

X20(c)MK0223

The X20(c)MK0223 is the storage medium for the SafeLOGIC controller of the X20SL81xx or X20cSL81xx series for the SafeDESIGNER application and SafeOPTION configurations.

The range of functions available for the application is defined by the technology licenses in Automation Runtime.

For additional information, see section "Licensing" in Automation Help.

No license information is stored on the SafeKEY.

1 Coated modules

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

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

Information:

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

Contrary to the specifications for X20 system modules without safety certification and despite the tests performed, X20 safety modules are **NOT suited for applications with corrosive gases (EN 60068-2-60)!**



2 Order data

Order number	Short description	Figure
	Accessories	
X20MK0223	X20 SafeKEY, 8 MB, for the X20SL81xx series, exclusively for mapp Safety, range of license functions determined via a package-based licensing model or via Technology Guarding in Automation Runtime	
X20cMK0223	X20 SafeKEY, coated, 8 MB, for the X20SL81xx series, exclusively for mapp Safety, range of license functions determined via a package-based licensing model or via Technology Guarding in Automation Runtime	

Table 1: X20MK0223, X20cMK0223 - Order data

3 Technical data

Order number	X20MK0223		X20cMK0223
General information			
Memory size	8 MB		
Application memory			
Guaranteed erase/write cycles	100,000		
Certifications			
CE	Yes		
UL	cULus E115267 Industrial control equipment		
DNV	Temperature: B (0 - 55°C) Humidity: B (up to 100%) Vibration: B (4 g) EMC: B (bridge and open deck)		
LR	ENV1		
KR	Yes		
ABS	Yes		
Operating conditions			
Mounting orientation			
Horizontal	Yes		
Vertical	Yes		
Installation elevation above sea level	0 to 2000 m, no limitation		
Degree of protection per EN 60529	IP20		
Ambient conditions			
Temperature			
Operation			
Horizontal mounting orientation	0 to 60°C		-25 to 60°C
Vertical mounting orientation	0 to 60°C		-25 to 60°C
Derating	-		
Storage	-40 to 85°C		
Transport	-40 to 85°C		

Table 2: X20MK0223, X20cMK0223 - Technical data

4 Version history

Version	Date	Comment
2.14	May 2022	<ul style="list-style-type: none"> Updated chapter 2 "Order data". Chapter 3 "Technical data": Updated DNV certification. Updated chapter 5 "Declaration of conformity".
2.07	August 2020	Chapter 3 "Technical data": Updated certifications.
2.06	May 2020	<ul style="list-style-type: none"> Chapter 3 "Technical data": <ul style="list-style-type: none"> Updated certifications. Coated module: Updated operating temperature. Editorial changes.
2.04	November 2019	Chapter 3 "Technical data": Updated certifications.
2.03	August 2019	Editorial changes.
2.02	May 2019	First edition for mapp Safety

Table 3: Version history

5 Declaration of conformity

This document was originally written in the German language. The German edition therefore represents the original documentation in accordance with Machinery Directive 2006/42/EC. Documents in other languages should be interpreted as translations of the original documentation.

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Commercial register number: FN 111651 v

Commercial registry: Regional court Ried im Innkreis

UID number: ATU62367156

Legal structure: Limited liability company

Corporate headquarters: Municipality of Eggelsberg (Upper Austria)

Declarations of conformity for B&R products are available for download on the B&R website (www.br-automation.com).