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Data sheet 6AG1132-4BD02-7AA0



SIPLUS ET 200S EM 4DQ standard based on 6ES7132-4BD02-0AA0 with conformal coating, -25…+70 °C, electronic module 24 V DC/0.5 A 15 mm width, 5 units per packing unit

General information	
Product function	
● Isochronous mode	Yes
Supply voltage	
Reverse voltage protection	Yes; when using the same load voltage as on the power module
Load voltage L+	
● Rated value (DC)	24 V; From power module
● Reverse polarity protection	Yes; polarity reversal can lead to the digital outputs being connected through
Input current	
from load voltage L+ (without load), max.	10 mA; Per channel
from backplane bus 3.3 V DC, max.	10 mA
Power loss	
Power loss, typ.	0.8 W
Address area	
Address space per module	
● Address space per module, max.	1 byte
● with packing	4 bit
Digital outputs	
Type of digital output	Transistor
Number of digital outputs	4
Short-circuit protection	Yes
● Response threshold, typ.	1 to 1.5 A
Limitation of inductive shutdown voltage to	Typ. L+ (-55 to -60 V)
Controlling a digital input	Yes
Switching capacity of the outputs	
● on lamp load, max.	5 W
Load resistance range	
● lower limit	48 Ω
● upper limit	3 400 Ω
Output voltage	
● for signal "1", min.	L+ (-1 V)
Output current	
● for signal "1" rated value	0.5 A
● for signal "1" permissible range, min.	7 mA
● for signal "1" permissible range, max.	600 mA
● for signal "0" residual current, max.	0.3 mA
Output delay with resistive load	
● "0" to "1", max.	45 µs; Typical value
● "1" to "0", max.	90 µs; Typical value

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Parallel switching of two outputs	
● for uprating	No
● for redundant control of a load	Yes; per module
Switching frequency	
● with resistive load, max.	800 Hz
● with inductive load, max.	2 Hz
● on lamp load, max.	10 Hz
Total current of the outputs	
● Current per module, max.	2 A
Cable length	
● shielded, max.	1 000 m
● unshielded, max.	600 m
Interrupts/diagnostics/status information	
Diagnostics function	No
Diagnostics indication LED	
● Status indicator digital output (green)	Yes
Potential separation	
Potential separation digital outputs	
● between the channels	No
● between the channels and backplane bus	Yes
Isolation	
Isolation tested with	500 V DC
Ambient conditions	
Ambient temperature during operation	
● min.	-25 °C; = Tmin
● max.	70 °C; = Tmax
Altitude during operation relating to sea level	
● Installation altitude above sea level, max.	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 under condensation conditions)
Resistance	
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, *
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; *
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!
Dimensions	
Width	15 mm
Height	81 mm
Depth	52 mm

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Weights

Weight, approx.	40 g

Classifications

	Version	Classification
eClass	16	27-24-26-04
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
eClass	6	27-24-26-04
ETIM	10	EC001599
ETIM	9	EC001599
ETIM	8	EC001599
ETIM	7	EC001599
IDEA	4	3566
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval

Manufacturer Declaration

China RoHS

EMV

For use in hazardous locations

CCC-Ex

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