INTERBUS PT

INTERBUS PT	Order ref.	E82ZAFIC010
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The INTERBUS function module is used to interface the frequency inverter directly with the remote bus. The DRIVE-COM profile 20 is supported for this connection. DIP switches are used to set the process data volume, PCP communication and the last physical bus device. Plug-in spring-clamp terminals enable cable cross-sections of up to

1.5 mm² to be connected quickly and easily without the need for ferrules.

Due to the plugged-on spring-clamp terminal strip, the function module juts approx. 15 mm of the front panel of the frequency inverter. The module is also available in a basic version without plug-in terminal.

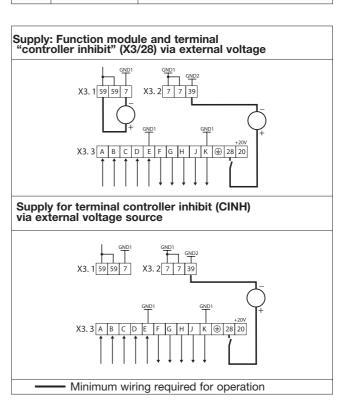
Terminal assignment

X3.1/	Name	Function	
59		External DC supply for function module (+ 24 V DC ± 10%, looping through of external supply for function module possible)	
7	GND1	Reference potential for X3.3/20	
X3.2/			
7	GND1	Reference potential for X3.3/20	
39	GND2	Reference potential for controller inhibit (CINH) at X3.3/28	
X3.3/			
Α	/DO1		
В	DO1	RS485 data cable (incoming)	
С	/DI1		
D	/DI1		

X3.3/	Name	Function	
Е	GND3	Reference potential for incoming data cable	
F	/DO2	RS485 data cable (outgoing)	
G	DO2		
Н	/DI2		
J	DI2		
K	GND1	Reference potential for outgoing data cable	
У	PES	Additional HF shield termination	
28	CINH	Controller inhibit • Start = HIGH (+12 V +30 V) • Stop = LOW (0 +3 V)	
20		DC voltage source for internal +20 V (reference: GND1)	

Supply: Controller inhibit terminal (X3/28) via internal voltage supply X3/20 X3. 1 59 59 7 X3. 2 7 7 39 AND CAND 1 CAN





INTERBUS PT

General data and application conditions

Communication medium	RS485	
Drive profile	DRIVECOM profile "Drive Technology 20" or Lenze device control	
Baud rate [kBit/s]	500	
INTERBUS device	Slave	
Network topology	Ring (go and return lines in the same bus cable)	
Process data words (PCD) (16 bits)	1 Word 6 words	
Parameter data words (PCP) (16 bits)	0/1 word	
INTERBUS code (ID code)	Decimal: 227 or 3 (without PCP); hex: E3 or 3 (without PCP)	
Max. PDU length	64 bytes	
Supported PCP services	Initiate, Abort, Status, Identify, Get-OV-Long, Read, Write	
Number of devices	Depends on the host system (I/O range), max. 63	
Max. distance between 2 devices	400 m	
Communication time	 Sum of scan time and processing time in the fieldbus devices. The times are independent of one another. Processing time in the controller: Parameter data and process data are independent of each other Parameter data (PCP): approx. 30 ms +20 ms tolerance Process data: approx. 3 ms +2 ms tolerance 	
Electrical connection	Push-on terminal strip with spring-clamp connection	
Connection options	Rigid: 1.5 mm ² (AWG 16)	
	Flexible:	
	1.5 mm ² (AWG 16) without ferrules	
	1.5 mm ² (AWG 16) with ferrules without plastic sleeve	
	0.5 mm ² (AWG 20) with ferrules with plastic sleeve	
DC supply for function module	Internal Inter	
Insulation voltage to reference earth/PE	50 V AC	
Ambient temperature	Operation: -20 +60°C Transport: -25 +70°C Storage: -25 +60°C	
Climatic conditions	Class 3K3 to EN 50178 (without condensation, average relative humidity 85%)	

Note:

Two LEDs are located on the function module to indicate the communication status.

Important:

The internal or external DC supply to the controller inhibit terminal (X3/28) is provided **independently** of the internal or external DC supply to the function module.

Tip:

The external DC supply to the function module is provided via terminals X3/59 and X3/7 (see connection diagrams above).

