

Annex 1 of the Report
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SIMATIC S7 F/FH Systems

Manufacturer:

Siemens AG

PD PA AE R&D

Östliche Rheinbrückenstr. 50

D-76187 Karlsruhe

Report No.: SN87148C-A1

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Testing Body:

TÜV SÜD Rail GmbH

Rail Automation

Barthstrasse 16

D-80339 München

Certification Body:

TÜV SÜD Product Service GmbH

Ridlerstrasse 65

D-80339 München



Revision Log

Ver.	Name	Date	Changes/History
1.0	J. Blum	2015-12-18	Initial for IEC 61508(ed.2)
1.1	G. Effenberger	2016-04-21	Added table 1.2.6 (SA85222T, SA85747T)
1.2	P. Weiß	2016-06-23	Updated certificate number (SK88771T)
1.3	P. Weiß	2016-08-10	System Version 6.2 added (SK89813T)
1.4	G. Effenberger	2017-02-01	<ul style="list-style-type: none"> Application standards EN 54-2: disclosure of affected modules, indicated with X) / Report of modifications (SK 90484T) Release Number 05 added (SN90106T): F-PM-E 24VDC/8A PPM ST (6ES7 136-6PA00-0BC0) FW Update 5.0.1 (SN90400T) 4 F-DO DC24V/2A (6ES7 138-4FB04-0AB0)
1.5	P. Weiß	2017-05-17	New CPU410 E PN/DP added (SK91010T)
1.6	G. Effenberger	2017-07-31	New CPU410 SIS added (SK91445T) New Module 8F-DQ (6ES7 136-6DC00-0CA0) added Added Version S7 F Systems V6.2 Update 1, ConfigPack V5.5 SP 13
1.7	G. Effenberger	2017-11-27	New structure of Annex, approval of compatibility of versions of S7- F Systems (Engineering tool – Lib – HMI – Configuration pack)
1.8	G. Effenberger	2018-02-26	Added new Version 1.0.4 for ET200M 6F AI HART (SA92057T)
1.9	P. Weiß	2018-08-27	FW Version V1.0.5 added (SF92734T): <ul style="list-style-type: none"> 6F-AI HART (6ES7 336-4GE00-0AB0)

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Safety-Certified and Interference-Free Components

1 Hardware and Firmware Components

The following system components are certified 'safety-related'. This allows the components to be used to process safety critical signals and functions:

1.1 CPUs which are suitable for safety-related applications by using a fail-safe-application program

1.1.1 CPU S7-400H *

Name	Order Number	Release Number / Firmware Version
CPU 410-5H	6ES7 410-5HX08-0AB0	1 or higher / V8.0.0 or higher
CPU 410E	6ES7 410-5HM08-0AB0	1 or higher / V8.2.0 or higher
CPU 410SIS	6ES7 410-5FM08-0AB0	1 or higher / V8.2.0 or higher
CPU 412-5H PN/DP	6ES7 412-5HK06-0AB0	1 or higher / V6.0.0 or higher
CPU 414-5H PN/DP	6ES7 414-5HM06-0AB0	1 or higher / V6.0.0 or higher
CPU 416-5H PN/DP	6ES7 416-5HS06-0AB0	1 or higher / V6.0.0 or higher
CPU 417-5H PN/DP	6ES7 417-5HT06-0AB0	1 or higher / V6.0.0 or higher

Table 2: CPU S7- 400H

* The sinusoidal vibrations service conditions does not comply with the increased requirements of IEC 61131-2 2nd and 3rd Ed. The requirements of IEC 61131-2:1992 are fulfilled.



1.2 F-Modules

The following modules – marked with « X) » - do not comply with the complete test basis defined on the certificate. They are not tested in accordance to EN 54-2.

1.2.1 ET 200M

Module	Order Number	Release Number / Firmware Version	Module Description
DI 24 x DC24V	6ES7 326-1BK02-0AB0	01	24 channel digital input module 24VDC
DI 8 x NAMUR	6ES7 326-1RF01-0AB0	01	8 channel NAMUR digital input module for intrinsically-safe sensors
DO 10 x DC 24V/2A PP	6ES7 326-2BF10-0AB0	03 / V1.0.2	10 channel digital output module 24VDC/2A, P-switch
DO 8 x DC24V/2A PM	6ES7 326-2BF41-0AB0	01	8 channel digital output module 24VDC/2A, P/M-switch
AI 6 x 0/4...20 mA HART	6ES7 336-4GE00-0AB0	04 / V1.0.3, V1.0.4, V1.0.5	6 channel analog input module, HART
Safety Protector	6ES7 195-7KF00-0XA0	04	Safety protector protects the fail-safe signal modules from possible overvoltage

