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SIEMENS

23.0

SB 1222 digital output modules

Overview

- Digital outputs as a supplement to the integral I/O of SIMATIC S7-1200 CPUs
- Can be plugged directly into the CPU

Application

The SB 1222 digital output signal boards enable the digital signals of the controller to be output to the process.

Design

The Signal Boards are plugged straight into the holder on the front of the S7-1200-CPU.

- Mounting:
- Signal Boards are plugged direct into the SIMATIC S7-1200-CPU and linked electrically and mechanically with the CPU in this way.
- The installation dimensions of the CPU remain unchanged.
- On all Signal Boards, replacement is facilitated by removable terminals ("permanent wiring").

Function

The SB 1222 digital input/output signal board converts the internal signal level of the S7-1200 controller to the external signal level of the S7-1200 controller to the external signal level for the process

Technical specifications

Article number	6ES7222-1AD30-0XB0	6ES7222-1BD30-0XB0 Signal Board SB1222, 4 DQ 24VDC 200KHz
	Signal Board SB1222, 4 DQ 5VDC 200KHz	
Product type designation	SB 1222, DQ 4x5 V DC 200 kHz	SB 1222, DQ 4x24 V DC 200 kHz
Input current		
from backplane bus 5 V DC, typ.	35 mA	35 mA
Power loss		
Power loss, typ.	0.5 W	0.5 W
Digital outputs	4: MOCEET Bid -t-t- (A MOOFET - I'd -t-t- (
Number of digital outputs	 MOSFET, solid-state (current- sinking/current-sourcing) 	4; MOSFET, solid-state (current- sinking/current-sourcing)
• in groups of	4	4
Short-circuit protection	No	No
Switching capacity of the outputs	140	140
with resistive load, max.	0.1 A	0.1 A
	<u>.</u>	
Load resistance range	7 Ω	11 Ω
upper limit	· 12	11 1/2
Output voltage		
 Rated value (DC) 	5 V	24 V
• for signal "0", max.	0.2 V	1 V; with 10 kOhm load
• for signal "1", min.	L+ minus 0.7 V DC	L+ (-1.5 V)
• for signal "1", max.	6 V	
Output current		
 for signal "1" permissible range, max. 	0.1 A	0.1 A
Cable length	·	•
shielded, max.	50 m	50 m
Interrupts/diagnostics/status information		
Diagnostics indication LED		
for status of the outputs	Yes	Yes
Standards, approvals, certificates	 -	
CE mark	Yes	Yes
CSA approval	Yes	Yes
UL approval	Yes	Yes
cULus	Yes	Yes
FM approval	Yes	Yes
RCM (formerly C-TICK)	Yes	Yes
KC approval	Yes	Yes
Marine approval	Yes	Yes
Ambient conditions		
Free fall		
• Fall height, max.	0.3 m; five times, in product package	0.3 m; five times, in product package
Ambient temperature during operation	pasiago	
• min.	-20 °C	-20 °C
• max.	60 °C	60 °C

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-20 °C 60 °C

-20 °C

50 °C

-20 °C

60 °C

-20 °C

50 °C

1/2

• horizontal installation, min.

• horizontal installation, max.

vertical installation, min.

vertical installation, max.

Ambient temperature during storage/transportation

Article number	6ES7222-1AD30-0XB0	6ES7222-1BD30-0XB0
	Signal Board SB1222, 4 DQ 5VDC 200KHz	Signal Board SB1222, 4 DQ 24VDC 200KHz
• min.	-40 °C	-40 °C
• max.	70 °C	70 °C
Air pressure acc. to IEC 60068-2-13		
Storage/transport, min.	660 hPa	660 hPa
Storage/transport, max.	1 080 hPa	1 080 hPa
Relative humidity		•
\bullet Operation at 25 $^{\circ}\!\mathrm{C}$ without condensation, max.	95 %	95 %
Mechanics/material		
Enclosure material (front)		
Plastic	Yes	Yes
Dimensions	-	•
Width	38 mm	38 mm
Height	62 mm	62 mm
Depth	21 mm	21 mm
Weights		·
Weight, approx.	35 g	35 g