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Termination board - IBS S7 400 DSC/I-T - 2719962

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Termination board for Siemens SIMATIC® S7 400 PLCs, with electrical isolation

Product Description

INTERBUS controller boards for Siemens SIMATIC S7-400 PLCs

The IBS S7 400 DSC/I-T board connects the SIMATIC S7 400 PLC with INTERBUS.

After power-up the INTERBUS configuration is read in automatically and started with the specified parameters. The system-specific parameterization of the bus system and the controller board is undertaken using the easy-to-use IBS CMD software and then stored in a flash memory card.

The following range of functions is supported:

- Preprocessing of process data
- Synchronous operating modes
- Parameterization of alternative and changing bus segments
- Parameterization using CMD
- Startup using "Plug & Play" technology

For displaying the comprehensive INTERBUS system diagnostics, the controller board is equipped with a four-line LC display in which operating and error states are shown in plain text.

The INTERBUS system is controlled using a function register which triggers control functions (switching devices on and off or bypassing devices, clearing the diagnostics display) simply by setting outputs.

Simple operation and efficient diagnostics facilitate startup and increase the availability of the system.

The base of the housing can be concealed behind a cover once parameterization and startup of the controller board have been completed.

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 |
| Weight per Piece (excluding packing) | 1,026.500 g |
| Custom tariff number | 85389091 |
| Country of origin | Germany |

Termination board - IBS S7 400 DSC/I-T - 2719962

Technical data

Note

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

Dimensions

| | |
|--------|--------|
| Width | 50 mm |
| Height | 290 mm |
| Depth | 210 mm |

Ambient conditions

| | |
|--|---|
| Degree of protection | IP20 |
| Ambient temperature (operation) | 0 °C ... 60 °C |
| 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 sea level) |
| Air pressure (storage/transport) | 660 hPa ... 1080 kPa (up to 3500 m above sea level) |

Control system

| | |
|--------------------|-----------------------------|
| Control system | SIMATIC® S7-400 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 1.00 onwards |
| Diagnostics tool | DIAG+ from version 1.0x |
| Programming tool | STEP 7 from version 5.x |

Power supply

| | |
|-----------------------------|---------------------|
| Power supply connection | Via SIMATIC I/O bus |
| Typical current consumption | 0.9 A |
| Supply voltage | 5 V DC |
| Power dissipation | max. 4.5 W |

General

| | |
|--------|--------|
| Weight | 1026 g |
|--------|--------|

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Technical data

General

| | |
|--------|---------|
| Format | 2 slots |
|--------|---------|

Data interfaces

| | |
|--------------------|--|
| Interface | Control system |
| Connection method | SIMATIC® S7-400 P-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 | Are supported |

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 |
| eCl@ss 9.0 | 27242208 |

ETIM

| | |
|----------|----------|
| ETIM 2.0 | EC001423 |
| ETIM 3.0 | EC001423 |
| ETIM 4.0 | EC001423 |
| ETIM 5.0 | EC001423 |

Termination board - IBS S7 400 DSC/I-T - 2719962

Classifications

UNSPSC

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

Approvals


Approvals


Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized


Ex Approvals

Approval details

| | |
|---|---------|
| UL Recognized  http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 140324 | |
| Nominal current IN | 0.415 A |
| Nominal voltage UN | 5 V |

| | |
|--|---------|
| cUL Recognized  http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 140324 | |
| Nominal current IN | 0.415 A |
| Nominal voltage UN | 5 V |

| |
|-------------------|
| EAC EAC-Zulassung |
|-------------------|

| |
|--|
| cULus Recognized  http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm |
|--|

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Accessories

Accessories

Configuration and diagnostics

Software - DIAG+ - 2730307



Diag+, diagnostics software, for INTERBUS networks, area of application: Startup, maintenance and, for example, for integration in control desk software, can be integrated in 32 bit applications (ActiveX-capable)

Software - CONFIG+ OEM - 2700779



Config+ project license, for configuration and diagnostics of an INTERBUS system. Please enter the project number in the configuration field or get in touch with your contact person in our sales organization.

Software - CONFIG+ DEMO - 2868046



Config+ demo version with restricted range of function (it is not possible to save projects)

Software - CONFIG+ - 2868059



Config+ full version for configuration and diagnostics of an INTERBUS system

Software - CONFIG+ CPY - 2868062



The Config+ copy license enables the installation and parallel use of the Config+ software on multiple workstations. A single-user full license is also required. It is a workstation license

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Accessories

Software - IBS CMD SWT G4 - 2721439



Network configuration software for INTERBUS Generation 4

Software - IBS CMD SWT G4 E - 2721442



Network configuration software for INTERBUS Generation 4

Device parameterization

Software - AX+ BASIC - 2985068



Software CD for FDT container for integrating device DTMs (free download)

Software - AX DTM LIB - 2988065



DTM library

Parameterization memory

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Accessories

Memory - IBS MC FLASH 2MB - 2729389



Program and configuration memory, 2 Mbyte

Programming cable

Connecting cable - IBS PRG CAB - 2806862



Connection cable, to connect the controller boards to the PC (RS-232-C), length 3 m

Spare parts

Memory - IBS MC FLASH 2MB - 2729389



Program and configuration memory, 2 Mbyte
