## Data sheet 6ES7131-6BF01-2AA0



SIMATIC ET 200SP, Digital input module, DI 8x 24V DC Basic, type 2 (IEC 61131), sink input, (PNP, P-reading), Packing unit: 10 pieces, fits to BU-type A0, Colour Code CC01, input delay time 0,05..20ms, module diagnostics for: supply voltage

General information		
Product type designation	DI 8x24VDC BA	
HW functional status	FS03	
Firmware version	V0.0	
FW update possible	No	
usable BaseUnits	BU type A0	
Color code for module-specific color identification plate	CC01	
Product function		
<ul> <li>I&amp;M data</li> </ul>	Yes; I&M0 to I&M3	
Isochronous mode	No	
Engineering with		
<ul> <li>STEP 7 TIA Portal configurable/integrated from version</li> </ul>	V14	
<ul> <li>STEP 7 configurable/integrated from version</li> </ul>	V5.5 SP3 / -	
<ul> <li>PROFIBUS from GSD version/GSD revision</li> </ul>	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	
<ul> <li>Oversampling</li> </ul>	No	
• MSI	No	
Supply voltage		
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	
Input current		
Current consumption, max.	70 mA; All channels are supplied from the encoder supply	
Encoder supply		
Number of outputs	8	
Output voltage, min.	19.2 V	
Short-circuit protection	Yes; per module	
24 V encoder supply		
• 24 V	Yes	
Short-circuit protection	Yes	
<ul> <li>Output current per channel, max.</li> </ul>	700 mA	
<ul> <li>Output current per module, max.</li> </ul>	700 mA	
Power loss		
Power loss, typ.		

1 byte	
Yes	
Yes	
Type A	
BU type A0	
BU type A0	
BU type A0 with AUX terminals	
BU type A0 + Potential distributor module	
8	
Yes	
P-reading	
Yes	
Yes	
Yes	
24 V	
-30 to +5 V	
+11 to +30V	
6.8 mA	
V 005/04/04/00/100/100/100/100/100	
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 $\mu$ s, depending on line length)	
0.05 ms	
20 ms	
0.05 ms	
20 ms	
4.000	
1 000 m	
600 m	
Encoder  Connectable encoders	
V	
Yes	
2 mA	
max. Interrupts/diagnostics/status information	
Yes	
160	
Yes	
100	
Yes	
Yes	
Yes	
No	
No	
No	
No Yes	
No Yes	
Yes	
Yes; green PWR LED	
Yes	

Potential separation	
Potential separation channels	
<ul> <li>between the channels</li> </ul>	No
<ul> <li>between the channels and backplane bus</li> </ul>	Yes
<ul> <li>between the channels and the power supply of the electronics</li> </ul>	No
Isolation	
Isolation tested with	707 V DC (type test)
Standards, approvals, certificates	
Suitable for safety functions	No
Ambient conditions	
Ambient temperature during operation	
<ul> <li>horizontal installation, min.</li> </ul>	-30 °C; < 0 °C as of FS03
<ul> <li>horizontal installation, max.</li> </ul>	60 °C
<ul> <li>vertical installation, min.</li> </ul>	-30 °C; < 0 °C as of FS03
<ul> <li>vertical installation, max.</li> </ul>	50 °C
Altitude during operation relating to sea level	
<ul> <li>Installation altitude above sea level, max.</li> </ul>	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual
Dimensions	
Width	15 mm
Height	73 mm
Depth	58 mm
Weights	
Weight, approx.	28 g

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last modified: