SIEMENS

Data sheet

6AG1132-6BD20-7BA0



SIPLUS ET 200SP DQ 4x24VDC/2A Standard based on 6ES7132-6BD20-0BA0 with conformal coating, -40...+70 °C, digital output module, suitable for BU type A0, color code CC02, channel diagnostics,

Figuresimilar

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	
Type of digital output	Source output (PNP, current-sourcing)
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	Yes
 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
 on lamp load, max. 	10 Hz
Cable length	
 shielded, max. 	1 000 m

 unshielded, max. 	200 m
Interrupts/diagnostics/status information	
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	
 Installation altitude above sea level, max. 	5 000 m
Ambient air temperature-barometric pressure-	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin
altitude	(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	100 %; RH incl. condensation / frost (no commissioning in bedewed
60068-2-38, max.	state), horizontal installation
Resistance	
Coolants and lubricants	Very local discal and all descripts in the air
 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	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of
EN 60721-3-3	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	Yes; Class 3S4 incl. sand, dust, *
EN 60721-3-3	,
Against mechanical environmental conditions	Yes; Class 3M8 using the SIPLUS Mounting Kit ET 200SP (6AG1193-
acc. to EN 60721-3-3 Use on ships/at sea	6AA00-0AA0)
— to biologically active substances according to	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on
EN 60721-3-6	request
 to chemically active substances according to 	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52
EN 60721-3-6	(severity degree 3); *
 — to mechanically active substances according to EN 60721-3-6 	Yes; Class 6S3 incl. sand, dust; *
 Against mechanical environmental conditions 	Yes; Class 6M4 using the SIPLUS Mounting Kit ET 200SP (6AG1193-
acc. to EN 60721-3-6	6AA00-0AA0)
Usage in industrial process technology	Vac Class 2 (avaluding tricklassity lass)
 Against chemically active substances acc. to EN 60654-4 	Yes; Class 3 (excluding trichlorethylene)
— Environmental conditions for process,	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas
measuring and control systems acc. to ANSI/ISA-	concentrations up to the limits of EN 60721-3-3 class 3C4 permissible);
71.04 Remark	level LC3 (salt spray) and level LB3 (oil)
— Note regarding classification of environmental	* The supplied plug covers must remain in place over the unused
conditions acc. to EN 60721, EN 60654-4 and	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, 	Yes; Discoloration of coating possible during service life
Amendment 7	

Yes; Conformal coating, Class A

• Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A

Dimensions	
Width	15 mm
Height Depth	73 mm
Depth	58 mm
Weights	
Weight, approx.	30 g

last modified:

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