

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-19704-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 29.06.2022

Date of issue: 29.06.2022

Holder of certificate:

WAGO GmbH & Co. KG
Hansastraße 27, 32423 Minden

Tests in the fields:

Electrical and mechanical testing of terminals and connectors and environmental simulation

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 maintains a current list of all testing methods within the flexible scope of accreditation

Division	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
INSPG	DIN EN 60947-7-1:2010-03 IEC 60947-7-1:2009	Low-voltage switchgear and controlgear - Part 7-1: Ancillary equipment - Terminal blocks for copper conductors	

The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of testing laboratories. Laboratories that conform to the requirements of this standard, operate generally in accordance with the principles of DIN EN ISO 9001.

*The certificate together with the annex reflects the status as indicated by the date of issue.
The current status of any given scope of accreditation can be found in the directory of accredited bodies maintained by Deutsche Akkreditierungsstelle GmbH at <https://www.dakks.de/en/content/accredited-bodies-dakks>.*

Abbreviations used: see last page

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This document is a translation. The definitive version is the original German annex to the accreditation certificate.

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INSPG	DIN EN 60947-7-2:2010-03 IEC 60947-7-2:2009	Low-voltage switchgear and controlgear - Part 7-2: Ancillary equipment - Protective conductor terminal blocks for copper conductors	
	DIN EN 60947-7-3:2010-05 IEC 60947-7-3:2009	Low-voltage switchgear and controlgear - Part 7-3: Ancillary equipment - Safety requirements for fuse terminal blocks	
	DIN EN IEC 60947-7-4:2019- 10 IEC 60947-7-4:2019	Low-voltage switchgear and controlgear - Part 7-4: Ancillary equipment - PCB terminal blocks for copper conductors	
	DIN EN 60998-1:2005-03 IEC 60998-1:2002	Connecting devices for low-voltage circuits for household and similar purposes - Part 1: General requirements	
	DIN EN 60998-2-1:2005-03 IEC 60998-2-1:2002	Connecting devices for low-voltage circuits for household and similar purposes - Part 2-1: Particular requirements for connecting devices as separate entities with screw-type clamping units	Without part 14 pendular hammer tests for parts >50g Without part 16 Ball pressure test Without part 19 Determination of the comparative tracking index of solid insulation materials
	DIN EN 60998-2-2:2005-03 IEC 60998-2-2:2002	Connecting devices for low-voltage circuits for household and similar purposes - Part 2-2: Particular requirements for connecting devices as separate entities with screwless-type clamping units	Without part 14 pendular hammer tests for parts >50g Without part 16 Ball pressure test Without part 19

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			Determination of the comparative tracking index of solid insulation materials
INSPG	DIN EN 60998-2-3:2005-03 IEC 60998-2-3:2002 +Cor.1:2006	Connecting devices for low-voltage circuits for household and similar purposes - Part 2-3: Particular requirements for connecting devices as separate entities with insulation-piercing clamping units	Without part 14 pendular hammer tests for parts >50g Without part 16 Ball pressure test Without part 19 Determination of the comparative tracking index of solid insulation materials
	DIN EN 60999-1:2000-12 IEC 60999-1:1999	Connecting devices - Electrical copper conductors; Safety requirements for screw-type and screwless-type clamping units - Part 1: General requirements and particular requirements for clamping units for conductors 0,2 mm ² up to 35 mm ² (included)	
	DIN EN 60999-2:2004-04 IEC 60999-2:2003	Connecting devices - Electrical copper conductors - Safety requirements for screw-type and screwless-type clamping units - Part 2: Particular requirements for clamping units for conductors above 35 mm ² up to 300 mm ² (included)	

