

Safety related modules / components

Type Designation	Description	SP Safety Board	MP Control Board	TP/LP Interface- / Power Board	Safety Firmware	Report-No.:	Cert. Status
I95Ax137x1Cxxxxxx I95Ax155x1Cxxxxxx I95Ax175x1Cxxxxxx I95Ax215x1Cxxxxxx I95Ax222x1Cxxxxxx	i950 BF3 – 0.37 kW i950 BF3 – 0.55 kW i950 BF3 – 0.75 kW i950 BF3 – 1.50 kW i950 BF3 – 2.20 kW	E90ABCSC0000VCXP00	E90ABCMC0000xNNP00	E90ABCLC751xxxFP00 E90ABCLC222xxxFP00	V1.0.1.0	968/FSP 1605.00/18	Invalid
					V1.1.1.0**	968/FSP 1605.01/19	Valid
					V1.2.3.0** V1.3.3.0**	968/FSP 1605.02/21	Valid
					V1.3.5.0**	968/FSP 1605.04/22	Valid
					V1.3.6.0**	968/FSP 1605.05/23	Valid
					V1.3.8.11485	968/FSP 1605.06/24	Valid
					V1.4.0.12404	968/FSP 1605.07/25	Valid
					V1.5.0.12760	968/FSP 1605.08/25	Valid
					V2.0.1.13212	968/FSP 1605.09/26	Valid
I95Ax240x1Cxxxxxx	i950 BF3 – 4.00 kW	E90ABCSC0000VCXP00	E90ABCMC0000xNNP00	E90ABCLC402xxxFP00	V1.0.1.0	968/FSP 1605.00/18	Invalid
					V1.1.1.0**	968/FSP 1605.01/19	Valid
					V1.2.3.0** V1.3.3.0**	968/FSP 1605.02/21	Valid
					V1.3.5.0**	968/FSP 1605.04/22	Valid
					V1.3.6.0**	968/FSP 1605.05/23	Valid
					V1.3.8.11485	968/FSP 1605.06/24	Valid
					V1.4.0.12404	968/FSP 1605.07/25	Valid
					V1.5.0.12760	968/FSP 1605.08/25	Valid
					V2.0.1.13212	968/FSP 1605.09/26	Valid

Revision List
referred to on Certificates No.: 01/205/5657.02/26
Product Tested: i950ES: Extended Safety
Safety Functions in i950 Drive Series
Type: I95xxxxxx1Cxxxxxxx

I95Ax240x1Cxxxxxx I95Ax255x1Cxxxxxx I95Ax275x1Cxxxxxx I95Ax311x1Cxxxxxx I95Ax315x1Cxxxxxx	i950 BF5 – 4.00 kW i950 BF5 – 5.50 kW i950 BF5 – 7.50 kW i950 BF5 – 11.0 kW i950 BF5 – 15.0 kW	E90ABCSC0000VCXP00	E90ABCMC0000xNNP00	E90ABCLC113xxxFP00 E90ABCLC153xxxFP00	V1.0.1.0	968/FSP 1605.00/18	<i>Invalid</i>
					V1.1.1.0**	968/FSP 1605.01/19	<i>Valid</i>
					V1.2.3.0** V1.3.3.0**	968/FSP 1605.02/21	<i>Valid</i>
					V1.3.5.0**	968/FSP 1605.04/22	<i>Valid</i>
					V1.3.6.0**	968/FSP 1605.05/23	<i>Valid</i>
					V1.3.8.11485	968/FSP 1605.06/24	<i>Valid</i>
					V1.4.0.12404	968/FSP 1605.07/25	<i>Valid</i>
					V1.5.0.12760	968/FSP 1605.08/25	<i>Valid</i>
I95Ax322x1Cxxxxxx	i950 BF6 – 22 kW	E90ABCSC0000VCXP00	E90ABCMC0000xNNP00	E90ABCTC2234xxNP00	V2.0.1.13212	968/FSP 1605.09/26	<i>Valid</i>
					V1.0.1.0	968/FSP 1605.00/18	<i>Invalid</i>
					V1.1.1.0**	968/FSP 1605.01/19	<i>Valid</i>
					V1.2.3.0** V1.3.3.0**	968/FSP 1605.02/21	<i>Valid</i>
					V1.3.5.0**	968/FSP 1605.04/22	<i>Valid</i>
					V1.3.6.0**	968/FSP 1605.05/23	<i>Valid</i>
					V1.3.8.11485	968/FSP 1605.06/24	<i>Valid</i>
					V1.4.0.12404	968/FSP 1605.07/25	<i>Valid</i>
					V1.5.0.12760	968/FSP 1605.08/25	<i>Valid</i>
					V2.0.1.13212	968/FSP 1605.09/26	<i>Valid</i>

