SIEMENS

Data sheet

6AG1132-6BD20-7BA0



SIPLUS ET 200SP, digital output module, DQ 4x 24VDC/2A Standard, -40...+70°C start up -25°C with conformal coating based on 6ES7132-6BD20-0BA0. suitable for BU type A0, Color code CC02, Module diagnostics

Figure similar

General information		
Product type designation	DQ 4x24 V DC/2 A ST	
usable BaseUnits	BU type A0	
Supply voltage		
Rated value (DC)	24 V	
permissible range, lower limit (DC)	19.2 V	
permissible range, upper limit (DC)	28.8 V	
Power loss		
Power loss, typ.	1 W	
Address area		
Address space per module		
 Address space per module, max. 	32 byte	
Digital outputs		
Number of digital outputs	4; > +60 °C number of simultaneously controllable outputs max. $2x\ 0.25$ A or max. $4x\ 0.125$ A, max. total current 0.5 A	
Short-circuit protection		
Response threshold, typ.	2.8 to 5.2 A	
Limitation of inductive shutdown voltage to	Typ. L+ (-50 V)	
Controlling a digital input	Yes	
Switching capacity of the outputs		
 with resistive load, max. 	2 A	
• on lamp load, max.	10 W	
Load resistance range		
 lower limit 	12 Ω	
upper limit	3 400 Ω	
Output current		
● for signal "1" rated value	2 A	
Output delay with resistive load		
• "0" to "1", max.	50 μs	
• "1" to "0", max.	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	

a on lamp load, may	10 Hz
on lamp load, max. Cable length	10 ΠΖ
shielded, max.	1 000 m
unshielded, max. unshielded, max.	200 m
Interrupts/diagnostics/status information	250 III
Diagnoses	
Monitoring the supply voltage	Yes
Wire-break	Yes
Short-circuit	Yes
Group error	Yes
Permissible potential difference	
between different circuits	75 V DC/60 V AC
Isolation	
Isolation tested with	707 V DC
Standards, approvals, certificates	
Suitable for safety functions	No
Ambient conditions	
Ambient temperature during operation	
horizontal installation, min.	-40 °C; = Tmin (incl. condensation/frost)
 horizontal installation, max. 	70 °C; = Tmax; > +60 °C number of simultaneously controllable outputs
	max. 2x 0.25 A or max. 4x 0.125 A, max. total current 0.5 A
vertical installation, min.	-40 °C; = Tmin
vertical installation, max.	50 °C; = Tmax
Altitude during operation relating to sea level	F 000
Installation altitude above sea level, max. Application for temperature become trip processing.	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 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation
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 	* The supplied plug covers must remain in place over the unused interfaces during operation!

ANSI/ISA-71.04	
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
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