Data sheet

6ES7131-6CF00-0AU0



SIMATIC ET 200SP, 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

eneral information	DIA 04/40/40/410 DA
Product type designation	DI 8x24VAC/48VUC BA
HW functional status	From FS02
Firmware version	V0.0
FW update possible	No
usable BaseUnits	BU type U0
Product function	
I&M data	Yes; I&M0 to I&M3
 Isochronous mode 	No
 suitable for operation on PROFINET R1 IMs 	Yes
Engineering with	
 STEP 7 TIA Portal configurable/integrated from version 	V15
 STEP 7 configurable/integrated from version 	V5.6
 PROFIBUS from GSD version/GSD revision 	One GSD file each, Revision 3 and 5 and higher
 PROFINET from GSD version/GSD revision 	GSDML V2.3
Operating mode	
• DI	Yes
Counter	No
Oversampling	No
• MSI	No
Supply voltage	
Rated value (DC)	48 V
permissible range, lower limit (DC)	40.8 V
permissible range, upper limit (DC)	57.6 V
Rated value (AC)	48 V; 24 V/48 V; 50 Hz/60 Hz
permissible range, lower limit (AC)	40.8 V
permissible range, upper limit (AC)	52.8 V
Reverse polarity protection	Yes
nput current	
Current consumption, max.	70 mA; without sensor supply
incoder supply	
Number of outputs	8
Short-circuit protection	Yes; Per module, 5x 20 mm fuse, 2 A/250 V, quick-response, replaceable
Output current	
• up to 60 °C, max.	1 A
24 V encoder supply	
• 24 V	No
ower loss	
Power loss, typ.	1.5 W
Address area	

Address space per module		
Address space per module, max.	1 byte	
Hardware configuration		
Automatic encoding		
Mechanical coding element	Yes	
Type of mechanical coding element	type C	
Selection of BaseUnit for connection variants	Al	
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	
Digital inputs		
Number of digital inputs	8	
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	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 Magitaria the graph walks as	Yes	
Monitoring the supply voltage	Yes	
 Monitoring of encoder power supply 	Yes	
- Croun area	Vac	
Group error Discussion indication LED	Yes	
Diagnostics indication LED		
Diagnostics indication LED • Monitoring of the supply voltage (PWR-LED)	Yes; green PWR LED	
Diagnostics indication LED • Monitoring of the supply voltage (PWR-LED) • Channel status display	Yes; green PWR LED Yes; green LED	
Diagnostics indication LED	Yes; green PWR LED Yes; green LED No	
Diagnostics indication LED Monitoring of the supply voltage (PWR-LED) Channel status display for channel diagnostics for module diagnostics	Yes; green PWR LED Yes; green LED	
Diagnostics indication LED • Monitoring of the supply voltage (PWR-LED) • Channel status display • for channel diagnostics • for module diagnostics Potential separation	Yes; green PWR LED Yes; green LED No	
Diagnostics indication LED • Monitoring of the supply voltage (PWR-LED) • Channel status display • for channel diagnostics • for module diagnostics Potential separation Potential separation channels	Yes; green PWR LED Yes; green LED No Yes; green/red DIAG LED	
Diagnostics indication LED • Monitoring of the supply voltage (PWR-LED) • Channel status display • for channel diagnostics • for module diagnostics Potential separation Potential separation channels • between the channels	Yes; green PWR LED Yes; green LED No Yes; green/red DIAG LED	
Diagnostics indication LED • Monitoring of the supply voltage (PWR-LED) • Channel status display • for channel diagnostics • for module diagnostics Potential separation Potential separation channels • between the channels • between the channels and backplane bus	Yes; green PWR LED Yes; green LED No Yes; green/red DIAG LED No Yes	
Diagnostics indication LED • Monitoring of the supply voltage (PWR-LED) • Channel status display • for channel diagnostics • for module diagnostics Potential separation Potential separation channels • between the channels	Yes; green PWR LED Yes; green LED No Yes; green/red DIAG LED	
Diagnostics indication LED • Monitoring of the supply voltage (PWR-LED) • Channel status display • for channel diagnostics • for module diagnostics Potential separation Potential separation channels • between the channels • between the channels and backplane bus • between the channels and the power supply of the	Yes; green PWR LED Yes; green LED No Yes; green/red DIAG LED No Yes	
Diagnostics indication LED • Monitoring of the supply voltage (PWR-LED) • Channel status display • for channel diagnostics • for module diagnostics Potential separation Potential separation channels • between the channels • between the channels and backplane bus • between the channels and the power supply of the electronics	Yes; green PWR LED Yes; green LED No Yes; green/red DIAG LED	
Diagnostics indication LED • Monitoring of the supply voltage (PWR-LED) • Channel status display • for channel diagnostics • for module diagnostics Potential separation Potential separation channels • between the channels • between the channels and backplane bus • between the channels and the power supply of the electronics Isolation	Yes; green PWR LED Yes; green LED No Yes; green/red DIAG LED No Yes No	
Diagnostics indication LED • Monitoring of the supply voltage (PWR-LED) • Channel status display • for channel diagnostics • for module diagnostics Potential separation Potential separation channels • between the channels • between the channels and backplane bus • between the channels and the power supply of the electronics Isolation Isolation tested with	Yes; green PWR LED Yes; green LED No Yes; green/red DIAG LED No Yes No	
Diagnostics indication LED • Monitoring of the supply voltage (PWR-LED) • Channel status display • for channel diagnostics • for module diagnostics Potential separation Potential separation channels • between the channels • between the channels and backplane bus • between the channels and the power supply of the electronics Isolation Isolation tested with Standards, approvals, certificates	Yes; green PWR LED Yes; green LED No Yes; green/red DIAG LED No Yes No 1 200 V DC between supply voltage and backplane bus	
Diagnostics indication LED • Monitoring of the supply voltage (PWR-LED) • Channel status display • for channel diagnostics • for module diagnostics Potential separation Potential separation channels • between the channels • between the channels and backplane bus • between the channels and the power supply of the electronics Isolation Isolation tested with Standards, approvals, certificates Suitable for safety functions	Yes; green PWR LED Yes; green LED No Yes; green/red DIAG LED No Yes No 1 200 V DC between supply voltage and backplane bus	

 horizontal installation, min. 	-30 °C
 horizontal installation, max. 	60 °C
 vertical installation, min. 	-30 °C
 vertical installation, max. 	50 °C
Altitude during operation relating to sea level	
 Installation altitude above sea level, max. 	2 000 m; On request: Installation altitudes greater than 2 000 m
Dimensions	
Width	20 mm
Height	73 mm
Depth	58 mm
Weights	
Weight, approx.	40 g

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