SIEMENS

Data sheet 6ES7223-3BD30-0XB0

SIMATIC S7-1200, Digital I/O SB 1223, 2 DI/2 DQ, 24 V DC 200 kHz

Figure similar

General information	
Product type designation	SB 1223, DI 2x24 V DC/DQ 2x24 V DC 200 kHz
Input current	
from backplane bus 5 V DC, typ.	35 mA
Power loss	
Power loss, typ.	0.5 W
Digital inputs	
Number of digital inputs	2; Current-sourcing
• in groups of	2
Number of simultaneously controllable inputs	
all mounting positions	
— up to 40 °C, max.	2
Input voltage	
• Type of input voltage	DC
• Rated value (DC)	24 V
• for signal "0"	(L+ minus 5.0 V DC) ... L+

Subject to change without notice
© Copyright Siemens

• for signal "1"	0 V ... (L+ minus 10 V DC)
Input current	
• for signal "0", max. (permissible quiescent current)	1.4 mA
• for signal "1", min.	2.9 mA
• for signal "1", typ.	7 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— parameterizable	Yes; 0.1 / 0.2 / 0.4 / 0.8 / 1.6 / 3.2 / 6.4 / 10.0 / 12.8 / 20.0 µs; 0.05 / 0.1 / 0.2 / 0.4 / 0.8 / 1.6 / 3.2 / 6.4 / 10.0 / 12.8 / 20.0 ms
for interrupt inputs	
— parameterizable	Yes
for technological functions	
— parameterizable	Yes
Cable length	
• shielded, max.	50 m; shielded, twisted pair

Digital outputs	
Number of digital outputs	2; MOSFET, solid-state (current-sinking/current-sourcing)
• in groups of	2
Short-circuit protection	No
Switching capacity of the outputs	
• with resistive load, max.	0.1 A
Output voltage	
• Rated value (DC)	24 V
• for signal "0", max.	1 V
• for signal "1", min.	L+ (-1.5 V)
Output current	
• for signal "1" permissible range, max.	0.1 A
Cable length	
• shielded, max.	50 m

Interrupts/diagnostics/status information	
Diagnostics indication LED	
• for status of the inputs	Yes
• for status of the outputs	Yes

Degree and class of protection	
Degree of protection acc. to EN 60529	
• IP20	Yes

Ambient conditions	
Free fall	
• Fall height, max.	0.3 m; five times, in product package
Ambient temperature during operation	

Subject to change without notice
© Copyright Siemens

• min.	-20 °C
• max.	60 °C
• horizontal installation, min.	-20 °C
• horizontal installation, max.	60 °C
• vertical installation, min.	-20 °C
• vertical installation, max.	50 °C
Ambient temperature during storage/transportation	
• min.	-40 °C
• max.	70 °C
Air pressure acc. to IEC 60068-2-13	
• Storage/transport, min.	660 hPa
• Storage/transport, max.	1 080 hPa
Relative humidity	
• Operation at 25 °C without condensation, max.	95 %

Mechanics/material	
Enclosure material (front)	
• Plastic	Yes

Dimensions	
Width	38 mm
Height	62 mm
Depth	21 mm

Weights	
Weight, approx.	35 g

last modified: 08/16/2018

Subject to change without notice
© Copyright Siemens