



Product Service

CERTIFICATE

No. Z10 16 07 59719 021

Holder of Certificate: Siemens AG, DF MC
Frauenauracher Strasse 80
91056 Erlangen
GERMANY

Factory(ies): 67261

Certification Mark:



Product: Safety Related Programmable Electronic System

Model(s): Frequency Converter SIMATIC ET200pro FC-2

Parameters:

Safety Parameter:	
Safety Integrity Level (SIL):	2
Category (Cat.):	3
Performance Level (PL):	d

Safety Functions according report below.

The report below and the user documentation in the currently valid revision are mandatory part of this certificate. The product complies with the following listed safety requirements only if the specifications documented in the currently valid revision of this report are met.

Tested according to:

- IEC 61508-1(ed.2) (SIL 2)
- IEC 61508-2(ed.2) (SIL 2)
- IEC 61508-3(ed.2) (SIL 2)
- IEC 62061(ed.1);am1
- IEC 61800-5-2(ed.1)
- EN ISO 13849-1:2015 (Cat 3, PL d)

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

Test report no.: SE88955C

Valid until: 2021-07-26

Date, 2016-07-27 (Peter Weiss)

Page 1 of 1





Annex 1
of the
Report to the Certificate
Z10 16 07 59719 021
M8B 16 07 59719 022
Frequency Converter
SIMATIC ET200pro FC-2

Manufacturer:

Siemens AG, DF MC
Frauenauracher Str. 80
91056 Erlangen

Report no.: SE88955C-A1

Revision 1.0 of the annex, dated 2016-07-27

Test Body

TÜV SÜD Rail GmbH
Rail Automation
Barthstrasse 16
D-80339 Munich

Certification Body

TÜV SÜD Product Service GmbH
Ridlerstrasse 65
D-80339 Munich



REVISION

Version	Status	Date	Author	Changed chapters	Reason of change
1.0	initial	2016-07-27	J. Dong		Initial

Table 1: Revision



Safety-Certified Hardware and Software Components

The following SIMATIC ET200pro FC-2 system components are covered by Certificate no. Z10 16 07 59719 021 and the report to the certificate, report no. SE88955C.

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

For every system component the safety functions implemented are identified and allocated to the hardware version of the devices and the safety firmware version. The available safety functions are listed in the following table:

Abbreviation	Description of Safety Function	SIMATIC ET200pro FC-2
STO	Safe Torque Off	x
SS1	Safe Stop 1	-
SLS	Safe Limited Speed	-
SBC	Safe Brake Control	-
SSM	Safe Speed Monitor	-
SDI	Safe Direction	-
Safe Inputs		x
Safe Outputs		-

All these safety functions fulfill the requirements for SIL2, category 3 and PL d according the standards listed in the report to the certificate.



1 Software SIMATIC ET200pro FC-2

CU 6SL3514-1KE13-5AE0	Safety-Firmware-Version (Basic)	Safety-Firmware-Version (Extended)
V 4.7	04.70.53.00	-

2 Hardware SIMATIC ET200pro FC-2

Description	Purchase-No. (MLFB)	Version
ET200pro FC-2	6SL3514-1KE13-5AE0	B02

Munich, 2016-07-27

TÜV SÜD Rail GmbH
Rail Automation

Peter Weiß
(Technical Certifier)