SIEMENS

Data sheet

6AG1131-6TF00-7CA0



SIPLUS ET 200SP DI 8xNAMUR HF based on 6ES7131-6TF00-0CA0 with conformal coating, -40...+70 °C, digital input module, suitable for BU type A0, color code CC01, channel diagnostics

Figure similar

Product type designation Di &xNAMUR HF	(C. 56.11105.75.15)	
Firmware version FFW update possible Assed on usable BaseUnits Color code for module-specific color identification plate Product function I &M data I sochronous mode Engineering with STEP 7 TIA Portal configurable/integrated from version Operating mode DI Counter No Coversampling No No Supply voltage Rated value (DC) permissible range, upper limit (DC) Reverse polarity protection Finder supply No Short-circuit protection Yes Short-circuit protection Yes Short-circuit protection Yes Short-circuit protection Yes Address area Address space per module Address space per module, max. Digital Inputs, parameterizable Yes Yes, 15, 2 s Felse versie odge, falling edge, edge change	General information	
	Product type designation	DI 8xNAMUR HF
based on	Firmware version	
Usable BaseUnits	FW update possible	Yes
Color code for module-specific color identification plate Product function I &M data Security (a) & SEA (b) & SEA (c) & SEA (based on	6ES7131-6TF00-0CA0
Product function • I&M data • Isochronous mode No Engineering with • STEP 7 TIA Portal configurable/integrated from version Operating mode • DI • Counter • No • Oversampling • MSI Supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) permissible range, upper limit (DC) Encoder supply Number of outputs Short-circuit protection 24 V es Suptive outper seasons Short-circuit protection Power loss, typ. Address space per module • Address space per module, max. Digital inputs Number of digital inputs Number of digital inputs Power loss space per module, max. 1 byte; + 1 byte for QI information Digital inputs Number of digital inputs Pous of digital inputs Number of digital inputs Power loss space per module, max. 1 byte; + 1 byte for QI information Digital inputs Pulse extension Yes; 0.5 s, 1 s, 2 s Fedge evaluation	usable BaseUnits	BU type A0
• I&M data Yes; I&M0 to I&M3 • Isochronous mode No	Color code for module-specific color identification plate	CC01
Step 7 TIA Portal configurable/integrated from version Step 7 TIA Portal configurable/integrated from version Step 7 TIA Portal configurable/integrated from version See entry ID: 109746275 Operating mode DI Supul Yes Counter No Oversampling No No Supply voltage Rated value (DC) Permissible range, lower limit (DC) Permissible range, upper limit (DC) Reverse polarity protection Yes Encoder supply Number of outputs Short-circuit protection Yes 24 V Short-circuit protection Yes Power loss, typ. Address area Address space per module Address space per module Address space per module Address space per module, max. Digital inputs Number of digital inputs Number of digital inputs Power loss, typ. Address space per module, max. Digital inputs Number of digital inputs Number of digital inputs Power loss, typ. Address pace per module, max. Power loss, typ. Address pace per module Address pace per module, max. Poligital inputs Number of digital inputs Pulse extension Yes; rising edge, falling edge, edge change	Product function	
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STEP 7 TIA Portal configurable/integrated from version Operating mode Operating mode Operating mode Oversampling No MSI No Supply voltage Rated value (DC) permissible range, lower limit (DC) Reverse polarity protection Final Short-circuit protection Short-circuit protection Yes Short-circuit protection Over loss Power loss, typ. Address space per module Address space per module Address space per module, max. Digital inputs Number of lotig tal inputs Pees Name of lotig	Isochronous mode	No
Operating mode O DI O Counter O Vess Oversampling No MSI No Supply voltage Rated value (DC) Permissible range, lower limit (DC) Permissible range, upper limit (DC) Reverse polarity protection Yes Encoder supply Number of outputs Short-circuit protection Yes Short-circuit protection Yes Short-circuit protection Yes Short-circuit protection No Power loss Power loss Power loss, typ. Address space per module Addr	Engineering with	