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I95Ax330x1Cxxxxxxx I95Ax345x1Cxxxxxxx	i950 BF7 – 30 kW i950 BF7 – 45 kW	E90ABCSC0000VCXP00	E90ABCMC0000xNNP00	E90ABCTC4534xxNP00 E84ACBLN4534x0P000	V1.0.1.0	968/FSP 1605.00/18	<i>Invalid</i>
					V1.1.1.0**	968/FSP 1605.01/19	<i>Valid</i>
					V1.2.3.0** V1.3.3.0**	968/FSP 1605.02/21	<i>Valid</i>
					V1.3.5.0**	968/FSP 1605.04/22	<i>Valid</i>
					V1.3.6.0**	968/FSP 1605.05/23	<i>Valid</i>
					V1.3.8.11485	968/FSP 1605.06/24	<i>Valid</i>
					V1.4.0.12404	968/FSP 1605.07/25	<i>Valid</i>
					V1.5.0.12760	968/FSP 1605.08/25	<i>Valid</i>
I95Ax355x1Cxxxxxxx I95Ax375x1Cxxxxxxx	i950 BF8 – 55 kW i950 BF8 – 75 kW	E90ABCSC0000VCXP00	E90ABCMC0000xNNP00	E90ABCTC7534xxNP00 E84ACBLN7534x0P000	V2.0.1.13212	968/FSP 1605.09/26	<i>Valid</i>
					V1.0.1.0	968/FSP 1605.00/18	<i>Invalid</i>
					V1.1.1.0**	968/FSP 1605.01/19	<i>Valid</i>
					V1.2.3.0** V1.3.3.0**	968/FSP 1605.02/21	<i>Valid</i>
					V1.3.5.0**	968/FSP 1605.04/22	<i>Valid</i>
					V1.3.6.0**	968/FSP 1605.05/23	<i>Valid</i>
					V1.3.8.11485	968/FSP 1605.06/24	<i>Valid</i>
					V1.4.0.12404	968/FSP 1605.07/25	<i>Valid</i>
					V1.5.0.12760	968/FSP 1605.08/25	<i>Valid</i>
					V2.0.1.13212	968/FSP 1605.09/26	<i>Valid</i>

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I95Ax390x1Cxxxxxxx I95Ax411x1Cxxxxxxx	i950 BF9 – 90 kW i950 BF9 – 110 kW	E90ABCSC0000VCXP00	E90ABCMC0000xNNP00	E90ABCTC1144xxNP00 E50ABCLC1144xNNP00	V1.0.1.0	968/FSP 1605.00/18	Invalid
					V1.1.1.0**	968/FSP 1605.01/19	Valid
					V1.2.3.0** V1.3.3.0**	968/FSP 1605.02/21	Valid
					V1.3.5.0**	968/FSP 1605.04/22	Valid
					V1.3.6.0**	968/FSP 1605.05/23	Valid
					V1.3.8.11485	968/FSP 1605.06/24	Valid
					V1.4.0.12404	968/FSP 1605.07/25	Valid
					V1.5.0.12760 V2.0.1.13212	968/FSP 1605.08/25 968/FSP 1605.09/26	Valid
I95Bx137x1Cxxxxxxx I95Bx155x1Cxxxxxxx I95Bx175x1Cxxxxxxx I95Bx215x1Cxxxxxxx I95Bx222x1Cxxxxxxx	i950 BF3 – 0.37 kW i950 BF3 – 0.55 kW i950 BF3 – 0.75 kW i950 BF3 – 1.50 kW i950 BF3 – 2.20 kW	E90ABCSC0000VCXP00	E90CBCMC0000xNNP01	E90ABCLC751xxxFP00 E90ABCLC222xxxFP00	V2.0.1.13212	968/FSP 1605.09/26	Valid
I95Bx240x1Cxxxxxxx	i950 BF3 – 4.00 kW	E90ABCSC0000VCXP00	E90CBCMC0000xNNP01	E90ABCLC402xxxFP00	V2.0.1.13212	968/FSP 1605.09/26	Valid
I95Bx240x1Cxxxxxxx I95Bx255x1Cxxxxxxx I95Bx275x1Cxxxxxxx I95Bx311x1Cxxxxxxx I95Bx315x1Cxxxxxxx	i950 BF5 – 4.00 kW i950 BF5 – 5.50 kW i950 BF5 – 7.50 kW i950 BF5 – 11.0 kW i950 BF5 – 15.0 kW	E90ABCSC0000VCXP00	E90CBCMC0000xNNP01	E90ABCLC113xxxFP00 E90ABCLC153xxxFP00	V2.0.1.13212	968/FSP 1605.09/26	Valid
I95Bx322x1Cxxxxxxx	i950 BF6 – 22 kW	E90ABCSC0000VCXP00	E90CBCMC0000xNNP01	E90ABCTC2234xxNP00	V2.0.1.13212	968/FSP 1605.09/26	Valid
I95Bx330x1Cxxxxxxx I95Bx345x1Cxxxxxxx	i950 BF7 – 30 kW i950 BF7 – 45 kW	E90ABCSC0000VCXP00	E90CBCMC0000xNNP01	E90ABCTC4534xxNP00 E84ACBLN4534x0P000	V2.0.1.13212	968/FSP 1605.09/26	Valid
I95Bx355x1Cxxxxxxx I95Bx375x1Cxxxxxxx	i950 BF8 – 55 kW i950 BF8 – 75 kW	E90ABCSC0000VCXP00	E90CBCMC0000xNNP01	E90ABCTC7534xxNP00 E84ACBLN7534x0P000	V2.0.1.13212	968/FSP 1605.09/26	Valid

