



# Zertifikat zur Anerkennung

## *Certificate of acceptance*

von / of

Siemens AG  
EMV Labor RBG S 10  
Siemensstraße 10, 93055 Regensburg  
GERMANY

durch die / by the

**VDE Prüf- und Zertifizierungsinstitut GmbH**  
***VDE Testing and Certification Institute***

für das / for the

### **Test Data Acceptance Program**

in der Stufe 2 / in the Stage 2

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2019-03-01

J. Richter

Merianstrasse 28, 63069 Offenbach, Germany  
phone +49 69 8306 0, fax: +49 69 8306 555  
e-mail: [vde-institut@vde.com](mailto:vde-institut@vde.com), [www.vde-institut.com](http://www.vde-institut.com)

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Version 1, 2016-04-01

**VDE**  
INSTITUT



# TDAP-SCOPE

for

Siemens AG  
EMV Labor RBG S 10  
Siemensstraße 10, 93055 Regensburg  
GERMANY

## Products:

### EMC, INDA, POW

Low-voltage switchgear and controlgear – Part 1: General rules

Low-voltage switchgear and controlgear –  
Part 5-1: Control circuit devices and switching elements –  
Electromechanical control circuit devices

### INDA, POW

Low-voltage switchgear and controlgear – Circuit breakers

### INDA, POW

Low-voltage switchgear and controlgear –  
Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units

### INDA, POW

Low-voltage switchgear and controlgear –  
Part 4-1: Contactors and motor-starters – Electromechanical contactors and motor-starters

## Standards:

IEC 60947-1:2007  
IEC 60947-1:2007/AMD1:2010  
IEC 60947-1:2007/AMD2:2014  
EN 60947-1:2007 + A1:2011 + A2:2014  
DIN EN 60947-1:2015-09  
*Accepted clauses 7.3 and 8.4 (EMC) except for radiated emissions*

IEC 60947-5-1:2016  
EN 60947-5-1:2017  
DIN EN 60947-5-1:2018-03  
*Accepted clauses: 7.3 and 8.4 (EMC) except for radiated emissions*

IEC 60947-2:2016  
EN 60947-2:2017  
DIN EN 60947-2:2018-05  
*Annex B, F, J, M, N (all clauses dealing with EMC, except for radiated emissions)*

IEC 60947-3:2008  
IEC 60947-3:2008/AMD1:2012  
IEC 60947-3:2008/AMD2:2015  
EN 60947-3:2009 + A1:2012 + A2:2015  
*Accepted clauses: 7.3 and 8.4 (EMC) except for radiated emissions*

IEC 60947-4-1:2009  
IEC 60947-4-1:2009/  
AMD1:2012  
EN 60947-4-1:2010 + A1:2012  
DIN EN 60947-4-1:2014-02  
*Accepted clauses: 8.3 and 9.4 (EMC) except for radiated emissions*

## Persons:

Authorized for testing:  
Winzinger  
Bonn  
Baumann

Authorized for countersign the test report:  
Knerer



# TDAP-SCOPE

Residual current monitors for household and similar uses

IEC 62020:1998  
IEC 62020:1998/AMD1:2003  
EN 62020:1998 + A1:2005  
DIN EN 62020:2005-11  
*Accepted clause 9.22 (EMC);  
No disturbance power measurements,  
no radiated measurements*

Authorized for testing:  
Winzinger  
Bonn  
Baumann

**PROT**  
AFDD

IEC 62606:2013  
IEC 62606:2013/AMD1:2017  
EN 62606:2013 + A1:2017  
DIN EN 62606:2014-08  
*Accepted clause 9.21 (EMC),  
No disturbance power measurements  
and no radiated measurements acc. to  
CISPR 14-1*

Authorized for countersign  
the test report:  
Knerer

Electrical accessories - residual current monitors for household and similar uses (RCMs)

IEC 62335:2008  
*Accepted clause: 9.31 and Annex D, no  
disturbance power measurements and  
no field strength measurements acc, to  
CISPR 14-1*

**ELVH, PROT**  
IC-CPD

IEC 62752:2016  
IEC 62752:2016/AMD1:2018  
EN 62752:2016  
DIN EN 62752:2017-04  
*Accepted clauses 9.26 and 9.16, no  
disturbance power measurements and  
no field strength measurements acc, to  
CISPR 14-1*

Residual direct current monitoring device to be used for mode 3 charging of electric vehicle

IEC 62955:2018  
E DIN IEC 62955:2016  
*Accepted clauses 9.21.2 and 9.18.1, no  
disturbance power measurements and  
no field strength measurements acc, to  
CISPR 14-1*



