At the end of this document you will find links to products related to this catalog. You can go directly to our shop by clicking HERE. [HERE](#)

Termination board - IBS S7 300 DSC-T - 2719975

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (http://phoenixcontact.com/download)

Termination board for Siemens SIMATIC® S7 300 PLCs

Product Description

INTERBUS controller board for Siemens SIMATIC S7-300 PLCs

The IBS S7 300 BC-T and IBS S7 300 DSC-T controller boards allow you to connect SIMATIC S7 300 PLCs to the INTERBUS system.

The IBS S7 300 BC-T basic variant is inexpensive and the emphasis is on easy startup with "Plug & Play" and straightforward operation. The INTERBUS configuration is read in and started automatically when the supply voltage is switched on. Diagnostic and operating statuses are displayed directly on the controller board by several LEDs.

With the convenient high-end IBS S7 300 DSC-T controller board you can extend your performance with:
- Data preprocessing functions
- Synchronous operating modes
- Extended parameterization functions using the IBS CMD SWT G4 software tool, and
- PCP communication

On the outside, the IBS S7 300 DSC-T differs from the basic version in that it has a plug-in parameterization memory and the proven diagnostics display with a separate keyboard for operating the extensive display functions. The diagnostics data are displayed in plain text. This means that any malfunctions can be remedied within a very short period, increasing the availability of your system.

System monitoring is performed by an automatic diagnostic function. The diagnostics data from the control system are naturally also available via a diagnostics register (input word) and can be used for a visualization system, for example.

IBS CMD makes it easy to parameterize INTERBUS. These parameterization data that are on the plug-in type IBS MC FLASH parameterization memory, can then be saved on the controller board. If the controller board is replaced, the entire INTERBUS parameterization on the FLASH card can simply be plugged into a new board.

The sensor and actuator data are displayed and edited as with the Siemens input/output modules in STEP7.

The INTERBUS system is controlled via a function register. Frequently used diagnostic and control functions (e.g. by passing devices and switching them on and off, erasing the diagnostic display, acknowledging messages) can be called up directly by simply setting outputs.

Why buy this product

■ Blocks for STEP 7 simplify integration

■ INTERBUS with up to 8192 I/O points per controller board

■ Maximum INTERBUS transmission speed of 2 Mbaud

Key Commercial Data

Packing unit	1 STK
GTIN	4 017918 132293

Termination board - IBS S7 300 DSC-T - 2719975

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area

Dimensions

Width	80 mm
Height	125 mm
Depth	110 mm

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	0 °C ... 60 °C (0°C to 40°C (vertical installation))
Ambient temperature (storage/transport)	-25 °C ... 65 °C
Permissible humidity (operation)	30 % (up to 75%, no condensation)
Permissible humidity (storage/transport)	30 % (up to 95%, no condensation)
Air pressure (operation)	860 hPa ... 1080 kPa (up to 1500 m above mean sea level)
Air pressure (storage/transport)	660 hPa ... 1080 kPa (up to 3500 m above mean sea level)

Control system

Control system	SIMATIC® S7-300 controllers
Programming tool	STEP 7 from version 5.x
Diagnostics tool	DIAG+ from version 1.0x
Configuration tool	CMD from Version 4.0x

Software interfaces

Application interface	S7 I/O driver
	S7 function blocks

Software requirements

Configuration tool	CMD from Version 4.0x
	Config+ from version 1.10 onwards
Diagnostics tool	DIAG+ from version 1.0x
Programming tool	STEP 7 from version 5.x

Power supply

Power supply connection	External power supply
Max. current consumption	300 mA (at 24 V DC, max. 10 mA from S7-300 I/O bus)
Supply voltage	24 V DC
Power dissipation	max. 7.2 W

General

Weight	686 g
Format	1 slot

Data interfaces

Interface	Control system

Termination board - IBS S7 300 DSC-T - 2719975

Technical data

Data interfaces

Connection method	SIMATIC$^®$ S7-300-I/O-Bus
Interface	INTERBUS remote bus
Connection method	9-pos. D-SUB socket strip
Transmission speed	500 kBit/s / 2 MBit/s
Interface	Parameterization/operation/diagnostics
Connection method	RS-232-C, D-SUB male connector
Interrupts	Process alarm

Fieldbus function

Amount of process data	max. 8192 Bit
Number of supported devices	max. 128 (of which 254 are remote bus devices/bus segments)
Number of devices with parameter channel	max. 126 (512 words)

Standards and Regulations

Connection in acc. with standard	CUL

Classifications

eCl@ss

eCl@ss 4.0	27240409
eCl@ss 4.1	27240409
eCl@ss 5.0	27242215
eCl@ss 5.1	27242208
eCl@ss 6.0	27242208
eCl@ss 7.0	27242208
eCl@ss 8.0	27242208

ETIM

ETIM 2.0	EC001423
ETIM 3.0	EC001423
ETIM 4.0	EC001423
ETIM 5.0	EC001423

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	43201404

Approvals

Approvals

Termination board - IBS S7 300 DSC-T - 2719975

Approvals

Approvals

cULus Recognized

Ex Approvals

Approvals submitted

Approval details

cULus Recognized ᴄ**Ꞁ**ᴜs

Below is a list of articles with direct links to our shop Electric Automation Network where you can see:

- Quote per purchase volume in real time.
- Online documentation and datasheets of all products.
- Estimated delivery time enquiry in real time.
- Logistics systems for the shipment of materials almost anywhere in the world.
- Purchasing management, order record and tracking of shipments.

To access the product, click on the green button.

Product	Code	Reference	Product link
Termination board for Siemens SIMATIC® S7 300 PLCs	2719975	IBS S7 300 DSC-T	Buy on EAN