

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

PRODUCT BRAND

Siemens

PRODUCT MODEL

6ES7222-1BD30-0XB0

Siemens 6ES7222-1BD30-0XB0 is a SIMATIC S7-1200 SB 1222 signal board with four 24 V DC MOSFET digital outputs. The outputs support high-speed switching up to 200 kHz and provide 0.1 A rated current per channel for suitable field loads.

The board installs in a compatible S7-1200 CPU and is not a standalone output module. Load type, polarity, channel grouping, switching frequency, cabling, and external circuit protection must be verified because the exact board does not provide short-circuit protection at its outputs.

OFFICIAL SOURCE

SIMATIC S7-1200 SB 1222 Technical Data

6ES7222-1BD30-0XB0

[Open current Siemens source](#)



Figure similar

SIMATIC S7-1200, Digital output SB 1222, 4 DO, 24 V DC 200 kHz

General information	
Product type designation	SB 1222, DO 4x24 V DC 200 kHz
Input current	
from backplane bus 5 V DC, typ.	35 mA
Power loss	
Power loss, typ.	0.5 W
Digital outputs	
Number of digital outputs	4; MOSFET, solid-state (current-sinking/current-sourcing)
• in groups of	4
Short-circuit protection	No
Switching capacity of the outputs	
• with resistive load, max.	0.1 A
Load resistance range	
• upper limit	11 Ω
Output voltage	
• Rated value (DC)	24 V
• for signal "0", max.	1 V; with 10 k Ω m load
• for signal "1", min.	L+ (-1.5 V)
Output current	
• for signal "1" rated value	0.1 A
• 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 outputs	Yes
Standards, approvals, certificates	
CE mark	Yes
CSA approval	Yes
UL approval	Yes
cULus	Yes
FM approval	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
Marine approval	Yes
Ambient conditions	
Free fall	
• Fall height, max.	0.3 m; five times, in product package

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	