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Residual current operated circuit-breakers type B without integral overcurrent protection to operate at residual alternating and residual direct currents for advanced preventive protection against fire

DIN VDE 0664-400:2012-05  
DIN VDE 0664-401:2012-05  
*Accepted clause: Refer to IEC 61008-1*

Authorized for testing:  
Winzinger  
Bonn  
Baumann

## PROT

Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs)

IEC 61008-1:2010  
IEC 61008-1:2010/AMD1:2012  
IEC 61008-1:2010/AMD2:2013  
EN 61008-1:2012 + A1:2014 + A1:2014/AC:2016 + A2:2014 + A11:2015 + A12:2017  
DIN EN 61008-1:2018-03  
*Accepted clauses 9.24.2 (EMC) and 9.19.1,  
No disturbance power measurements, and no field strength measurements acc. to CISPR 14-1*

Authorized for countersign the test report:  
Knerer

## PROT

Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs) – Applicability of the general rules to RCCBs for rated voltage exceeding 440 V AC or rated current exceeding 125 A

IEC 61008-2-1:1990  
EN 61008-2-1:1994 + A11:1998  
DIN EN 61008-2-1:1999-12  
*Accepted clauses 9.24.2 and 9.19.1  
No disturbance power measurements and no field strength measurements acc, to CISPR 14-1*

## PROT

Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs) – Applicability of the general rules to RCCBs functionally dependent on line voltage

IEC 61008-2-2:1990  
DIN VDE 0664-101  
(VDE 0664 Teil 101):2003-10  
DIN V VDE V 0664-120  
(VDE V 0664-120):2010-07  
*Accepted clauses 9.24.2 and 9.19.1  
No disturbance power measurements and no field strength measurements acc, to CISPR 14-1*

## PROT

Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs)

IEC 61009-1:2010  
IEC 61009-1:2010/AMD1:2012  
IEC 61009-1:2010/AMD2:2013  
EN 61009-1:2012+A1:2014 +A2:2014+A11:2015+A12:2016  
DIN EN 61009-1:2016-10  
*Accepted clauses 9.24.2 and 9.19.1, no disturbance power measurements and no field strength measurements acc, to CISPR 14-1*

Merianstrasse 28, 63069 Offenbach, Germany  
phone +49 69 8306 0, fax: +49 69 8306 555

e-mail: [vde-institut@vde.com](mailto:vde-institut@vde.com), [www.vde-institut.com](http://www.vde-institut.com)

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## PROT

Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs)

IEC 61009-2-1:1991  
EN 61009-2-1:1994 + A11:1998 + AC:1999  
DIN EN 61009-2-1 (VDE 0664 Teil 21):1999-12  
*Accepted clauses 9.24.2 and 9.19.1, no disturbance power measurements and no field strength measurements acc, to CISPR 14-1*

Authorized for testing:  
Winzinger  
Bonn  
Baumann

## PROT

Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs)

IEC 61009-2-2:1991  
DIN V VDE V 0664-220  
(VDE V 0664-220):2010-07  
*Accepted clauses 9.24.2 and 9.19.1, no disturbance power measurements and no field strength measurements acc, to CISPR 14-1*

Authorized for countersign the test report:  
Knerer

## EMC

Residual current operated protective devices (RCD) for household and similar use

IEC 61543:1995  
IEC 61543/AMD1:2004  
IEC 61543/AMD2:2005  
DIN EN 61543:2006-06 + Ber. 1:2007-06  
*All clauses*

## EMC

Industrial, scientific and medical equipment

CISPR 11:2015+AMD1:2016  
DIN EN 55011:2017-03  
*Only measurements of conducted disturbances at AC power ports*

## EMC

Industrial, scientific and medical equipment

CISPR 11:2015  
CISPR 11:2015/AMD1:2017  
EN 55011:2016 + A1:2017  
DIN EN 55011:2018-05  
*Only measurements of conducted disturbances at AC power ports*

## EMC

Household appliances, electric tools and similar apparatus

CISPR 14-1 2005 + AMD1:2008  
+ COR:2009 + AMD:2009  
DIN EN 55014-1:2012-05  
*Only measurements of conducted disturbances up to 30 MHz  
No disturbance power measurements,  
no radiated measurements*

## EMC

Household appliances, electric tools and similar apparatus

CISPR 14-1:2016 + COR1:2016  
+ ISH1:2017 + ISH2:2017  
EN 55014-1:2017  
DIN EN 55014-1:2018-08  
*Only measurements of conducted disturbances up to 30 MHz  
No disturbance power measurements,  
no radiated measurements*



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## EMC

Radio disturbances

CISPR 22:2008-09  
EN 55022:2010  
EN 55022:2010/AC:2011  
DIN EN 55022:2011-12+ Ber. 1:2016-08  
*Only measurements of conducted disturbances.*  
*No measurements with CVP.*