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	DIN EN IEC 61535:2020-08 IEC 61535:2019-10	Installation couplers intended for permanent connection in fixed installations	Without part 17 Breaking capacity with inductive load Without part 24.2 Resistance to tracking (proof-tracking index)
INSPG	DIN EN 61984:2009-11 +Ber.1:2012-03 IEC 61984:2008 +Cor.1:2011	Connectors - Safety requirements and tests	Without part 7.3.2 table 10 A2 Durability of marking Without part 7.3.5 Breaking capacity with inductive load table 11 B2 Without Annex A.2 Ball pressure test Without Annex A.3 Resistance to tracking (proof-tracking test)
	DIN EN 60695-2-10:2014-04 IEC 60695-2-10:2021	Fire hazard testing - Part 2-10: Glowing/hot-wire based test methods - Glow-wire apparatus and common test procedure	
	DIN EN 60695-2-11:2014-11 IEC 60695-2-11:2021	Fire hazard testing - Part 2-11: Glowing/hot-wire based test methods - Glow-wire flammability test method for end-products (GWEPT)	

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	DIN EN 60695-2-12:2015-01 IEC 60695-2-12:2021	Fire hazard testing - Part 2-12: Glowing/hot-wire based test methods - Glow-wire flammability index (GWFI) test method for materials	
	DIN EN 60695-2-13:2015-01 IEC 60695-2-13:2021	Fire hazard testing - Part 2-13: Glowing/hot-wire based test methods - Glow-wire ignition temperature (GWIT) test method for materials	
INSPG	DIN EN 60695-11-5:2017-12 IEC 60695-11-5:2016	Fire hazard testing - Part 11-5: Test flames - Needle-flame test method - Apparatus, confirmatory test arrangement and guidance	
	DIN EN 60529:2014-09 +Berichtigung1:2017-02 +Berichtigung2:2019-06 IEC 60529:1989-11 +AMD1:1999-11 +AMD2:2013-08 +Corrigenda until 2019-01	Degrees of protection provided by enclosures (IP Code)	Without IP5X and IP6X Without IPX3 until IPX9
	DIN EN 60512-1-1:2003-01 IEC 60512-1-1:2002	Connectors for electronic equipment - Tests and measurements - Part 1-1: General examination; Test 1a: Visual examination	
	DIN EN 60512-1-2:2003-01 IEC 60512-1-2:2002	Connectors for electronic equipment - Tests and measurements - Part 1-2: General examination; Test 1b: Examination of dimension and mass	
	DIN EN 60512-2-1:2003-01 IEC 60512-2-1:2002	Connectors for electronic equipment - Tests and measurements - Part 2-1: Electrical continuity and contact resistance tests; Test 2a: Contact resistance; Millivolt level method	

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	DIN EN 60512-2-2:2004-01 IEC 60512-2-2:2003	Connectors for electronic equipment - Tests and measurements - Part 2-2: Electrical continuity and contact resistance tests - Test 2b: Contact resistance - Specified test current method	
	DIN EN 60512-3-1:2003-01 IEC 60512-3-1:2002	Connectors for electronic equipment - Tests and measurements - Part 3-1: Insulation tests; Test 3a: Insulation resistance	
INSPG	DIN EN 60512-4-1:2004-01 IEC 60512-4-1:2003	Connectors for electronic equipment - Tests and measurements - Part 4-1: Voltage stress tests - Test 4a: Voltage proof	
	DIN EN 60512-5-1:2013-01 + Berichtigung1:2015-06 IEC 60512-5-1:2002	Connectors for electronic equipment - Tests and measurements - Part 5-1: Current-carrying capacity tests; Test 5a: Temperature rise	
	DIN EN 60512-5-2:2003-01 IEC 60512-5-2:2002	Connectors for electronic equipment - Tests and measurements - Part 5-2: Current-carrying capacity tests; Test 5b: Current-temperature derating	
	DIN EN 60512-6-2:2003-01 IEC 60512-6-2:2002	Connectors for electronic equipment - Tests and measurements - Part 6-2: Dynamic stress tests; Test 6b: Bump	
	DIN EN 60512-6-3:2003-01 IEC 60512-6-3:2002	Connectors for electronic equipment - Tests and measurements - Part 6-3: Dynamic stress tests - Test 6c – Shock	
	DIN EN 60512-6-4:2003-01 IEC 60512-6-4:2002	Connectors for electronic equipment - Tests and measurements - Part 6-4: Dynamic stress tests; Test 6d: Vibration (sinusoidal)	

