X20(c)BM31

1 General information

The bus module serves as a basis for all double-width X20 I/O modules. The internal I/O supply is interconnected.

- · Bus module for double-width I/O modules
- · The internal I/O supply is interconnected

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 -40°C 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	
X20BM31	X20 bus module for double-width modules, 24 VDC keyed, internal I/O supply continuous	
X20cBM31	X20 bus module, coated, for double-width modules, 24 VDC keyed, internal I/O supply continuous	

Table 1: X20BM31, X20cBM31 - Order data

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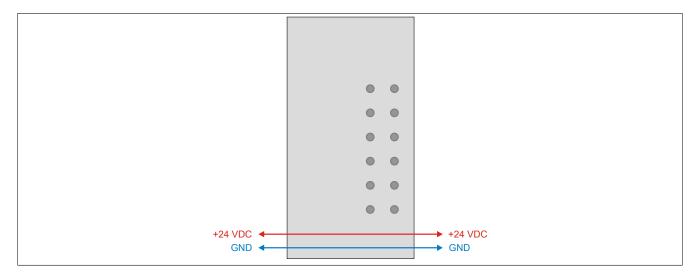
4 Technical data

Model number	X20BM31	X20cBM31
Short description		
Bus module	Bus module for double-width modules, 24 VDC keyed, internal I/O supply continuous	
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		rol equipment us locations
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 limitations	
>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	10.10	
Operation	5 to 95%, non-condensing	Up to 100%, condensing
Storage	5 to 95%, nor	
Transport	5 to 95%, non-condensing	
Mechanical properties	5 to 95 %, Hot	
Pitch	25+0.2	2 mm
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Table 2: X20BM31, X20cBM31 - Technical data

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5 Voltage routing



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