

AMIKON TECHNICAL DOCUMENTATION

Product Data Sheet

Siemens 6ES7223-0BD30-0XB0

SIMATIC S7-1200 | SB 1223 digital input/output signal board

INPUTS	OUTPUTS	FIELD	FORMAT
2 digital	2 digital	24 V DC	Signal board

Siemens 6ES7223-0BD30-0XB0 is the SIMATIC S7-1200 SB 1223 signal board with two 24 V DC digital inputs and two 24 V DC digital outputs. It adds a small number of local signals through the compatible CPU's signal-board slot rather than a separate side-mounted module.

01

VERIFIED TECHNICAL DATA

Digital input channels	2 current-sinking inputs, IEC Type 1
Digital output channels	2 sourcing MOSFET outputs
Field supply range	20.4-28.8 V DC
Input signal thresholds	Logic 0: 5 V maximum; logic 1: 15 V minimum
Maximum output current	0.5 A per channel
Maximum lamp load	5 W
Power dissipation	1.0 W
Backplane current consumption	50 mA from the SM bus

Technical basis: A5E02486680-AP, V4.6, 11/2022. Exact-model values are distinguished from applicable series instructions. Verify the current product and installed revision before engineering.

02 OPERATING & INTEGRATION LIMITS

Output leakage current	10 microamps maximum per point
Output overload protection	Not provided by the board
Output switching delay	2 microseconds maximum off-to-on; 10 microseconds maximum on-to-off
Field-to-logic isolation	707 V DC type test
RUN-to-STOP output behavior	Last value or substitute value; default substitute value is 0
Field connector assignment	X19: L+, M, DI e.0, DI e.1, DQ e.0, DQ e.1

03 PRODUCT SELECTION CHECKS

- Match the standard SB 1223 article, not a high-speed variant
- Confirm the CPU board slot and configured hardware support
- Check sinking input polarity and sourcing output loads
- Provide circuit protection within the output ratings

04 OFFICIAL DOCUMENTATION

A5E02486680-AP - V4.6, 11/2022

Current official product information

This is an independent product reference, not a certificate for an individual unit. Gross shipping weight is not inferred from net product mass.