

SIMATIC S7-1200

Installation Instructions

6ES7222-1BD30-0XB0

SB 1222 High-Speed Digital Output Board

OUTPUTS	VOLTAGE	CURRENT	SPEED
4 MOSFET	24 V DC	0.1 A	200 kHz

01 PRODUCT VERIFICATION

Article number	6ES7222-1BD30-0XB0
Product	SB 1222 High-Speed Digital Output Board
Family	SIMATIC S7-1200
Product type	SB 1222 DQ 4x24 V DC 200 kHz
Digital outputs	4
Output technology	MOSFET solid-state
Output operation	Sinking or sourcing
Rated output voltage	24 V DC

02 BEFORE INSTALLATION

- Power down the S7-1200 CPU and disconnect every output load circuit before fitting or removing the board.
- Install the SB 1222 only in the designated signal-board position of a compatible S7-1200 CPU.

OFFICIAL INSTALLATION DRAWING

The selected Siemens source page is retained as the installation and wiring reference. Use the current controlled manual for final work.

Ambient temperature during operation			
• 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	
Classifications			
		Version	Classification
eClass	16		27-24-22-04
eClass	14		27-24-22-04
eClass	12		27-24-22-04
eClass	9.1		27-24-22-04
eClass	9		27-24-22-04
eClass	8		27-24-22-04
eClass	7.1		27-24-22-04
eClass	6		27-24-22-04
ETIM	10		EC001419
ETIM	9		EC001419
ETIM	8		EC001419
ETIM	7		EC001419
IDEA	4		3566
UNSPSC	15		32-15-17-05
Approvals / Certificates			
General Product Approval			
Miscellaneous Manufacturer Declaration			
General Product Approval EMV For use in hazardous locations			
Manufacturer Declaration China RoHS			
For use in hazardous locations Maritime application			

04 INSTALLATION SEQUENCE

01

Power down the S7-1200 CPU and disconnect every output load circuit before fitting or removing the board.

02

Install the SB 1222 only in the designated signal-board position of a compatible S7-1200 CPU.

03

Wire the four 24 V DC outputs for the selected sinking or sourcing arrangement and provide external circuit protection.

04

Configure the required pulse, PWM, frequency or digital-output function and verify the load before enabling outputs.

05 OFFICIAL DOCUMENTATION

SIMATIC S7-1200 SB 1222 Technical Data (6ES7222-1BD30-0XB0)

[Open current Siemens manual](#)

[Open Siemens exact product record](#)

06 SUPPORT CONTACT

AMIKON PRODUCT SUPPORT

Amikon Limited

+86-18020776786

INFO@AMIKON.CN

AMIKONG.COM