DAkkS
Deutsche
Akkreditierungsstelle

Deutsche Akkreditierungsstelle GmbH

Entrusted according to Section 8 subsection 1 AkkStelleG in connection with Section 1 subsection 1 AkkStelleGBV
Signatory to the Multilateral Agreements of EA, ILAC and IAF for Mutual Recognition

Accreditation

The Deutsche Akkreditierungsstelle GmbH attests that the testing laboratory

Phoenix Contact GmbH & Co. KG
Prüflabor TRABTECH
Flachsmarktstraße 8, 32825 Blomberg

is competent under the terms of DIN EN ISO/IEC 17025:2018 to carry out tests in the following fields:

Low-Voltage surge protective devices, plugs, socket outlets, vehicle connectors and vehicle inlets.

The accreditation certificate shall only apply in connection with the notice of accreditation of 12.04.2019 with the accreditation number D-PL-12161-03. It comprises the cover sheet, the reverse side of the cover sheet and the following annex with a total of 4 pages.

Registration number of the certificate: **D-PL-12161-03-00**

Frankfurt am Main, 29.05.2019

by order Dipl.-Ing. (FH) Ralf Egner
Head of Division

The certificate together with its annex reflects the status at the time of the date of issue. The current status of the scope of accreditation can be found in the database of accredited bodies of Deutsche Akkreditierungsstelle GmbH.
https://www.dakks.de/en/content/accredited-bodies-dakks

See notes overleaf.

Deutsche Akkreditierungsstelle GmbH

Office Berlin
Spittelmarkt 10
10117 Berlin

Office Frankfurt am Main
Europa-Allee 52
60327 Frankfurt am Main

Office Braunschweig
Bundesallee 100
38116 Braunschweig

The accreditation was granted pursuant to the Act on the Accreditation Body (AkkStelleG) of 31 July 2009 (Federal Law Gazette I p. 2625) and the Regulation (EC) No 765/2008 of the European Parliament and of the Council of 9 July 2008 setting out the requirements for accreditation and market surveillance relating to the marketing of products (Official Journal of the European Union L 218 of 9 July 2008, p. 30). DAkkS is a signatory to the Multilateral Agreements for Mutual Recognition of the European co-operation for Accreditation (EA), International Accreditation Forum (IAF) and International Laboratory Accreditation Cooperation (ILAC). The signatories to these agreements recognise each other's accreditations.

The up-to-date state of membership can be retrieved from the following websites:
EA: www.european-accreditation.org
ILAC: www.ilac.org
IAF: www.iaf.nu

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Annex to the Accreditation Certificate D-PL-12161-03-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 12.04.2019

Date of issue: 29.05.2019

Holder of certificate:

Phoenix Contact GmbH & Co. KG
Prüflabor TRABTECH
Flachsmarktstraße 8, 32825 Blomberg

Tests in the fields:

Low-Voltage surge protective devices, plugs, socket outlets, vehicle connectors and vehicle inlets.

The testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use standards or equivalent testing methods listed here with different issue dates.

The testing laboratory has a current list of all test methods used within the framework of a flexible accreditation scope.

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
	DIN EN 61643-11 VDE 0675-6-11 Issue date : 2019	Low-voltage surge protective devices - Part 11: Surge protective devices connected to low-voltage power systems - Requirements and test methods (IEC 61643-11:2011, modified)	Surge protection devices
	DIN EN 61643-11 VDE 0675-6-11 Issue date : 2012	Low-voltage surge protective devices – Part 11: Surge protective devices connected to low-voltage power systems – Requirements and test methods (IEC 61643-11:2011, modified);	Surge protection devices

