SIEMENS

Data sheet

6ES7131-6FD01-0BB1

SIMATIC ET 200SP, Digital input module, DI 4x 120..230V AC Standard, type 3 (IEC 61131), Packing unit: 1 piece, fits to BU-type B1, Colour Code CC41, module diagnostics



General information	
Product type designation	DI 4x120 230 V AC ST
Firmware version	V0.0
 FW update possible 	No
usable BaseUnits	BU type B1
Color code for module-specific color identification plate	CC41
Product function	
● I&M data	Yes; I&M0 to I&M3
Engineering with	
 STEP 7 TIA Portal configurable/integrated as of version 	V14
 STEP 7 configurable/integrated as of version 	V5.5 SP3
 PROFIBUS as of GSD version/GSD revision 	One GSD file each, Revision 3 and 5 and higher
 PROFINET as of GSD version/GSD revision 	GSDML V2.3
Operating mode	
• DI	Yes
• Counter	No
Oversampling	No

• MSI	No
Supply voltage	
Rated value (AC)	230 V
Reverse polarity protection	No
Input current	
Current consumption (rated value)	10 mA
Encoder supply Number of outputs	4
Short-circuit protection	No; when using BU type B1, a fuse with 10 A tripping current must
Chart and at protoction	be provided
Output current	
● up to 60 °C, max.	10 A
Power loss	
Power loss, typ.	1 W; Active power, load voltage 230 V, all inputs connected with
, ,,	230 V, 50 Hz
Address area	
Address space per module	
• Inputs	1 byte; + 1 byte for QI information
Hardware configuration	
Hardware configuration Automatic encoding	Yes
Mechanical coding element	Yes
Selection of BaseUnit for connection variants	
• 1-wire connection	BU type B1
2-wire connection	BU type B1
3-wire connection	BU type B1
4-wire connection	BU type B1 + potential distributor module
Di televice di	
Digital inputs Number of digital inputs	4
Input characteristic curve in accordance with IEC	Yes
61131, type 3	
Input voltage	
Type of input voltage	120/230 V AC (47 Hz to 63 Hz)
• Rated value (AC)	230 V
• for signal "0"	0V AC to 40V AC
• for signal "1"	74 V AC to 264 V AC
Input current	
● for signal "1", typ.	10.8 mA
Input delay (for rated value of input voltage)	
for standard inputs	No

— at "0" to "1", min.	1.5 ms
— at "0" to "1", max.	4 ms
— at "1" to "0", min.	10 ms
— at "1" to "0", max.	10 ms
Cable length	
• shielded, max.	1 000 m
• unshielded, max.	600 m
Encoder	
Connectable encoders	
• 2-wire sensor	Yes
Isochronous mode	
Isochronous operation (application synchronized up	No
to terminal)	
Interrupts/diagnostics/status information	
Alarms	
Diagnostic alarm	No
Hardware interrupt	No
Diagnostic messages	
Monitoring the supply voltage	No
Wire-break	No
Short-circuit	No
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	No
the electronics	
Isolation	
Isolation tested with	2 545 V DC/2 s (routine test)
Ambient conditions	
Altitude during operation relating to sea level	
Ambient air temperature-barometric pressure-	On request: Ambient temperatures lower than 0 °C (without
altitude	condensation) and/or installation altitudes greater than 2 000 m
Dimensions	
Width	20 mm

Height	73 mm	
Depth	58 mm	
Weights		
Weight, approx.	36 g	
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