• DI • Counter • Counter • Oversampling • MsI • MsI Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit	STEP 7 TIA Portal configurable/integrated from version	see entry ID: 109746275
Counter Oversampling No No No Supply voltage Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) permissible range, upper limit (DC) 28.8 V Reverse polarity protection Yes Encoder supply Number of outputs 8 Short-circuit protection Yes 24 V encoder supply 24 V encoder supply 24 V No Short-circuit protection No Power loss Power loss, typ. Address area Address space per module Address space per module Address space per module, max. 1 byte; + 1 byte for Ql information Digital inputs Number of digital inputs Pulse extension Yes; 0.5 s, 1 s, 2 s Edge evaluation Yes; rising edge, falling edge, edge change	Operating mode	
Oversampling	• DI	Yes
No Supply voltage Rated value (DC)	Counter	No
Rated value (DC) 24 V permissible range, lower limit (DC) 19.2 V permissible range, upper limit (DC) 28.8 V Reverse polarity protection Yes Encoder supply Number of outputs 8 Short-circuit protection Yes 24 V encoder supply • 24 V No • Short-circuit protection No Power loss Power loss, typ. 1.5 W Address area Address space per module • Address space per module, max. 1 byte; + 1 byte for Ql information Digital inputs Number of digital inputs 8; NAMUR Digital inputs, parameterizable Yes Pulse extension Yes; o.5 s, 1 s, 2 s Edge evaluation Yes; rising edge, edge change	 Oversampling 	No
Rated value (DC) 24 V permissible range, lower limit (DC) 19.2 V permissible range, upper limit (DC) 28.8 V Reverse polarity protection Yes Encoder supply Number of outputs 8 Short-circuit protection Yes 24 V encoder supply • 24 V No • Short-circuit protection No Power loss Power loss, typ. 1.5 W Address space per module • Address space per module, max. 1 byte; + 1 byte for QI information Digital inputs Number of digital inputs 8; NAMUR Digital inputs, parameterizable Yes Pulse extension Yes; rising edge, falling edge, edge change	• MSI	No
permissible range, lower limit (DC) permissible range, upper limit (DC) Reverse polarity protection Yes Encoder supply Number of outputs Short-circuit protection Yes 24 V encoder supply • 24 V • Short-circuit protection No Power loss Power loss, typ. Address area Address space per module • Address space per module, max. Digital inputs Number of digital inputs Number of digital inputs Number of digital inputs Pulse extension Yes; 0.5 s, 1 s, 2 s Edge evaluation Yes; rising edge, falling edge, edge change	Supply voltage	
permissible range, upper limit (DC) Reverse polarity protection Percoder supply Number of outputs 8 Short-circuit protection 24 V encoder supply • 24 V • Short-circuit protection Power loss Power loss, typ. Address space per module • Address space per module, max. Digital inputs Number of digital inputs Pulse extension Piess (25, 5, 1, 2, 2, 5, 1, 2, 2, 5, 11, 2, 2, 5, 11, 2, 2, 5, 11, 2, 2, 5, 11, 2, 2, 5, 11, 2, 2, 5, 11, 2,	Rated value (DC)	24 V
Reverse polarity protection Fincoder supply Number of outputs Short-circuit protection 24 V encoder supply • 24 V • Short-circuit protection No Power loss Power loss, typ. Address space per module • Address space per module, max. Digital inputs Number of digital inputs Digital inputs, parameterizable Pulse extension Yes Finding address Yes Finding address Finding address Reverse polarity protection 8 8 8 8 8 8 8 8 8 8 8 8 8	permissible range, lower limit (DC)	19.2 V
Encoder supply Number of outputs Short-circuit protection 24 V encoder supply • 24 V • Short-circuit protection No Power loss Power loss, typ. Address area Address space per module • Address space per module, max. Digital inputs Number of digital inputs Digital inputs, parameterizable Pulse extension Yes, 0.5 s, 1 s, 2 s Edge evaluation Session Yes, rising edge, falling edge, edge change	permissible range, upper limit (DC)	28.8 V
Number of outputs Short-circuit protection 24 V encoder supply • 24 V • Short-circuit protection No Power loss Power loss, typ. Address area Address space per module • Address space per module, max. Digital inputs Number of digital inputs Digital inputs, parameterizable Pulse extension Yes; rising edge, falling edge, edge change	Reverse polarity protection	Yes
