



Siemens 6DD1681-0AG2

SB70 Relay Interface Module for SIMATIC TDC / FM 458-1DP

Product scope

- Converts eight controller outputs into electrically isolated relay contacts.
- Switches plant circuits rated up to 120 V AC/DC through the X2 terminals.
- Uses the documented SC62 controller cable and a separate 24 V supply at X3.
- Provides LED indication and an X5 reference test socket for service checks.

Manufacturer source

Siemens SIMADYN D / SIMATIC TDC Hardware Manual, SB70 interface-module section.

The enclosed record and retained manufacturer pages identify the exact product and explain its function, operating principle, application and critical matching requirements.

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Siemens 6DD1681-0AG2

SB70 Relay Interface Module for SIMATIC TDC / FM 458-1DP

Manufacturer-source product record

This record consolidates exact-model facts from the manufacturer references listed below. It is included to identify the ordering configuration before the retained source pages.

Product designation	SB70
Output type	Relay outputs
Number of outputs	8
Maximum field voltage	120 V AC/DC
Controller-side level	24 V DC
Electrical separation	Relay isolation between controller and plant circuits
Controller cable	SC62
Controller connector	X1 flat-cable connector
X1 signals	Eight signal pins plus 1P and 1M supply references
Field connectors	Two 12-pole X2 terminal groups
Relay contacts	Normally open, normally closed and common contacts
Supply terminal	X3 for 24 V supply
Test socket	X5 with 1P (+) and 1M (G)
Local indication	LED indicators
Housing	Snap-on rail-mounted enclosure
Output-cable protection	PTC protection

Official references

- Siemens SIMADYN D / SIMATIC TDC Hardware Manual, SB70 interface-module section.
- Official source: https://support.industry.siemens.com/cs/attachments/16531412/K09_D_HW52_HW9_B03_ko.pdf

Only the exact configuration shown above is represented. Adjacent model variants, optional assemblies and system accessories are not treated as part of this ordering identity.

Function, operating principle and application

The notes below explain how this product is used and how its documented signal, power or control path operates. They remain limited to the manufacturer evidence for this model.

Function

The SB70 converts eight controller-side 24 V digital commands into isolated relay-contact outputs for plant circuits operating at up to 120 V AC or DC.

Operating principle

Signals arrive through the SC62 flat cable at X1. Each command energizes its assigned relay, and the isolated normally open, normally closed and common contacts are made available at the X2 terminal groups.

Power and indication

The interface receives its documented 24 V supply through X3. LEDs support local state checks, while the X5 test socket exposes the 1P and 1M reference points for controlled diagnostics.

System application

The rail-mounted module provides the boundary between SIMATIC TDC or FM 458-1DP logic and field circuits that require relay isolation or a higher switching-voltage capability.

Installation boundary

Verify the complete article number, SC62 cable, 24 V supply, contact allocation and field-load duty. Suppression and protective devices must match the connected inductive loads and site wiring design.



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