X20BB53

1 General information

1.1 Other applicable documents

For additional and supplementary information, see the following documents.

Other applicable documents

Document name	Title
MAX20	X20 System user's manual
MAEMV	Installation / EMC guide

1.2 Order data

Order number	Short description	Figure
	System modules for Compact-S PLCs	
X20BB53	X20 Compact-S bus base, for Compact-S PLC and Compact-S PLC power supply module, base for integrated RS485 interface, X20 connection, X20 end cover plates (left and right) X20AC0SL1/X20AC0SR1 included	

Table 1: X20BB53 - Order data

1.3 Module description

The bus base is the basis for all X20 Compact-S controllers.

The left and right end cover plates are included in delivery.

- Base for all X20 Compact-S controllers
- RS485 connection
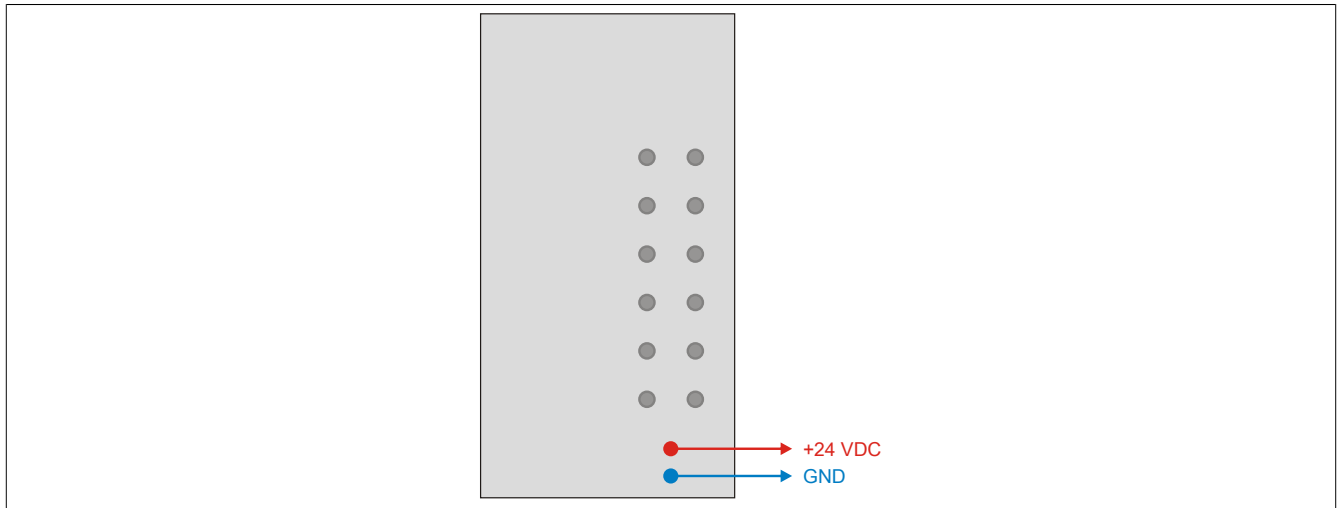- Integrated terminating resistor
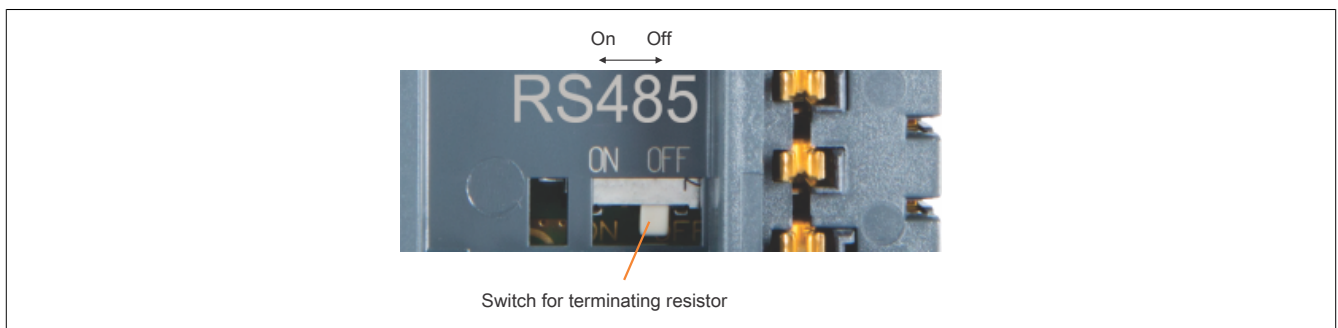
2 Technical description

2.1 Technical data

Order number	X20BB53
Short description	
Bus module	X20 Compact-S PLC base - backplane for Compact-S PLC and Compact-S PLC power supply module
Interfaces	1x RS485 connection
General information	
B&R ID code	0xF4D1
Power consumption	
Bus	0.55 W
Internal I/O	-
Additional power dissipation caused by actuators (resistive) [W]	-
Certifications	
CE	Yes
UKCA	Yes
EAC	Yes
I/O power supply	
Nominal voltage	24 VDC
Permissible contact load	10 A
Electrical properties	
Electrical isolation	Bus not isolated from RS485
Operating conditions	
Mounting orientation	
Horizontal	Yes
Vertical	Yes
Installation elevation above sea level	
0 to 2000 m	No limitation
>2000 m	Reduction of ambient temperature by 0.5°C per 100 m
Degree of protection per EN 60529	IP20
Ambient conditions	
Temperature	
Operation	
Horizontal mounting orientation	-25 to 60°C
Vertical mounting orientation	-25 to 50°C
Derating	-
Storage	-40 to 85°C
Transport	-40 to 85°C
Relative humidity	
Operation	5 to 95%, non-condensing
Storage	5 to 95%, non-condensing
Transport	5 to 95%, non-condensing
Mechanical properties	
Note	Left and right X20 end cover plates included in delivery
Pitch	37.5$^{+0.2}$ mm

Table 2: X20BB53 - Technical data

2.2 Voltage routing

2.3 Terminating resistor for RS485 interface

Switch for terminating resistor

A terminating resistor for the RS485 interface is already integrated on the bus base. The terminating resistor is switched on or off with a switch. An enabled terminating resistor is indicated on the power supply module by LED "T".

2.4 System requirements

The bus base is equipped with an RS485 interface. The following system requirements must be met to use this RS485 interface:

- Automation Studio 4.11 or higher
- Automation Runtime B4.92 or higher