



Rail

List for tracking the version releases of components for safety Cutoff of Potential Groups:
Liste zur Verfolgung der Versionsfreigaben der Komponenten zur sicheren Abschaltung von
Potentialbaugruppen:

Manufacturer / Hersteller

Testing body / Prüfstelle

B&R Industrial Automation GmbH**TÜV SÜD Rail GmbH**

**B&R Strasse 1
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**Barthstrasse 16
80339 München, Germany**

The following modules in the X20, X67 and 7XV systems are allowed to be used in the safety cutoff of potential groups. Unless otherwise stated the installation elevation above sea level is max. 4000m.

1.1 X20 Modules

Product group	Description		since Rev.	Capacitance [µF]
Bus modules	X20BM01	internal I/O supply, providing separation to left side	I0	-
	X20BM05	Power supply bus module with node number switch, 24 VDC keyed, internal I/O supply interrupted to the left	E0	-
	X20BM11	24 V, coded, internal I/O supply, connected through	J0	-
	X20BM15	Bus module with node number switch, 24 VDC keyed, internal I/O supply continuous	F0	-
	X20BM23	24 V, Safety coded, internal I/O supply, providing separation to left side	D0	-
	X20BM26	24 V, Safety coded, internal I/O supply, providing separation to left side, manual allocation of node numbers	C2	-
	X20BM31	Bus module for double-width modules, 24 VDC keyed, internal I/O supply continuous	D0	-
	X20BB80	X20 bus base, for X20 base module (BC, HB, etc.) and X20 power supply module	E0	.. ¹
Bus Controller	X20BC0063	X20 bus controller, 1 PROFIBUS DP interface	I0	.. ¹
Supply modules	X20PS2100	internal I/O supply	F0	30
	X20PS2110	internal I/O supply, integrated micro fuse	E0	30
	X20PS3300 ³	X20 power supply module, for X2X Link and internal I/O power supply	E0	30
	X20PS9400 ³	X20 power supply module, for bus controller and internal I/O power supply	D0	30
Digital output	X20DO2322	2 digital outputs, 24 V DC, 0.5 A, Source, 3-wire-technology	G0	30
	X20DO4322	4 digital outputs, 24 V DC, 0.5 A, Source, 2- wire-technology	G0	30
	X20DO4332	4 digital outputs, 24 V DC, 2 A, Source, 3- wire-technology	H0	120
	X20DO4332-1	4 digital outputs, 24 V DC, 2 A, Source, 3- wire-technology	C0	120
	X20DO6321	6 digital outputs, 24 V DC, 0.5 A, Sink, 1- or 2- wire-technology	H0	100
	X20DO6322	6 digital outputs, 24 V DC, 0.5 A, Source, 2- wire-technology	I0	50
	X20DO8232	8 digital outputs, 12 V DC, 2A, Source, 1- wire-technology	E0	100
	X20DO8322	8 digital outputs, 24 V DC, 0.5 A, Source, 1- wire-technology	E0	100
	X20DO8332	8 digital outputs, 24 V DC, 2 A, Source, 1- wire-technology, Supply directly at the module	G0	100
	X20DO9321	12 digital outputs, 24 V DC, 0.5 A, Sink, 1- wire-technology	H0	100
	X20DO9322	12 digital outputs, 24 V DC, 0.5 A, Source, 1- wire-technology	I0	100
	X20DOF322	16 digital outputs, 24 V DC, 0.5 A, Source, 1- wire-technology	C3	120
Counting and position modules	X20DS1119	3 digital outputs, 5 V DC, Sink/Source	G3	70
	X20DS1319	4 digital outputs, 24 V DC, 0.1A, Sink/Source	F0	70
	X20DS4389	4 digital outputs, 24 V DC, 0.1A, Sink/Source	D0	70
Analog output	X20AO2622	2 analog outputs, ± 10 V / 0..20 mA, 12 Bit resolution	L0	30

¹ This module is not part of the potential group, is not cut off and has no impact on the cutoff time



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Others	X20AO2632	2 analog outputs, ± 10 V / 0..20 mA, 16 Bit resolution	K0	30
	X20AO4622	4 analog outputs, ± 10V / 0...20 mA, 12 Bit resolution	L0	30
	X20AO4632	4 analog outputs, ± 10 V / 0..20 mA, 16 Bit resolution	M0	30
	X20DC2395	Counter module, 2 PWM outputs, 24 V DC, 0.1A, Sink/Source	H0	70
	X20DC4395	Counter module, 4 PWM outputs, 24 V DC, 0.1A, Sink/Source	I0	70
	X20CM8323	8 digital outputs, 24 V DC, 0.6A, Sink, 1- wire-technology	G0	50
Drive modules	X20DM9324	8 digital inputs 24 VDC for 1-wire connections, 4 digital outputs 24 VDC for 1-wire connections	F0	100
	X20MM2436	2 H-bridge outputs, max.3.5A, Sink, 1- wire-technology	E6	300
	X20SM1426	1 step motor, 24 V DC, max. 1.2A	E6	200
	X20SM1436	1 step motor, max. 3.5A	E3	300
	X20SM1436-1	1 full bridge for controlling stepper motors	E0	300
	X20SM1444-1	1 full bridge for controlling stepper motors	C0	700
	X20SM1446-1	1 full bridge for controlling stepper motors	D0	300
	X20MM3332	3 H-bridge outputs, max.3A	C0	200
	X20MM4331	4 H-bridge outputs, max.3A	C0	200
	X20MM4455	4 H-bridge outputs, max.6A, 12 Inputs 5V Sink, 1- wire-technology	C0	1700
	X20MM4456	4 H-bridge outputs, max.6A, 12 Inputs 5V Sink, 1- wire-technology	E3	1700

