X20(c)BM12

1 General information

The bus module serves as the base for all 240 VAC X20 I/O modules. The internal I/O supply is interconnected.

- · Bus module for 240 VAC I/O modules
- · The internal I/O supply is interconnected
- 240 V coding for bus module, electronic module and terminal block

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







2.1 Starting temperature

The starting temperature describes the minimum permissible ambient temperature when the power is switched off at the time the coated module is switched on. This is permitted to be as low as -40°C. During operation, the conditions as specified in the technical data continue to apply.

Information:

It is important to absolutely ensure that there is no forced cooling by air currents in a closed control cabinet, for example using a fan or ventilation slots.

3 Order data

Model number	Short description	Figure
	Bus modules	
X20BM12	X20 bus module, 240 VAC keyed, internal I/O power supply connected through	
X20cBM12	X20 bus module, coated, 240 VAC keyed, internal I/O power supply connected through	

Table 1: X20BM12, X20cBM12 - Order data

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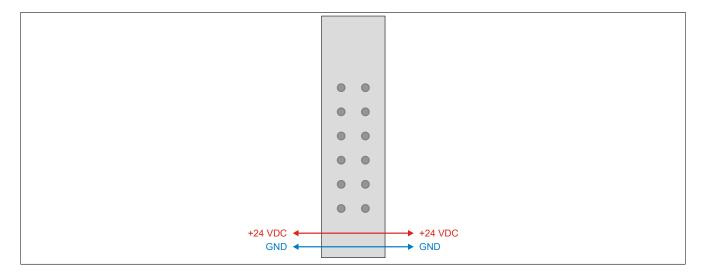
4 Technical data

Model number	X20BM12	X20cBM12
Short description		
Bus module	Bus module, 240 VAC keyed, intere	nal I/O power supply connected through
General information		
Power consumption		
Bus	0.13 W	
Internal I/O	•	
Additional power dissipation caused by actuators (resistive) [W]		-
Certifications		
CE	Yes	
ATEX	Zone 2, II 3G Ex nA nC IIA T5 Gc IP20, Ta (see X20 user's manual) FTZÚ 09 ATEX 0083X	
UL	cULus E115267 Industrial control equipment	
HazLoc	cCSAus 244665 Process control equipment for hazardous locations Class I, Division 2, Groups ABCD, T5	
DNV GL	Temperature: B (0 - 55°C) Humidity: B (up to 100%) Vibration: B (4 g) EMC: B (bridge and open deck)	
LR	ENV1	
KR	Yes	
EAC		Yes
KC	Yes	-
I/O power supply		
Nominal voltage	24 VDC	
Permissible contact load	10 A	
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		-
Starting temperature	-	Yes, -40°C
Storage	-40 to 85°C	
Transport	-40 to 85°C	
Relative humidity	•	
Operation	5 to 95%, non-condensing	Up to 100%, condensing
Storage	<u> </u>	non-condensing
Transport	5 to 95%, non-condensing	
Mechanical properties		
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Table 2: X20BM12, X20cBM12 - Technical data

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5 Voltage routing



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