SIEMENS

Data sheet

6AG1131-6BF00-7CA0



SIPLUS ET 200SP DI 8x24 V DC HF based on 6ES7131-6BF00-0CA0 with conformal coating, -40...+70 $^{\circ}$ C, digital input module, suitable for BU type A0, color code CC01, channel diagnostics

Figure similar

DI 8x24 V DC HF
V2.0
Yes
BU type A0
CC01
Yes; I&M0 to I&M3
Yes
Yes
No
No
Yes
24 V
19.2 V
28.8 V
Yes
Yes
Yes; per channel, electronic
700 mA; Per channel
1.5 W
8 byte; 2 channels per submodule + QI information
4
BU type A0
BU type A0
BU type A0 with AUX terminals
BU type A0 + external terminals

Source/sink input	P-reading
Input characteristic curve in accordance with IEC 61131, type 1	Yes
Input characteristic curve in accordance with IEC 61131, type 2	No
Input characteristic curve in accordance with IEC 61131, type 3	Yes
Pulse extension	Yes; Pulse duration from 4 µs
Length	2 s; 50 ms, 100 ms, 200 ms, 500 ms, 1 s, 2 s
Edge evaluation	Yes; rising edge, falling edge, edge change
Input voltage	
Rated value (DC)	24 V
• for signal "0"	-30 to +5 V
• for signal "1"	+11 to +30V
Input current	
for signal "1", typ.	2.5 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— parameterizable	Yes; 0.05 / 0.1 / 0.4 / 0.8 / 1.6 / 3.2 / 12.8 / 20 ms (in each case + delay of 30 to
·	500 μs, depending on line length)
for interrupt inputs	
— parameterizable	Yes
for technological functions	
— parameterizable	No
Cable length	
• shielded, max.	1 000 m
• unshielded, max.	600 m
Encoder	
Connectable encoders	
2-wire sensor	Yes
 permissible quiescent current (2-wire sensor), max. 	1.5 mA
Isochronous mode	
Filtering and processing time (TCI), min.	420 μs
Bus cycle time (TDP), min.	500 μs
Jitter, max.	8 µs
Interrupts/diagnostics/status information	ο μο
Diagnostics function	Yes
Alarms	165
	Voc: channel by channel
Diagnostic alarm Hardware interrupt	Yes; Channel by channel
Hardware interrupt	Yes; Parameterizable, channels 0 to 7
Diagnoses	V
Diagnostic information readable	Yes
Monitoring the supply voltage	Yes
— parameterizable	Yes
Monitoring of encoder power supply	Yes; channel by channel
Wire-break	Yes; channel by channel
Short-circuit	Yes; channel by channel
Diagnostics indication LED	
 Monitoring of the supply voltage (PWR-LED) 	Yes; green PWR LED
Channel status display	Yes; green LED
 for channel diagnostics 	Yes; red LED
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	707 V DC (type test)
Standards, approvals, certificates	
Suitable for safety functions	No
Ambient conditions	
Ambient temperature during operation	

-40 °C; = Tmin (incl. condensation/frost)
70 °C; = Tmax; > +60 °C encoder supply output current max. 350 mA per
channel
5 000 m
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)
100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation
Yes; Incl. diesel and oil droplets in the air
Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
Yes; Class 3S4 incl. sand, dust, *
Yes; Class 3M8 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00-0AA0)
Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request
Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
Yes; Class 6S3 incl. sand, dust; *
Yes; Class 6M4 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00-0AA0)
Yes; Class 3 (excluding trichlorethylene)
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)
* The supplied plug covers must remain in place over the unused interfaces during operation!
Yes; Class 2 for high reliability
Yes; Type 1 protection
Yes; Discoloration of coating possible during service life
Yes; Conformal coating, Class A
15 mm
73 mm
58 mm
28 g

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