1.2 X67 Modules

Product group	Description		since Rev.	Capacitance [µF]
Digital output and digital mixed modules	X67DO1332	8 digital output, 24 V DC, 2 A, Source, M8	L0	200
	X67DO9332.L12	8 digital outputs, 24 V DC, 2 A, Source, M12	G0	300
	X67DM1321	8 digital channels, config. as I/O, in = Sink, out = Source	O0	200
	X67DM9321	8 digital channels, config. as I/O, in = Sink, out = Source	J0	200
	X67DM1321.L08	16 digital channels, config. as I/O, in = Sink, out = Source	L0	300
	X67DM1321.L12	16 digital channels, config. as I/O, in = Sink, out = Source	K0	200
	X67DM9331.L12	8 digital channels, config. as I/O, in = Sink, out = Source	I0	300
Counting and position modules	X67DC1198	Counter module, 2 digital channels, config. As I/O, encoder	L0	200
	X67DC2322 ³	Counter module, 2 digital inputs (Sink), 2 digital outputs (each 0,5 A)	C0	120
Analog output and analog mixed modules	X67AO1223	4 analog outputs, each ± 10 V	H0	1400
	X67AO1323	4 analog outputs, each 0-20 mA	H0	1400
	X67AM1223	2 analog inputs, 2 analog outputs, each ± 10 V	K0	1400
	X67AM1323	2 analog inputs, 2 analog outputs, each ± 0-20 mA	M0	1400
Valve control module	X67DV1311.L08	16 digital outputs, FET positive switching, 0.1 A, 16 digital inputs Sink, M8	H0	300
	X67DV1311.L12	16 digital outputs, FET positive switching, 0.1 A, 16 digital inputs Sink, M16	H0	300
Drive modules	X67SM2436	2 step motors, max. 5 A	F0	700
	X67SM2446-1 ²	2-channel stepper motor module 4 A, 48 VDC, 6 inputs, sink	D0	500
	X67SM4320 ²	4 step motors, max. 1 A	D6	1100

² Installation elevation above sea level: max. 2000m



Rail

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	X67MM2436	2 H-bridge outputs, max.5 A, 2x3 Inputs Sink, 1- wire- technology	E0	700
Supply module	X67PS1300	Electrically isolated X2X Link power supply	F0	1100



Rail

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1.3 Hardware for 7XV Modules

Product group	Description		since Rev.	Capacitance [µF]
Valve connection IP20	7XV108.50-11 ³	8 digital outputs, 24 VDC, 0.1 A Source	C0	200
	7XV108.50-12 ³	8 digital outputs, 24 VDC, 0.1 A Source	D0	200
	7XV116.50-01	16 digital outputs, 24 VDC, 0.1 A Source	E0	500
	7XV116.50-11 ³	16 digital outputs, 24 VDC, 0.1 A Source	D0	200
	7XV116.50-12 ³	16 digital outputs, 24 VDC, 0.1 A Source	D0	200
	7XV124.50-11 ³	24 digital outputs, 24 VDC, 0.1 A Source	F0	200
	7XV124.50-12 ³	24 digital outputs, 24 VDC, 0.1 A Source	F0	200
Valve connection IP67	7XV108.50-51	8 digital outputs, 24 VDC, 0.1 A Source	E0	600
	7XV108.50-62 ³	8 digital outputs, 24 VDC, 0.1 A Source	F0	600
	7XV116.50-51	16 digital outputs, 24 VDC, 0.1 A Source	E0	600
	7XV116.50-62 ³	16 digital outputs, 24 VDC, 0.1 A Source	F0	600
	7XV124.50-51	24 digital outputs, 24 VDC, 0.1 A Source	E0	600
	7XV124.50-61 ³	24 digital outputs, 24 VDC, 0.1 A Source	F0	600
	7XV124.50-62 ³	24 digital outputs, 24 VDC, 0.1 A Source	F0	600

	Release by Test Body: Freigabe Prüfstelle:	Release by Certification Body: Freigabe Zertifizierstelle:	Release by Manufacturer: Freigabe Hersteller:
Date: Datum:	Klaus	Digital	Dietmar
Signature: Unterschrift:	Leupold Digital unterschrieben von Klaus Leupold Datum: 2023.11.21 14:15:46 +01'00'	Christian Dirmeyer Digital unterschrieben von Christian Dirmeyer Datum: 2023.11.22 08:51:22 +01'00'	Manfred Kuecher Digital unterschrieben von Manfred Kuecher Datum: 2023.11.29 08:34:38 +01'00'

³ Installation elevation above sea level: max. 3000m