

**Product Tested: i950ES: Extended Safety Functions in
i950 Drive Series, Type: I95Axxxxx1Cxxxxxxx**

Safety related modules / components

Type Designation	Description	SP Safety Board	MP Control Board	TP/LP Interface Board / 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
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
		E90ABCSC0000VCXP00	E90ABCMC0000xNNP00		V1.0.1.0	968/FSP 1605.00/18	Invalid

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I95Ax240x1Cxxxxxxx I95Ax255x1Cxxxxxxx I95Ax275x1Cxxxxxxx I95Ax311x1Cxxxxxxx I95Ax315x1Cxxxxxxx	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			E90ABCLC113xxxFP00 E90ABCLC153xxxFP00	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
I95Ax322x1Cxxxxxxx	i950 BF6 – 22 kW	E90ABCSC0000VCXP00	E90ABCMC0000xNNP00	E90ABCTC2234xCNP00	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
I95Ax330x1Cxxxxxxx I95Ax345x1Cxxxxxxx	i950 BF7 – 30 kW i950 BF7 – 45 kW	E90ABCSC0000VCXP00	E90ABCMC0000xNNP00	E90ABCTC4534xCNP00 E84ACBLN4534x0P000	V1.0.1.0	968/FSP 1605.00/18	Invalid
					V1.1.1.0**	968/FSP 1605.01/19	Valid

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					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
I95Ax355x1Cxxxxxx I95Ax375x1Cxxxxxx	i950 BF8 – 55 kW i950 BF8 – 75 kW	E90ABCSC0000VCXP00	E90ABCMC0000xNNP00	E90ABCTC7534xCNP00 E84ACBLN7534x0P000	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
I95Ax390x1Cxxxxxx I95Ax411x1Cxxxxxx	i950 BF9 – 90 kW i950 BF9 – 110 kW	E90ABCSC0000VCXP00	E90ABCMC0000xNNP00	E90ABCTC1144xNNP00 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

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					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

Safety functions overview

Safety functions					Safety rating*)
STO Safe Torque Off	SS1 Safe Stop 1	SS2 Safe Stop 2	SOS Safe Operating Stop		Up to Category 4 / PL e and SIL 3
SLS Safely-limited Speed	SLP Safely-limited Position	SLI Safely-limited Increment	SDI Safe Direction		
SCA Safe Cam	SSM Safe Speed Monitor	SMS Safe Maximum Speed	OMS Operation Mode Select		
RMS Repair Mode Select	ES Enable Switch	SSE Safe Stop Emergency	PDSS Position Dependent Safe Speed		
CAS Safe Cascading	SREF Safe Reference	MUT Safe Muting	SDI Safe Inputs		
SDO Safe Outputs	Safe parameter setting	PROFIsafe via PROFINET	FSOE Fail Safe over EtherCAT		
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 TÜV Rheinland agree on the Revision List as an attachment to the certificate.

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**Product Tested: i950ES: Extended Safety Functions in
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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