Table 3: ET 200M



1.2.2 ET 200iSP

Module	Order Number	Release Number / Firmware Version	Module Description
4F-DO Ex 17,4V/40mA	6ES7 138-7FD00-0AB0	02 / V1.0.1	4 channel digital output module 17,4VDC/40mA PP-switch
8F-DI Ex NAMUR	6ES7 138-7FN00-0AB0	02 / V1.0.1	8 channel NAMUR digital input module
4F-AI Ex HART	6ES7 138-7FA00-0AB0	02 / V1.0.1	4 channel analog input module, HART

Table 4: ET 200iSP

1.2.3 ET 200S^{x)}

Module	Order Number	Release Number / Firmware Version	Module Description
4/8 F-DI DC24V	6ES7 138-4FA05-0AB0	01 / V6.0.3	4/8 channel digital input module 24VDC
4 F-DO DC24V/2A	6ES7 138-4FB04-0AB0	01 / V5.0.0, V5.0.1	4 channel digital output module 24VDC/2A; P/M switch
4F-DI/3F-DO	6ES7 138-4FC01-0AB0	02	4 channel digital input / 3 channel digital output module 24VDC/2A
1F-RO DC24V/5A, AC24...230V/5A	6ES7 138-4FR00-0AA0	03	1 channel digital relay output module DC24V/5A, AC24...230V/5A
PM-E F pm DC24V	6ES7 138-4CF03-0AB0	02	Power module 24VDC; P/M switch
PM-E F pp DC24V	6ES7 138-4CF42-0AB0	02	Power module 24VDC; P/P switch



Module	Order Number	Release Number / Firmware Version	Module Description
PM-D F DC24V	3RK1903-3BA02	01	Power module 24VDC for failsafe motor starters

Table 5: ET 200S

1.2.4 ET 200pro ^{x)}

Module	Order Number	Release Number / Firmware Version	Module Description
8/16 F-DI DC24V	6ES7 148-4FA00-0AB0	06	8/16 channel digital input module 24VDC
4/8 F-DI/4 F-DO DC24V/2A	6ES7 148-4FC00-0AB0	06	4/8 channel digital input 24VDC and 4 channel digital output module 24VDC/2A P- / M-switch (combined)
F-Switch	6ES7 148-4FS00-0AB0	03	2 channel digital input 24VDC and 3 channel digital P- / P-switch module 24VDC (combined)

Table 6: ET 200pro

1.2.5 ET 200eco ^{x)}

Module	Order Number	Release Number / Firmware Version	Module Description
4/8 F-DI DC24V	6ES7 148-3FA00-0XB0	05	4/8 channel digital input module 24VDC

Table 7: ET 200eco



1.2.6 ET 200SP ^{x)}

Module	Order Number	Release Number / Firmware Version	Module Description
F-DI 8x24VDC HF	6ES7 136-6BA00-0CA0	01 to 04 / V1.0.5	8 channel digital input module 24VDC
F-DQ 4x24VDC/2A PM HF	6ES7 136-6DB00-0CA0	01 to 04 / V1.0.2, V1.0.3	4 channel digital output module 24VDC
F-DQ 8x24VDC/0.5A PP HF	6ES7 136-6DC00-0CA0	01 / V1.0.0	8 channel digital output module 24VDC
F-PM-E 24VDC/8A PPM ST	6ES7 136-6PA00-0BC0	01 to 05 / V1.0.5	power module 24VDC; P- / M-switch
F-RQ 1x24VDC/24...230VAC/5A	6ES7 136-6RA00-0BF0	01 to 02	1 channel digital relay output module 24VDC/5A, 24...230VAC/5A

Table 8: ET 200SP

1.2.7 Interference-Free Components

All other components of the S7-400 and S7-300 family are 'interference-free' and allowed to be used; however, they are not certified for process safety critical signals and functions. Using these components does not interfere with the proper functioning of the safety-related modules. For details on architectural, configuration and implementation requirements please refer to the Siemens manuals of the SIMATIC S7 F/FH Systems documentation package.



