SIEMENS

Data sheet

6AG1131-6CF00-7AU0



SIPLUS ET 200SP DI 8x48VUC BA -40...+70°C with Conformal Coating based on 6ES7131-6CF00-0AU0 . digital input module, DI 8x 24 V AC..48 V UC Basic, packing quantity: 1 unit, suitable for BU type U0, color code CC20, module diagnostics

Figure similar

Product type designation Firmware version Firmware version Five update possible usable BaseUnits Butype U0 Product function Isochronous mode Operating mode DI Oversampling MSI No Supply voltage Rated value (DC) permissible range, lower limit (DC) Rated value (AC) permissible range, upper limit (DC) Rated value (AC) permissible range, upper limit (AC) permissible range, upper limit (AC) permissible range, upper limit (AC) Reverse polarity protection Reverse polarity protection Yes Input current Current consumption, max. To mA; without sensor supply Number of outputs Short-circuit protection Yes, Per modulle, 5x 20 mm fuse, 2 A/250 V, quick-response, replaceable Output current Ou	General information	
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Operating mode	Product function	
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Number of outputs Short-circuit protection Yes; Per module, 5x 20 mm fuse, 2 A/250 V, quick-response, replaceable Output current • up to 70 °C, max. 24 V encoder supply • 24 V No Power loss Power loss, typ. Address area Address space per module • Address space per module, max. 1 byte	Current consumption, max.	70 mA; without sensor supply
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Address space per module • Address space per module, max. 1 byte	Power loss, typ.	1.5 W
Address space per module, max. 1 byte	Address area	
	Address space per module	
Hardware configuration	Address space per module, max.	1 byte
	Hardware configuration	

Automatic anading	
Automatic encoding • Mechanical coding element	Yes
Selection of BaseUnit for connection variants	TES
1-wire connection	BU type U0
2-wire connection	BU type U0
3-wire connection	BU type U0 + Potential distributor module
4-wire connection	BU type U0 + Potential distributor module
	Bo type ou + Fotential distributor module
Digital inputs	8
Number of digital inputs	
Source/sink input	P-reading Yes
Input characteristic curve in accordance with IEC 61131, type 1	
Input characteristic curve in accordance with IEC 61131, type 2	No
Input characteristic curve in accordance with IEC 61131, type 3	No -
Pulse extension	No
Input voltage	
• for signal "0"	AC/DC < 10 V
• for signal "1"	AC > 14 V, DC > 34 V
Input current	
● for signal "1", typ.	3.5 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— parameterizable	No
— at "0" to "1", max.	15 ms
— at "1" to "0", max.	20 ms
Cable length	
shielded, max.	1 000 m
unshielded, max.	600 m
Encoder	
Connectable encoders	
• 2-wire sensor	Yes
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Alarms	
Diagnostic alarm	Yes
Diagnoses	
Diagnostic information readable	Yes
Monitoring the supply voltage	Yes
Monitoring of encoder power supply	Yes
Group error	Yes
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 	No
 between the channels and backplane bus 	Yes
 between the channels and the power supply of the electronics 	No
Isolation	
Isolation tested with	1 200 V DC between supply voltage and backplane bus
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
Altitude during operation relating to sea level	
Installation altitude above sea level, max.	2 000 m
 Ambient air temperature-barometric pressure- 	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m)
altitude	, , , , , , , , , , , , , , , , , , ,
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, fungal and dry rot spores (excluding fauna)
 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	20 mm
Height	73 mm
Depth	58 mm
Veights	
Weight, approx.	40 g
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