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Technical Report

for

NFPA79 Listing

of the Simatic HMI Key Panel KP32F

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Manufacturer
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Report no. SF84116T
Revision: 1.0, Date 2012-03-05

Test Body

TÜV SÜD Rail GmbH
Rail Automation
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Revision history

Revision	Date	Author	Status	Modifications
1.0	2012-03-05	Leonhard Brandl	initial	-

Table 1: Revision history

Content

List of Tables

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1 Target of Evaluation (ToE)

Subject of the approval is the safety-related Simatic HMI Key Panel KP32F listed in [R2] from Siemens AG according to NFPA 79. The Project No. related to this Technical Report was as follows: 717504915.

2 Purpose of the Document

This report presents the approval results related to an IEC 61508:2010 certified product. Therefore the assessment is restricted to the auxiliary requirements demanded by NFPA 79:2007. The underlying test documentation is listed in section 4, the regarded standard/s in section 3.

3 Basis of Testing

The regulations and guidelines which form the basis of the type testing are listed below.

No.	Standard	Title
[L1]	NFPA79:2007	Electrical Standard for Industrial Machinery

4 Documents provided for testing of KP32F

Following documents were provided by Siemens AG to be checked and evaluated by the test house.

No.	Title	Document-No./ File identifier	Revision	Date
[D1]	KP8F type plate (as template)	Typenschild_Layout.pdf	07	2011-08-29
[D2]	Contents of KP32F type plate	Typenschild_Data.pdf	03	2011-12-02
[D3]	Environmental test report, including EMC test report and test report on vibration (sine) and shock	Type Test Report No. 2011-A073	-	2011-11-30
[D4]	DAkkS accreditation of the Siemens testing laboratory in Amberg, Germany	D-PL-11055-06-01	-	valid until 2016-01-11
[D5]	DAkkS accreditation of the Siemens testing laboratory in Karlsruhe, Germany	D-PL-11055-06-02	-	valid until 2016-04-12

No.	Title	Document-No./ File identifier	Revision	Date
[D6]	User's manual, including safety manual	A5E03088480-02	-	2011-11

Table 2: Documentation

5 Performance and result of tests

5.1 Test reports

Following documents and/or test reports were issued by TÜV SÜD Rail GmbH or other accredited test laboratories.

No.	Title	Document-No./ File identifier	Revision	Date
[R1]	TÜV SÜD Certificate	Z10 12 02 14912 010	-	2012-02-29
[R2]	Report on the Certificate	SF83937C	1.0	2012-02-28
[R3]	NFPA 79 Checklist	Checkliste_KP8F_KP32F.doc	1.1	2011-12-14
[R4]	Review Report	2012-01-30_KP32F_Review_Report_V1_3.docx	1.3	2012-02-17
[R5]	Technical report on NFPA 79 listing	SF84116T	1.0	2012-03-05

Table 3: Test results

5.2 Description of the assessment

Based on the Checklist for NFPA compliance [R3], TÜV SÜD Rail GmbH has assessed the test documents [D1] – [D6] for the Simatic HMI Key Panel KP32F.

Result:

The results and completeness of the tests performed and documented by the customer have been verified and compared with the requirements of NFPA 79. The necessary tests for an approval in accordance to NFPA 79:2007 have been performed and documented adequately.

5.3 Identification

Component	Order no. (MLFB) and/or APCB	Device identification	Firmware revision
SIMATIC HMI Key Panel	6AV3 688-3EH47-0AX0	KP32F	V1.0.0

Table 4: EuT type identification

6 Summary

The Simatic HMI Key Panel KP32F complies with the relevant requirements of NFPA 79, if the conditions and restrictions of the related user manuals are met.

Application specific requirements of NFPA 79 which are not part of this assessment shall be regarded for the safety instrumented system on site.

i.V. Matthias Ramold
Reviewer

i.A. Leonhard Brandl
Project Manager