2 Safety-Relevant Software Components

2.1 Option Package S7 F Systems

Software Component / Name	Version
S7 F Systems Engineering Tool	V6.1 + SP2 V6.2
S7 F Systems Library	V1.3 V1.3 + SP1 V1.3 + SP1 + Update 1 V1.3 + SP2
S7 F Systems HMI	V6.1 + SP2 V6.2
S7 F ConfigurationPack	V5.5 + SP11 V5.5 + SP12 V5.5 + SP13

Table 9: Option Package S7 F- Systems

The above listed software components are certified in any combination, except

- S7 F Systems (Engineering Tool / HMI) V6.1 + SP2 with S7 F Systems Library V1.3 SP2

2.1.1 S7 F Systems Library

F-FB Function	Library Version	Signature	Initial Value Signature
DB_INIT F-Control block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	N/A	N/A
DB_RES F-Control block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	N/A	N/A
F_1oo2AI F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	013D	0CE3



F-FB Function	Library Version	Signature	Initial Value Signature
F_1oo2_R F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	DA53	AA5A
F_2OUT3 F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	34DE	D79F
F_2oo3AI F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1	4580	CE7E
	V1.3 + SP2	09FD	874E
F_2oo3DI F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	5323	04A0
F_2oo3_R F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	AB9F	112C
F_ABS_R F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	7E9D	4885
F_ADD_R F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	DFBF	B1DF
F_AND4 F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	89B0	6837



F-FB Function	Library Version	Signature	Initial Value Signature
F_AVEX_R F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	E57D	947D
F_BO_FBO F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	27AB	87DA
F_CHG_BO F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	D042	E5F2
F_CHG_R F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	E4CD	5DB5
F_CHG_WS F-Control block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	N/A	N/A
F_CH_AI F-User block	V1.3	D846	3A31
	V1.3 + SP1 V1.3 + SP1 + Update1	A293	3A31
	V1.3 + SP2	68AF	1CFE
F_CH_BI F-User block	V1.3	E888	5FA7
	V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	E0A2	5FA7
	V1.3 + SP2		
F_CH_BO F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	A8C7	A5E4



F-FB Function	Library Version	Signature	Initial Value Signature
F_CH_DI F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	3119	EA57
F_CH_DII F-User block	V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	6709	F35B
F_CH_DIO F-User block	V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	0AB9	CF40
F_CH_DO F-User block	V1.3	F967	4F58
	V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	C5F2	BCEE
F_CH_II F-User block	V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	4D5E	4DAE
F_CH_IO F-User block	V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	39E2	D4D9
F_CH_RI F-User block	V1.3 + SP2	63DF	B173
F_CMP_R F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	689A	602E
F_CTUD F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	609B	188C



F-FB Function	Library Version	Signature	Initial Value Signature
F_CYC_CO F-Control block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	701D	424E
F_DEADTM F-User block	V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	1448	2566
F_DIAG F-Cntrl block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	40FC	DDF4
F_DIV_R F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	43F6	C0B8
F_FBO_BO F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	N/A	N/A
F_FDI_FR F-User block	V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	6CFE	0D64
F_FI_FR F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	672A	9FDE
F_FI_I F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	N/A	N/A



F-FB Function	Library Version	Signature	Initial Value Signature
F_FR_FDI F-User block	V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	D913	0D64
F_FR_FI F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	2B3C	B269
F_FR_R F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	N/A	N/A
F_FTI_TI F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	N/A	N/A
F_F_TRIG F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	75E7	8F11
F_INT_P F-User block	V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	09D7	DCDF
F_I_FI F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	4871	87DA
F_LIM_HL F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	A43A	1E14



F-FB Function	Library Version	Signature	Initial Value Signature
F_LIM_I F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	4845	4D9B
F_LIM_LL F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	1451	1E14
F_LIM_R F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	B3D0	3957
F_LIM_TI F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	6E64	68DC
F_MAX3_R F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	C14F	F93F
F_MID3_R F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	EC2C	EA98
F_MIN3_R F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	D0D7	E12A
F_MOV_R F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	652F	C02B



F-FB Function	Library Version	Signature	Initial Value Signature
F_MOVRWS F-Control block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	N/A	N/A
F_MUL_R F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	AA0F	B1DF
F_MUX16R F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	AF74	EEFE
F_MUX2_R F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	BFE3	9CB1
F_NOT F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	9CD8	DD06
F_OR4 F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	5DCA	6B42
F_PA_AI F-User block	V1.3	84D9	B5A7
	V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	D5C3	B5A7
F_PA_DI F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	2FC7	E4F2



