

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 detailed information, see section "Licensing" of 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

Model number	Short description	Figure
	Accessories	
X20MK0223	X20 SafeKEY, 8 MB, for the X20SL81xx series, exclusively for mapp Safety, range of license functions determined 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 Technology Guarding in Automation Runtime	

Table 1: X20MK0223, X20cMK0223 - Order data

3 Technical data

Model number	X20MK0223	X20cMK0223
General information		
Memory size	8 MB	
Application memory		
Guaranteed erase/write cycles	100,000	
Certifications		
CE	Yes	
UL	cULus E115267	
DNV GL	Industrial control equipment Temperature: B (0 - 55°C) Humidity: B (up to 100%) Vibration: B (4 g) EMC: B (bridge and open deck)	
KR	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	-40 to 60°C
Vertical mounting orientation	0 to 60°C	-40 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
2.04	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 EC declaration of conformity

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

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The place of jurisdiction, in accordance with article 17 of the European Convention on Courts of Jurisdiction and Enforcement, is A-4910

Ried im Innkreis, Austria, commercial register court: Ried im Innkreis, Austria

Commercial register number: FN 111651 v.

The place of fulfillment in accordance with article 5 of the European Convention on Courts of Jurisdiction and Enforcement is A-5142 Eggelsberg, Austria

VATIN: ATU62367156

The EC declarations of conformity for B&R products can be downloaded from the B&R website www.br-automation.com.