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	
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	
Isochronous mode	No
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
upply 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
put current	
Current consumption, max.	70 mA; without sensor supply
ncoder 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
ddress 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	
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 	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 Potential separation channels	
	No
Potential separation channels	No Yes
Potential separation channels • between the channels • between the channels and backplane bus • between the channels and the power supply of the	
Potential separation channels	Yes
Potential separation channels	Yes No
Potential separation channels	Yes
Potential separation channels • between the channels • between the channels and backplane bus • between the channels and the power supply of the electronics Isolation	Yes No
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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 No 1 200 V DC between supply voltage and backplane bus
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 No 1 200 V DC between supply voltage and backplane bus
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 Ambient conditions	Yes No 1 200 V DC between supply voltage and backplane bus

 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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