Short-circuit protection 24 V encoder supply 24 V Short-circuit protection No Power loss Power loss, typ. 1.5 W Address area Address space per module Address space per module, max. 1 byte; + 1 byte for QI information Digital inputs Number of digital inputs Number of digital inputs Piglial inputs Signal inputs Number of digital inputs Pulse extension Yes; 0.5 s, 1 s, 2 s Edge evaluation Yes Yes; rising edge, falling edge, edge change	Encoder supply	
24 V encoder supply • 24 V • Short-circuit protection No Power loss Power loss, typ. Address area Address space per module • Address space per module, max. 1 byte; + 1 byte for QI information Digital inputs Number of digital inputs Number of digital inputs Pulse extension Pulse evaluation Yes; 0.5 s, 1 s, 2 s Edge evaluation Yes; rising edge, falling edge, edge change	Number of outputs	8
No Short-circuit protection No Short-circuit protection No Power loss Power loss, typ. Address area Address space per module Address space per module, max. I byte; + 1 byte for QI information Digital inputs Number of digital inputs Number of digital inputs Signal inputs, parameterizable Pulse extension Yes; 0.5 s, 1 s, 2 s Edge evaluation Yes; rising edge, falling edge, edge change	Short-circuit protection	Yes
● Short-circuit protection No Power loss Power loss, typ. 1.5 W Address area Address space per module ● Address space per module, max. 1 byte; + 1 byte for QI information Digital inputs Number of digital inputs 8; NAMUR Digital inputs, parameterizable Yes Pulse extension Yes; 0.5 s, 1 s, 2 s Edge evaluation Yes; rising edge, falling edge, edge change	24 V encoder supply	
Power loss, typ. Address area Address space per module • Address space per module, max. 1 byte; + 1 byte for QI information Digital inputs Number of digital inputs Digital inputs, parameterizable Pulse extension Yes; 0.5 s, 1 s, 2 s Edge evaluation 1 byte; + 1 byte for QI information Yes; 0.5 s, 1 s, 2 s	• 24 V	No
Power loss, typ. Address area Address space per module	 Short-circuit protection 	No
Address area Address space per module ◆ Address space per module, max. 1 byte; + 1 byte for QI information Digital inputs Number of digital inputs Digital inputs, parameterizable Pulse extension Yes; 0.5 s, 1 s, 2 s Edge evaluation Yes; rising edge, falling edge, edge change	Power loss	
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● Address space per module, max. Digital inputs Number of digital inputs Digital inputs Signal inputs Pulse extension Pulse evaluation Pulse evaluation 1 byte; + 1 byte for QI information 8; NAMUR Yes Yes Yes Yes Yes Yes; 0.5 s, 1 s, 2 s Edge evaluation Yes; rising edge, falling edge, edge change	Address area	
Digital inputs Number of digital inputs 8; NAMUR Digital inputs, parameterizable Yes Pulse extension Yes; 0.5 s, 1 s, 2 s Edge evaluation Yes; rising edge, falling edge, edge change	Address space per module	
Number of digital inputs 8; NAMUR Digital inputs, parameterizable Yes Pulse extension Yes; 0.5 s, 1 s, 2 s Edge evaluation Yes; rising edge, falling edge, edge change	Address space per module, max.	1 byte; + 1 byte for QI information
Digital inputs, parameterizable Pulse extension Yes; 0.5 s, 1 s, 2 s Edge evaluation Yes; rising edge, falling edge, edge change	Digital inputs	
Digital inputs, parameterizable Yes Pulse extension Yes; 0.5 s, 1 s, 2 s Edge evaluation Yes; rising edge, falling edge, edge change	Number of digital inputs	8; NAMUR
Pulse extension Yes; 0.5 s, 1 s, 2 s Edge evaluation Yes; rising edge, falling edge, edge change		Yes
Edge evaluation Yes; rising edge, falling edge, edge change		Yes; 0.5 s, 1 s, 2 s
	Edge evaluation	
Signal change nutter	Signal change flutter	Yes; 2 to 32 signal changes

Flutter observation window	Yes; 0.5 s, 1 s to 100 s in 1-s steps
Input voltage	1 65, 0.0 5, 1 5 to 100 5 til 1-5 steps
	8.2 V
Rated value (DC)	8.2 V
Input current	
for 10 k switched contact	
— for signal "0", min.	0.35 mA
— for signal "0", max.	1.2 mA
— for signal "1", min.	2.1 mA
— for signal "1", max.	7 mA
for unswitched contact	
— for signal "0", max. (permissible quiescent current)	0.5 mA
— for signal "1", typ.	8 mA
for NAMUR encoders	
— for signal "0", min.	0.35 mA
— for signal "0", max.	1.2 mA
— for signal "1", min.	2.1 mA
— for signal "1", max.	7 mA
Input delay (for rated value of input voltage)	THUX
	200 mg
tolerated changeover time for changeover contacts for standard inputs	300 ms
for standard inputs	Ti.
