



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:

Rail

Manufacturer / Hersteller

Testing body / Prüfstelle

Bernecker+Rainer
Industrie-Elektronik Ges.m.b.H.
B&R Strasse 1
5142 Eggelsberg, Austria

TÜV SÜD Rail GmbH
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.

1.1 X20 Modules

Product group	Description	since Rev.	Group ¹	
Bus modules	X20BM01	internal I/O supply, providing separation to left side	D0	1
	X20BM11	24 V, coded, internal I/O supply, , connected through	D0	1
	X20BM23	24 V, Safety coded, internal I/O supply, providing separation to left side	B0	1
	X20BM26	24 V, Safety coded, internal I/O supply, providing separation to left side, manual allocation of node numbers	B0	1
	X20BB80	X20 bus base, for X20 base module (BC, HB, etc.) and X20 power supply module	D0	- ²
Bus Controller	X20BC0063	X20 bus controller, 1 PROFIBUS DP interface	B0	- ²
Supply modules	X20PS2100	internal I/O supply	F0	1
	X20PS2110	internal I/O supply, integrated micro fuse	C0	1
	X20PS3300	X20 power supply module, for X2X Link and internal I/O power supply	D0	1
	X20PS9400	X20 power supply module, for bus controller and internal I/O power supply	C0	1
Digital output	X20DO2322	2 digital outputs, 24 V DC, 0.5 A, Source, 3-wire-technology	F0	1
	X20DO4322	4 digital outputs, 24 V DC, 0.5 A, Source, 2- wire-technology	F0	1
	X20DO4332	4 digital outputs, 24 V DC, 2 A, Source, 3- wire-technology	F0	1
	X20DO6321	6 digital outputs, 24 V DC, 0.5 A, Sink, 1- or 2- wire-technology	F0	1
	X20DO6322	6 digital outputs, 24 V DC, 0.5 A, Source, 2- wire-technology	F0	1
	X20DO8232	8 digital outputs, 12 V DC, 2A, Source, 1- wire-technology	E0	1
	X20DO8322	8 digital outputs, 24 V DC, 0.5 A, Source, 1- wire-technology	E0	1
	X20DO8332	8 digital outputs, 24 V DC, 2 A, Source, 1- wire-technology, Supply directly at the module	G0	1
	X20DO9321	12 digital outputs, 24 V DC, 0.5 A, Sink, 1- wire-technology	E0	1
	X20DO9322	12 digital outputs, 24 V DC, 0.5 A, Source, 1- wire-technology	H0	1
X20DOF322	16 digital outputs, 24 V DC, 0.5 A, Source, 1- wire-technology	C0	2	
Counting and position modules	X20DS1119	3 digital outputs, 5 V DC, Sink/Source	F0	1
	X20DS1319	4 digital outputs, 24 V DC, 0.1A, Sink/Source	D0	1
	X20DS4389	4 digital outputs, 24 V DC, 0.1A, Sink/Source	B0	1
Analog output	X20AO2622	2 analog outputs, ± 10 V / 0..20 mA, 12 Bit resolution	H0	1
	X20AO2632	2 analog outputs, ± 10 V / 0..20 mA, 16 Bit resolution	F0	1
	X20AO4622	4 analog outputs, ± 10V / 0..20 mA, 12 Bit resolution	H0	1
	X20AO4632	4 analog outputs, ± 10 V / 0..20 mA, 16 Bit resolution	I0	1
Others	X20DC2395	Counter module, 2 PWM outputs, 24 V DC, 0.1A, Sink/Source	F0	1
	X20DC4395	Counter module, 4 PWM outputs, 24 V DC, 0.1A, Sink/Source	G0	1

¹ Maximum cut off time: Group 1: 500msec, Group 2: 1 sec, Group 3: 3 sec

² 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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	X20CM8323	8 digital outputs, 24 V DC, 0.6A, Sink, 1- wire-technology	F0	1
Drive modules	X20MM2436	2 H-bridge outputs, max.3.5A, Sink, 1- wire-technology	D0	1
	X20SM1426	1 step motor, 24 V DC, max. 1.2A	C0	1
	X20SM1436	1 step motor, max. 3.5A	D0	1
	X20MM3332	3 H-bridge outputs, max.3A	C0	1
	X20MM4331	4 H-bridge outputs, max.3A	C0	1
	X20MM4455	4 H-bridge outputs, max.6A, 12 Inputs 5V Sink, 1- wire-technology	B0	3
	X20MM4456	4 H-bridge outputs, max.6A, 12 Inputs 5V Sink, 1- wire-technology	C0	3

