		Yes				
Supply voltage	Supply voltage					
Rated value (DC) 24 V	Rated value (DC)	24 V				
permissible range, lower limit (DC) 19.2 V	permissible range, lower limit (DC)	19.2 V				
permissible range, upper limit (DC) 28.8 V	permissible range, upper limit (DC)	28.8 V				
Reverse polarity protection Yes	Reverse polarity protection	Yes				
Input current	Input current					
Current consumption (rated value) 50 mA	Current consumption (rated value)	50 mA				
Power loss	Power loss					
Power loss, typ. 1.2 W	Power loss, typ.	1.2 W				
Address area	Address area					
Address space per module	Address space per module					
Inputs + 1 byte for QI information	Inputs	+ 1 byte for QI information				
Outputs 1 byte	Outputs	1 byte				
Hardware configuration	Hardware configuration					
Automatic encoding Yes	Automatic encoding	Yes				
Mechanical coding element Yes	Mechanical coding element	Yes				
Digital outputs	Digital outputs					
Type of digital output Relays	Type of digital output	Relays				
Number of digital outputs 4	Number of digital outputs	4				
Current-sinking Yes	Current-sinking	Yes				

Current-sourcing	Yes
Digital outputs, parameterizable	Yes
Short-circuit protection	No
Parallel switching of two outputs	
for logic links	Yes
• for uprating	No
 for redundant control of a load 	Yes
Switching frequency	
with resistive load, max.	2 Hz
Total current of the outputs	
Current per channel, max.	2 A
Current per module, max.	8 A
Total current of the outputs (per module)	
horizontal installation	
— 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
— up to 30°C, max.	6 A
— up to 50 °C, max.	4 A; in all other mounting positions
Relay outputs	
Number of relay outputs	4
Rated supply voltage of relay coil L+ (DC)	24 V
 Current consumption of relays (coil current of all relays), max. 	40 mA
Switching capacity of contacts	
— with resistive load, max.	2 A
— Thermal continuous current, max.	2 A
— Switching current, min.	1 mA; 5 V DC
Rated switching voltage (DC)	24 V
— Rated switching voltage (AC)	24 V
Cable length	4 000
• shielded, max.	1 000 m
• unshielded, max.	200 m
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Substitute values connectable	Yes
Alarms	
Diagnostic alarm	Yes
Diagnoses	
 Monitoring the supply voltage 	Yes
Wire-break	No
Short-circuit	No
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	Yes
 between the channels and backplane bus 	Yes
 between the channels and the power supply of the 	Yes
electronics	
Isolation	
Isolation tested with	
	707 V DC (type test)
Standards, approvals, certificates	707 V DC (type test)
Standards, approvals, certificates Suitable for safety functions	
Suitable for safety functions	No

 horizontal installation, min. 	-40 °C; = Tmin (incl. condensati	·		
 horizontal installation, max. 	70 °C; = Tmax; see Derating Ba max. aggregate current 2 A per		ditionally Tmax > 60 °C	
Altitude during operation relating to sea level	max. aggregate current 2 A per	group		
Installation altitude above sea level, max.	5 000 m			
		205 hPo (1000 m) + 2.00	(0.0 m) // Tmin // Tmax	
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 / fros condensation conditions)	t permitted (no commission	oning under	
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 a	nd dry rot spores (with the	e exception of fauna)	
 — to chemically active substances according to EN 60721-3-3 	Yes; Class 3C4 (RH < 75 %) in degree 3); *	cl. salt spray acc. to EN 6	60068-2-52 (severity	
 — 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 SIPL 0AA0)	US Mounting Kit ET 2005	SP (6AG1193-6AA00-	
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			
Weights				
Weight, approx.	30 g			
Classifications				
		Version	Classification	
	eClass	14	27-24-26-04	
	eClass	12	27-24-26-04	
	eClass	9.1	27-24-26-04	
	eClass	9	27-24-26-04	
	eClass	8	27-24-26-04	
	eClass	7.1	27-24-26-04	

Approvals / Certificate			eClass ETIM ETIM ETIM IDEA UNSPSC	6 9 8 7 4 15	27-24-26-04 EC001599 EC001599 EC001599 3566 32-15-17-05
General Product Ap	proval <u>Manufacturer Declara-</u> <u>tion</u>	C C EG-Konf.	UK CA	(UL) UL	
Marine / Shipping					

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