— parameterizable	No
for NAMUR inputs	
— at "0" to "1", max.	12 ms
— at "1" to "0", max.	12 ms
Cable length	
• shielded, max.	200 m
Encoder	
Connectable encoders	
 NAMUR encoder/changeover contact according to EN 	Yes
60947	
 Single contact / changeover contact unconnected 	Yes
Single contact / changeover contact connected with 10	Yes
kΩ	
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Alarms	
Diagnostic alarm	Yes; channel by channel
 Hardware interrupt 	Vac. Daramatarizable, abanyala 0 to 7
and the second s	Yes; Parameterizable, channels 0 to 7
Diagnoses	Yes, Parameterizable, channels 0 to 7
	Yes, Parameterizable, channels 0 to 7
Diagnoses	
Diagnoses • Diagnostic information readable	Yes
Diagnoses Diagnostic information readable Monitoring the supply voltage	Yes Yes Yes
Diagnoses Diagnostic information readable Monitoring the supply voltage — parameterizable	Yes Yes
Diagnoses Diagnostic information readable Monitoring the supply voltage — parameterizable Monitoring of encoder power supply	Yes Yes Yes Yes; channel by channel
Diagnoses Diagnostic information readable Monitoring the supply voltage — parameterizable Monitoring of encoder power supply Wire-break	Yes Yes Yes Yes; channel by channel Yes; channel by channel
Diagnoses Diagnostic information readable Monitoring the supply voltage — parameterizable Monitoring of encoder power supply Wire-break Short-circuit Group error	Yes Yes Yes Yes Yes; channel by channel Yes; channel by channel
Diagnoses Diagnostic information readable Monitoring the supply voltage — parameterizable Monitoring of encoder power supply Wire-break Short-circuit Group error Diagnostics indication LED	Yes Yes Yes Yes; channel by channel Yes; channel by channel Yes; channel by channel Yes
Diagnoses Diagnostic information readable Monitoring the supply voltage — parameterizable Monitoring of encoder power supply Wire-break Short-circuit Group error Diagnostics indication LED Monitoring of the supply voltage (PWR-LED)	Yes Yes Yes Yes; channel by channel Yes; channel by channel Yes; channel by channel Yes Yes; green PWR LED
Diagnoses Diagnostic information readable Monitoring the supply voltage — parameterizable Monitoring of encoder power supply Wire-break Short-circuit Group error Diagnostics indication LED Monitoring of the supply voltage (PWR-LED) Channel status display	Yes Yes Yes Yes; channel by channel Yes; channel by channel Yes; channel by channel Yes Yes; green PWR LED Yes; green LED
Diagnoses Diagnostic information readable Monitoring the supply voltage — parameterizable Monitoring of encoder power supply Wire-break Short-circuit Group error Diagnostics indication LED Monitoring of the supply voltage (PWR-LED) Channel status display for channel diagnostics	Yes Yes Yes Yes; channel by channel Yes; channel by channel Yes; channel by channel Yes Yes Yes; green PWR LED Yes; green LED Yes; red LED
Diagnoses Diagnostic information readable Monitoring the supply voltage — parameterizable Monitoring of encoder power supply Wire-break Short-circuit Group error Diagnostics indication LED Monitoring of the supply voltage (PWR-LED) Channel status display for channel diagnostics for module diagnostics	Yes Yes Yes Yes; channel by channel Yes; channel by channel Yes; channel by channel Yes Yes; green PWR LED Yes; green LED
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Diagnoses Diagnostic information readable Monitoring the supply voltage — parameterizable Monitoring of encoder power supply Wire-break Short-circuit Group error Diagnostics indication LED Monitoring of the supply voltage (PWR-LED) Channel status display for channel diagnostics for module diagnostics for module diagnostics Potential separation Potential separation channels	Yes Yes Yes Yes; channel by channel Yes; channel by channel Yes; channel by channel Yes Yes; green PWR LED Yes; green LED Yes; red LED Yes; green/red DIAG LED
Diagnoses Diagnostic information readable Monitoring the supply voltage — parameterizable Monitoring of encoder power supply Wire-break Short-circuit Group error Diagnostics indication LED Monitoring of the supply voltage (PWR-LED) Channel status display for channel diagnostics for module diagnostics for module diagnostics Potential separation Potential separation channels between the channels	Yes Yes Yes Yes; channel by channel Yes; channel by channel Yes; channel by channel Yes Yes Yes; green PWR LED Yes; green LED Yes; red LED
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40 °C; = Tmin (incl. condensation/frost); start-up @ -25 °C 70 °C; = Tmax; > +60 °C number of simultaneously controllable inputs max. 4 no adjacent points) 5 000 m Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tma 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), norizontal installation 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 3M8 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00-0AA0)
70 °C; = Tmax; > +60 °C number of simultaneously controllable inputs max. 4 no adjacent points) 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), norizontal 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 3M8 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00-
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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-
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-
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Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on equest
Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
res; Class 6S3 incl. sand, dust; *
Yes; Class 6M4 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00-0AA0)
res; 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
32 g
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