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
	EN 61643-11/A11 Issue date : 2018	Low-voltage surge protective devices – Part 11: Surge protective devices connected to low-voltage power systems – Requirements and test methods	Surge protection devices
	IEC 61643-11 Issue date : 2011	Low-voltage surge protective devices - Part 11: Surge protective devices connected to low-voltage power distribution systems - Requirements and testing methods	Surge protection devices
	DIN EN 61643-21 VDE 0845-3-1 Issue date : 2013	Low voltage surge protective devices - Part 21: Surge protective devices connected to telecommunications and signalling networks - Performance requirements and testing methods (IEC 61643-21:2000 + corrigendum 2001 + A1:2008, modified + A2:2012);	Surge protection devices
	IEC 61643-21 Issue date : 2012	Low voltage surge protective devices - Part 21: Surge protective devices connected to telecommunications and signalling networks - Performance requirements and testing methods (Note: Combines IEC 61643-21 (2000-09), Corrigendum 1 (2001-03), AMD 1 (2008-04) and AMD 2 (2012-07) or IEC 61643-21 Edition 1.1 (2009-04) and AMD 2 (2012-07))	Surge protection devices
	DIN EN 61643-12 VDE 0675-6-12 Issue date : 2017	Low-voltage surge protective devices - Part 12: Surge protective devices connected to low-voltage power distribution systems - Selection and application principles (IEC 37A/287/CD:2016)	Surge protection devices
	IEC 61643-12 Issue date: 2008	Low-voltage surge protective devices - Part 12: Surge protective devices connected to low-voltage power distribution systems - Selection and application principles	Surge protection devices Tests according Annex J

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
	IEC 37A/305A/CD Issue date: 2017	Low-voltage surge protective devices - Part 12: Surge protective devices connected to low-voltage power distribution systems - Selection and application principles	Surge protection devices Tests according Annex J
	DIN CLC/TS 61643-12 VDE V0675-6-12 Issue date: 2010	Low-voltage surge protective devices - Part 12: Surge protective devices connected to low-voltage power distribution systems - Selection and application principles (IEC 61643-12:2008, modified)	Surge protection devices Tests according Annex J
	DIN EN 61643-31 VDE 0675-6-31 Issue date: 2015	Low-voltage surge protective devices - Part 31: Requirements and test methods for SPDs for photovoltaic installations (IEC 37A/255/CD:2014)	Surge protection devices
	FprEN 61643-31 Issue date: 2017	Low-voltage surge protective devices - Part 31: Requirements and test methods for SPDs for photovoltaic installations	Surge protection devices
	IEC 61643-31 Issue date: 2018	Low-voltage surge protective devices - Part 31: Requirements and test methods for SPDs for photovoltaic installations	Surge protection devices
	EN 50539-11 Issue date: 2013	Low-voltage surge protective devices - Surge protective devices for specific application including d.c. - Part 11: Requirements and tests for SPDs in photovoltaic applications	Surge protection devices
	DIN EN 50539-11 VDE 0675-39-11 DIN EN 50539-11/A1 VDE 0675-39-11/A1 Issue date: 2015	Low-voltage surge protective devices - Surge protective devices for specific application including d.c. - Part 11: Requirements and tests for SPDs in photovoltaic applications; German version EN 50539-11:2013/A1:2014	Surge protection devices

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
	UL 1449 Issue date : 2014	UL 1449 Surge protective devices Parts: 40: Surge Testing 43: Operational Voltage Test 44: Current Testing 48: Grounding Continuity Test 49: Fault Current Test 50: Overcurrent Test 51: Withstand Test 52: Instrumentation and Calibration of High-Capacity Circuits	Surge protection devices
	DIN EN 62196-1 VDE 0623-5-1 Issue date: 2015	Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 1: General requirements (IEC 62196-1:2014, modified); German version EN 62196-1:2014 12 Provisions for protective earthing 22 Breaking capacity 23 Normal operation 31 Conditional short-circuit current withstand test	plugs, socket outlets, vehicle connectors and inlets
	IEC 62196-1 Issue date: 2014	Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 1: General requirements Parts: 12 Provisions for protective earthing 22 Breaking capacity 23 Normal operation 31 Conditional short-circuit current withstand test	Plugs, socket-outlets, vehicle connectors and vehicle inlets