F-FB Function	Library Version	Signature	Initial Value Signature
F_PLK F-Control block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1	CD05	A65D
	V1.3 + SP2	00AE	A65D
F_PLK_O F-Control block	V1.3	45F2	7B78
	V1.3 + SP1		
	V1.3 + SP1 + Update1 V1.3 + SP2		
F_POLYG F-User block	V1.3 + SP1	FBF5	C81D
	V1.3 + SP1 + Update1		
	V1.3 + SP2		
F_PS_12 F-Control block	V1.3	A56A	B87A
	V1.3 + SP1		
	V1.3 + SP1 + Update1		
	V1.3 + SP2		
F_PS_MIX F-Control block	V1.3	AD87	N/A
	V1.3 + SP1		
	V1.3 + SP1 + Update1		
	V1.3 + SP2		
F_PSG_M F-User block	V1.3	N/A	N/A
	V1.3 + SP1		
	V1.3 + SP1 + Update1		
	V1.3 + SP2		
F_PT1_P F-User block	V1.3 + SP1	CAAE	300B
	V1.3 + SP1 + Update1		
	V1.3 + SP2		
F_QUITES F-User block	V1.3	797A	B027
	V1.3 + SP1	363D	B027
	V1.3 + SP1 + Update1 V1.3 + SP2		



F-FB Function	Library Version	Signature	Initial Value Signature
F_RCVBO F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1	DD4B	8360
	V1.3 + SP2	9FA7	AE75
F_RCVR F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1	3209	B103
	V1.3 + SP2	875D	C1B1
F_RDS_BO F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1	4389	EDD9
	V1.3 + SP2	612D	8C98
F_REPCYC F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	8F66	61F4
	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	7ECA	73FD
F_RS_FF F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	6257	B56D
	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	CC9E	E882
F_R_FR F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	4278	6BCE



F-FB Function	Library Version	Signature	Initial Value Signature
F_R_R F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	AC9C	237E
F_R_TRIG F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	BFC8	8F11
F_SDS_BO F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1	C804	662A
	V1.3 + SP2	BE2F	662A
F_SENDBO F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1	8D63	5812
	V1.3 + SP2	5889	5812
F_SENDR F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1	2FE2	678B
	V1.3 + SP2	E3F8	678B
F_SHUTDN F-Cntrol block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	N/A	N/A
F_SMP_AV F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	5659	EEDA
F_SQRT F-User block	V1.3	E621	6B0F
	V1.3 + SP1 V1.3 + SP1 + Update1	3B59	6B0F
	V1.3 + SP2		



F-FB Function	Library Version	Signature	Initial Value Signature
F_SR_FF F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	9EBE	B56D
F_START F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	5791	2151
F_SUB_R F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	E217	B1DF
F_SWC_BO F-User block	V1.3 + SP1 V1.3 + SP1 + Update1	FEE7	87B0
	V1.3 + SP2	EBCD	87B0
F_SWC_CB F-User block	V1.3 + SP2	8B27	6777
F_SWC_CR F-User block	V1.3 + SP2	B396	154D
F_SWC_P F-User block	V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	7ADD	5A86
F_SWC_R F-User block	V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	1939	E2B9
F_S_BO F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	59D5	1110



F-FB Function	Library Version	Signature	Initial Value Signature
F_S_R F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	7394	1FC2
F_TEST F-Control block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	EC5F	EB03
F_TESTC F-Control block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1	680A	38BA
	V1.3 + SP2	66AB	F86C
F_TESTM F-Control block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	8B5A	9A74
F_TI_FTI F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	A06D	6BCE
F_TOF F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	E45B	22F6
F_TON F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	38DA	22F6
F_TP F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	E671	22F6



F-FB Function	Library Version	Signature	Initial Value Signature
F_VFSTP1 F-Control block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	N/A	N/A
F_VFSTP2 F-Control block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	N/A	N/A
F_XOR2 F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	6D4D	069A
F_XOUTY F-User block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1	68A0	68BE
	V1.3 + SP2	3B02	4EB8
FORCEOFF F-Control block	V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	N/A	N/A
RTGLOGIC F-Control block	V1.3 V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	N/A	N/A
SWC_CHG F-User block	V1.3 + SP2	N/A	N/A
SWC_MOS F-User block	V1.3 + SP1 V1.3 + SP1 + Update1 V1.3 + SP2	N/A	N/A
SWC_QOS F-User block	V1.3 + SP2	N/A	N/A

Table 10: S7 F Systems Library



3 Non-Safety Relevant Software Components

Function	Version
S7 F Device Integration Pack	V6.2 or higher
CFC *	V7.0 SP1 or higher
STEP 7 *	V5.4 SP3 or higher

Table 11: Non-Safety Relevant Software Components

Munich, 2018-08-27

TÜV SÜD Rail GmbH
Rail Automation

Peter Weiß

* Further restrictions specific to modules or versions of the optional package S7 F Systems can be found in the corresponding user documentation.