

X20(c)BB57

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 Coated modules

Coated modules are X20 modules with a protective coating for the electronics component. This coating protects X20c modules from condensation and corrosive gases.

The modules' electronics are fully compatible with the corresponding X20 modules.

For simplification purposes, only images and module IDs of uncoated modules are used in this data sheet.

The coating has been certified according to the following standards:

- Condensation: BMW GS 95011-4, 2x 1 cycle
- Corrosive gas: EN 60068-2-60, method 4, exposure 21 days



1.3 Order data

Order number	Short description	Figure
	System modules for Compact-S PLCs	
X20BB57	X20 Compact-S bus base, for Compact-S PLC and Compact-S PLC power supply module, base for integrated RS232 and CAN bus interface, X20 connection, X20 end cover plates (left and right) X20AC0SL1/X20AC0SR1 included	
X20cBB57	X20c Compact-S bus base, coated, for Compact-S PLC and Compact-S PLC power supply module, base for integrated RS232 and CAN bus interface, X20 connection, X20 end cover plates (left and right) X20AC0SL1/X20AC0SR1 included	

Table 1: X20BB57, X20cBB57 - Order data

1.4 Module description

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

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

- Base for all X20 Compact-S controllers
- RS232 connection
- CAN bus connection
- Integrated terminating resistor for CAN bus

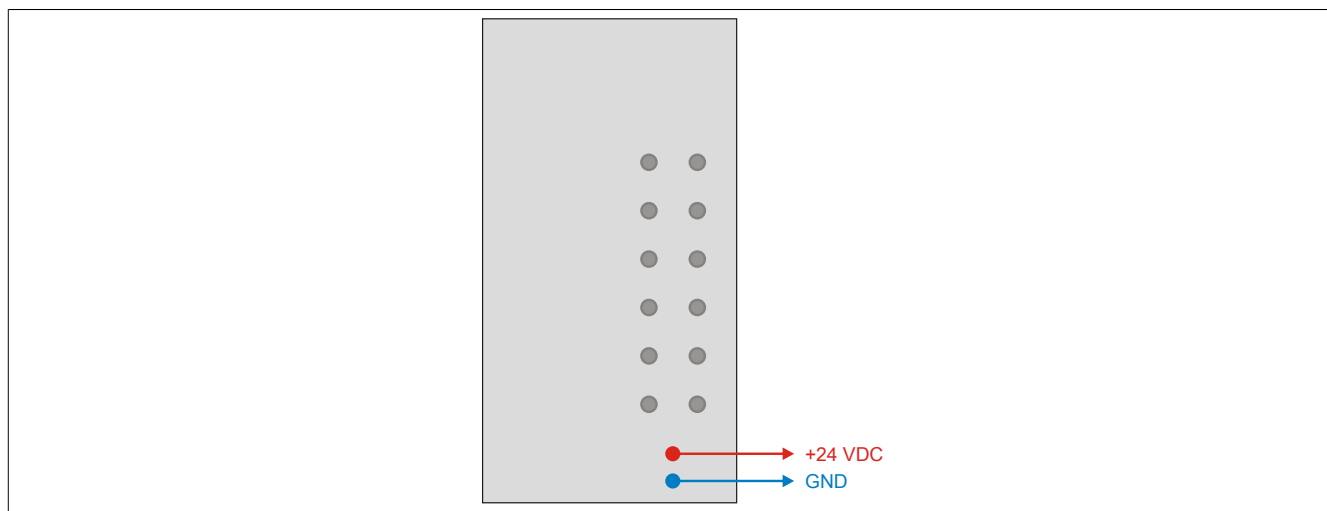
2 Technical description

2.1 Technical data

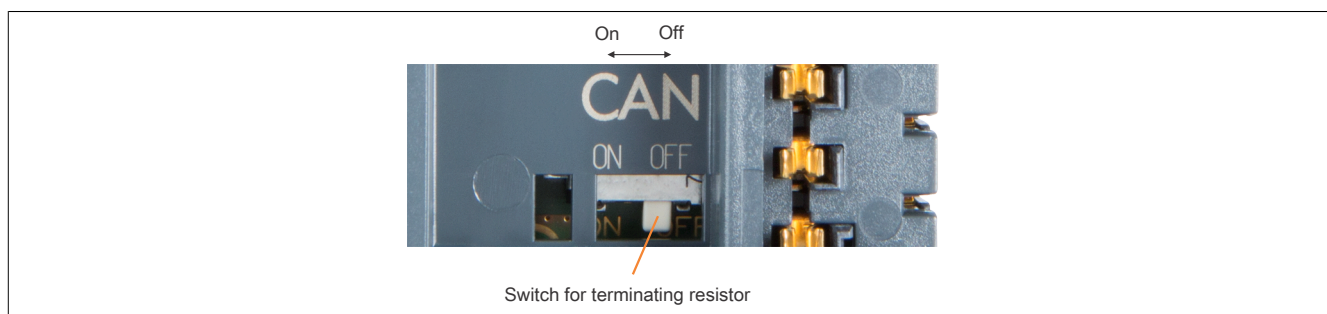
Order number	X20BB57	X20cBB57
Short description		
Bus module	X20 Compact-S PLC base - backplane for Compact-S PLC and Compact-S PLC power supply module	
Interfaces	1x RS232 connection, 1x CAN bus connection	
General information		
B&R ID code	0xEB09	0xA457
Power consumption		
Bus	0.55 W	
Internal I/O	-	
Additional power dissipation caused by actuators (resistive) [W]	-	
Certifications		
CE	Yes	
UKCA	Yes	
UL	cULus E115267 Industrial control equipment	
DNV	Temperature: B (0 to 55°C) Humidity: B (up to 100%) Vibration: B (4 g) EMC: B (bridge and open deck)	
LR	ENV1	
KR	Yes	
ABS	Yes	
BV	EC33B Temperature: 5 - 55°C Vibration: 4 g EMC: Bridge and open deck	
EAC	Yes	-
I/O power supply		
Nominal voltage	24 VDC	
Permissible contact load	10 A	
Electrical properties		
Electrical isolation	Bus, CAN bus and RS232 not isolated from each other	
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	Up to 100%, 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: X20BB57, X20cBB57 - Technical data

2.2 Voltage routing



2.3 Terminating resistor for CAN bus



The bus module has an integrated CAN bus terminating resistor. 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".