Authorized for testing:  
Winzinger  
Bonn  
Baumann

## EMC

Electromagnetic compatibility of multimedia equipment – Emission Requirements

CISPR 32:2015  
CISPR 32:2015/COR1:2016  
EN 55032:2015  
DIN EN 55032:2016-02  
*Only measurements of conducted disturbances.*  
*No measurements with CVP.*

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## EMC

Conducted disturbance measurements

CISPR 16-2-1:2014  
DIN EN 55016-2-1:2014-12  
*All clauses*

## EMC

Electrostatic discharge immunity test

IEC 61000-4-2:2008  
DIN EN 61000-4-2:2009-12  
*All clauses*

## EMC

Radiated, radio-frequency, electromagnetic field immunity test

IEC 61000-4-3:2006  
+AMD1:2007 + AMD2:2010  
DIN EN 61000-4-3:2011-04  
*All clauses, up to 6 GHz*

## EMC

Electrical fast transient/burst immunity test

IEC 61000-4-4:2012  
DIN EN 61000-4-4:2013-04  
*All clauses*

## EMC

Surge immunity test

IEC 61000-4-5:2014  
IEC 61000-4-5:2014/ AMD1:2017  
DIN EN 61000-4-5:2015-03  
*All clauses*

## EMC

Immunity to conducted disturbances, induced by radio-frequency fields

IEC 61000-4-6:2013 + COR1:2015  
DIN EN 61000-4-6:2014-08  
*All clauses*

## EMC

Voltage dips, short interruptions and voltage variations immunity tests

IEC 61000-4-11:2004 + AMD1:2017  
DIN EN 61000-4-11:2005-02  
+ E DIN EN 61000-4-11/A1:2016-10  
*All clauses*

## EMC

Ring wave immunity test

E DIN EN 61000-4-12:2017-06  
IEC 61000-4-12:2017-07  
*All clauses*





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## EMC

Test for immunity to conducted, common mode disturbances in the frequency range 0 Hz to 150 kHz

IEC 61000-4-16:2015-10  
DIN EN 61000-4-16:2016-10  
*All clauses*

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Baumann

## EMC

Limits for harmonic current emissions (equipment input current  $\leq 16$  A per phase)

IEC 61000-3-2:2018  
*All clauses*

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## EMC

Limits for harmonic current Emissions (equipment input current  $\leq 16$  A per phase)

IEC 61000-3-2:2014  
DIN EN 61000-3-2:2015-03  
*All clauses*

## EMC

Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current  $\leq 16$  A per phase and not subject to conditional connection

IEC 61000-3-3:2013  
IEC 61000-3-3:2013/ AMD1:2017  
DIN EN 61000-3-3:2014-03  
*All clauses*

## EMC

Immunity for residential, commercial and light-industrial environments

IEC 61000-6-1:2005  
DIN EN 61000-6-1:2007-10  
*All clauses*

## EMC

Immunity standard for residential, commercial and light-industrial environments

IEC 61000-6-1:2016  
E DIN EN 61000-6-1:2016-05  
*All clauses*

## EMC

Immunity standard for industrial environments

IEC 61000-6-2:2005  
DIN EN 61000-6-2:2006-03 +Ber.1:2011-06  
*All clauses*

## EMC

Immunity standard for industrial environments

IEC 61000-6-2:2016  
E DIN EN 61000-6-2:2016-05  
*All clauses*

## EMC

Generic standards – Emission standard for residential, commercial and light-industrial environments

IEC 61000-6-3:2006 + AMD1:2010  
DIN EN 61000-6-3:2011-09  
*Only measurements of conducted disturbances*



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## EMC

Generic standards – Emission standard for residential, commercial and light-industrial environments

IEC 61000-6-4:2018  
*Only measurements of conducted disturbances*

Authorized for testing:  
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Bonn  
Baumann

## EMC

Generic standards – Emission standard for industrial environments

IEC 61000-6-4:2006 + AMD1:2010  
DIN EN 61000-6-4:2011-09  
*Only measurements of conducted disturbances*

Authorized for countersign the test report:  
Knerer

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This document „TDAP SCOPE“ replaces all former documents „TDAP SCOPE“.

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Zertifizierung Produkte / *Certification Products*

2019-03-01 J. Richter

Merianstrasse 28, 63069 Offenbach, Germany  
phone +49 69 8306 0, fax: +49 69 8306 555  
e-mail: [vde-institut@vde.com](mailto:vde-institut@vde.com), [www.vde-institut.com](http://www.vde-institut.com)  
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