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I95Bx390x1Cxxxxxx I95Bx411x1Cxxxxxx	i950 BF9 – 90 kW i950 BF9 – 110 kW	E90ABCSC0000VCXP00	E90CBCMC0000xNNP01	E90ABCTC1144xxNP00 E50ABCLC1144xNNP00	V2.0.1.13212	968/FSP 1605.09/26	Valid
I95Cx155x1Axxxxxx I95Cx175x1Axxxxxx	i950 BF3 – 0.55 kW i950 BF3 – 0.75 kW	E90ABCSC0000VCXP00	E90CBCMC0000xNNP01	E90CBCLC1756V1NP03	V2.0.1.13212	968/FSP 1605.09/26	Valid
I95Cx215x1Axxxxxx I95Cx222x1Axxxxxx I95Cx240x1Axxxxxx	i950 BF3 – 1.50 kW i950 BF3 – 2.20 kW i950 BF3 – 4.00 kW	E90ABCSC0000VCXP00	E90CBCMC0000xNNP01	E90CBCLC2406V1NP03	V2.0.1.13212	968/FSP 1605.09/26	Valid
I95Cx255x1Cxxxxxx I95Cx275x1Cxxxxxx	i950 BF3 – 5.50 kW i950 BF3 – 7.50 kW	E90ABCSC0000VCXP00	E90CBCMC0000xNNP01	E90CBCLC2756V1NP03	V2.0.1.13212	968/FSP 1605.09/26	Valid
I95Cx311x1Cxxxxxx I95Cx315x1Cxxxxxx	i950 BF5 – 11.0 kW i950 BF5 – 15.0 kW	E90ABCSC0000VCXP00	E90CBCMC0000xNNP01	E90CBCLC3156V1NP05	V2.0.1.13212	968/FSP 1605.09/26	Valid
I95Cx322x1Cxxxxxx I95Cx330x1Cxxxxxx I95Cx345x1Cxxxxxx	i950 BF5 – 22 kW i950 BF5 – 30 kW i950 BF5 – 45 kW	E90ABCSC0000VCXP00	E90CBCMC0000xNNP01	E90CBCLC3456V1NP05	V2.0.1.13212	968/FSP 1605.09/26	Valid

Safety functions overview

Safety functions				Safety rating ^{*)}
STO	Safe Torque Off	SS1	Safe Stop 1	Up to Category 4 / PL e and SIL 3
SLS	Safely-limited Speed	SLP	Safely-limited Position	
SCA	Safe Cam	SSM	Safe Speed Monitor	
RMS	Repair Mode Select	ES	Enable Switch	
CAS	Safe Cascading	SHOM	Safe Homing	
SDO	Safe Digital Outputs	Safe parameter setting		
FW Updates (ES) by customer				
SBC	Safe Brake Control			Category 2 / PL d and SIL 2

Note^{*)}: The actually achievable safety performance depends always on the concrete application and realization under consideration of all boundary conditions.

Note^{**)}: In these firmware revisions, the function for linking the safe digital output SD-Out1 (connector X82, O1A, O1B) via parameter 0x28A0 is faulty. The behavior of the output does not follow the status signal "SOS observed" when leaving the SOS tolerance limits. For further information see Original Instructions, chapter "Aktuelle Sicherheitshinweise zu bekannten Fehlerbildern".

Remark: The manufacturer and the Conformity Assessment Body agree on the Revision List as an attachment to the certificate.

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referred to on Certificates No.: 01/205/5657.02/26
Product Tested: i950ES: Extended Safety
Safety Functions in i950 Drive Series
Type: I95xxxxxx1Cxxxxxxx

Revision:

Date	Rev.	Description / Changes	Author
2018-12-17	1.0	Initial creation based on Report-No.: 968/FSP 1605.00/18	gr/A-FS
2019-07-04	1.1	Changes and additions based on Report-No.: 968/FSP 1605.01/19	gr/A-FS
2021-06-24	1.2	Changes and additions based on Report-No.: 968/FSP 1605.02/21	sw/A-FS
2021-12-06	1.3	Changes and additions based on Report-No.: 968/FSP 1605.03/21	jm/A-FS
2022-01-11	1.4	Changes and additions based on Report-No.: 968/FSP 1605.04/22	sw/A-FS
2023-12-18	1.5	Changes and update of both certificates (EC-Type Examination and UKCA) according to the Report-No.: 968/FSP 1605.05/23	nm/A-FS
2024-11-14	1.6	Firmware updated based on Report-No.: 968/FSP 1605.06/24 Rev.01	nm/A-FS
2025-07-04	1.7	Firmware updated based on Report-No.: 968/FSP 1605.07/25	jla/A-FS
2025-12-18	1.8	Firmware updated based on Report-No.: 968/FSP 1605.08/25	Wi/A-FS
2026-07-29	1.9	Update (new i950 Generation B+C), based on Report-No.: 968/FSP 1605.09/26	Nm/wi /A-FS