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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

RoHS   **INTERBUS**

Key Commercial Data

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

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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

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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