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	DIN EN 60512-15-1:2009-03 IEC 60512-15-1:2008	Connectors for electronic equipment - Tests and measurements - Part 15-1: Connector tests (mechanical) - Test 15a: Contact retention in insert	
	DIN EN 60512-9-1:2010-12 IEC 60512-9-1:2010	Connectors for electronic equipment - Tests and measurements - Part 9-1: Endurance tests - Test 9a: Mechanical operation	
INSPG	DIN EN 60512-7-2:2012-09 IEC 60512-7-2:2011	Connectors for electronic equipment - Tests and measurements - Part 7-2: Impact tests (free connectors) - Test 7b: Mechanical strength impact	
	DIN EN 60512-11-9:2003-01 IEC 60512-11-9:2002	Connectors for electronic equipment - Tests and measurements - Part 11-9: Climatic tests; Test 11i: Dry heat	
	DIN EN 60512-11-10:2003- 01 IEC 60512-11-10:2002	Connectors for electronic equipment - Tests and measurements - Part 11-10: Climatic tests; Test 11j: Cold	
	DIN EN 60512-13-5:2006-11 +Berichtigung 1:2008-11 IEC 60512-13-5:2006	Connectors for electronic equipment - Tests and measurements - Part 13-5: Mechanical operation tests - Test 13e: Polarizing and keying method	
	DIN EN 60512-17-3:2011-06 IEC 60512-17-3:2010	Connectors for electronic equipment - Tests and measurements - Part 17-3: Cable clamping tests - Test 17c: Cable clamp resistance to cable pull (tensile)	
	DIN EN 60512-17-4:2011-06 IEC 60512-17-4:2010	Connectors for electronic equipment - Tests and measurements - Part 17-4: Cable clamping tests - Test 17d: Cable clamp resistance to cable torsion	
Enviromental simulation	DIN EN 60068-2-1:2008-01 IEC 60068-2-1:2007	Environmental testing - Part 2-1: Tests - Test A: Cold	

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	DIN EN 60068-2-2:2008-05 IEC 60068-2-2:2007	Environmental testing - Part 2-2: Tests - Test B: Dry heat	
	DIN EN 60068-2-6:2008-10 IEC 60068-2-6:2007	Environmental testing - Part 2-6: Tests - Test Fc: Vibration (sinusoidal)	
	DIN EN 60068-2-11:2000-02 IEC 60068-2-11:2021	Environmental testing - Part 2: Tests; test Ka: Salt mist	
Environmental simulation	DIN EN 60068-2-14:2010-04 IEC 60068-2-14:2009	Environmental testing - Part 2-14: Tests - Test N: Change of temperature	
	DIN EN 60068-2-20:2009-02 +Berichtigung1:2009-05 IEC 60068-2-20:2021	Environmental testing - Part 2-20: Tests - Test T: Test methods for solderability and resistance to soldering heat of devices with leads	
	DIN EN 60068-2-27:2010-02 IEC 60068-2-27:2008	Environmental testing - Part 2-27: Tests - Test Ea and guidance: Shock	
	DIN EN 60068-2-30:2006-06 IEC 60068-2-30:2005	Environmental testing - Part 2-30: Tests - Test Db: Damp heat, cyclic (12 h + 12 h cycle)	
	DIN EN IEC 60068-2- 52:2018-08 + Berichtigung1:2019-02 IEC 60068-2-52:2017	Environmental testing - Part 2-52: Tests - Test Kb: Salt mist, cyclic (sodium chloride solution)	
	DIN EN 60068-2-64:2009-04 IEC 60068-2-64:2008 +AMD1:2019-10	Environmental testing - Part 2-64: Tests - Test Fh: Vibration, broadband random and guidance	
	DIN EN 60068-2-75:2015-08 IEC 60068-2-75:2014	Environmental testing - Part 2-75: Tests - Test Eh: Hammer tests	Without examination Eha: pendulum hammer
	DIN EN 60068-2-78:2014-02 IEC 60068-2-78:2012	Environmental testing - Part 2-78: Tests - Test Cab: Damp heat, steady state	

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	DIN EN ISO 6988:1997-03 ISO 6988:1985	Metallic and other non-organic coatings - Sulfur dioxide test with general condensation of moisture	

Abbreviations used:

DIN Deutsches Institut für Normung e.V.
NDS In house method of the CAB