1.2 X67 Modules

Product group	Description	since Rev.	Group	
Digital output and digital mixed modules	X67DO1332	8 digital output, 24 V DC, 2 A, Source, M8	K0	1
	X67DO9332.L12	8 digital outputs, 24 V DC, 2 A, Source, M12	G0	1
	X67DM1321	8 digital channels, config. as I/O, in = Sink, out = Source	O0	1
	X67DM9321	8 digital channels, config. as I/O, in = Sink, out = Source	J0	1
	X67DM1321.L08	16 digital channels, config. as I/O, in = Sink, out = Source	L0	1
	X67DM1321.L12	16 digital channels, config. as I/O, in = Sink, out = Source	K0	1
	X67DM9331.L12	8 digital channels, config. as I/O, in = Sink, out = Source	I0	1
Counting and position modules	X67DC1198	Counter module, 2 digital channels, config. As I/O, encoder	L0	1
	X67DC2322	Counter module, 2 digital inputs (Sink), 2 digital outputs (each 0,5 A)	C0	1
Analog output and analog mixed modules	X67AO1223	4 analog outputs, each ± 10 V	H0	1
	X67AO1323	4 analog outputs, each 0-20 mA	H0	1
	X67AM1223	2 analog inputs, 2 analog outputs, each ± 10 V	M0	1
	X67AM1323	2 analog inputs, 2 analog outputs, each $\pm 0-20$ mA	K0	1
Valve control module	X67DV1311.L08	16 digital outputs, FET positive switching, 0.1 A, 16 digital inputs Sink, M8	H0	1
	X67DV1311.L12	16 digital outputs, FET positive switching, 0.1 A, 16 digital inputs Sink, M16	H0	1
Drive modules	X67SM2436	2 step motors, max. 5 A	E0	1
	X67SM4320	4 step motors, max. 1 A	D0	2
	X67MM2436	2 H-bridge outputs, max.5 A, 2x3 Inputs Sink, 1- wire-technology	D0	2




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1.3 Hardware for 7XV Modules

Product group	Description		since Rev.	Group
Valve connection IP20	7XV108.50-11	8 digital outputs, 24 VDC, 0.1 A Source	C0	1
	7XV108.50-12	8 digital outputs, 24 VDC, 0.1 A Source	C0	1
	7XV116.50-01	16 digital outputs, 24 VDC, 0.1 A Source	E0	1
	7XV116.50-11	16 digital outputs, 24 VDC, 0.1 A Source	D0	1
	7XV116.50-12	16 digital outputs, 24 VDC, 0.1 A Source	D0	1
	7XV124.50-11	24 digital outputs, 24 VDC, 0.1 A Source	F0	1
	7XV124.50-12	24 digital outputs, 24 VDC, 0.1 A Source	F0	1
Valve connection IP67	7XV108.50-51	8 digital outputs, 24 VDC, 0.1 A Source	E0	2
	7XV108.50-62	8 digital outputs, 24 VDC, 0.1 A Source	D0	2
	7XV116.50-51	16 digital outputs, 24 VDC, 0.1 A Source	E0	2
	7XV116.50-62	16 digital outputs, 24 VDC, 0.1 A Source	D0	2
	7XV124.50-51	24 digital outputs, 24 VDC, 0.1 A Source	E0	2
	7XV124.50-61	24 digital outputs, 24 VDC, 0.1 A Source	D0	2
	7XV124.50-62	24 digital outputs, 24 VDC, 0.1 A Source	D0	2

	Release by Test Body: Freigabe Prüfstelle:	Release by Certification Body: Freigabe Zertifizierstelle:	Release by Manufacturer: Freigabe Hersteller:
Date: Datum:	Klaus Leupold Digital unterschrieben von Klaus Leupold Datum: 2017.05.24 08:54:28 +02'00'	Digital unterschrieben von Peter Weiß Datum: 2017.05.24 10:26:24 +02'00'	 24.5.2017
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