

Deutsche Akkreditierungsstelle GmbH

**Annex to the Accreditation Certificate D-PL-19125-01-00  
according to DIN EN ISO/IEC 17025:2018**

**Valid from: 23.04.2020**

Date of issue: 16.09.2020

Holder of certificate:

**Institute for International Product Safety GmbH  
Hein-Moeller-Straße 7-11, 53115 Bonn**

Tests in the fields:

**Industrial low-voltage switchgear and controlgear, Assemblies, Safety of electrical equipment,  
Electromagnetic compatibility (EMC)  
Environmental tests  
Road vehicles (Automotive)**

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

*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>*

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## 1. Standards for flexible scope of accreditation

### 1.1. Flexible scope of accreditation Category I

The testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, the free choice of standard or equivalent testing methods.

The listed testing methods are exemplary. The testing laboratory maintains a current list of all testing methods within the flexible scope of accreditation.

#### 1.1.1. Climatic Test

Kind of Test	Test parameter	Range	Representative test method
Temperature	Temperature	-70...+1100 °C	IEC 60068-2-1 IEC 60068-2-2
Climate	Temperature	+10...+95 °C	IEC 60068-2-30
	Relative humidity	15...98 % r.H.	IEC 60068-2-38 IEC 60068-2-67 IEC 60068-2-78
Thermal shock (Air/Air)	Temperature	-80...+220 °C	IEC 60068-2-14 Na
Change of temperature	Temperature	-40...+140 °C	IEC 60068-2-14 Nb
	Speed of change	15 K/min	

#### 1.1.2. Corrosive Tests

Kind of Test	Test parameter	Range	Representative test method
Salt mist	Concentration of solution	5 % NaCl	IEC 60068-2-11 ISO 9227 IEC 60068-2-52 ASTM B117-09 UL 50 E
	Temperature of test chamber	RT...50 °C	
	Relative humidity of test chamber	40...100 % r.H.	
Condensation water atmosphere	Temperature of test chamber	RT...50 °C	ISO 6270-2
	Relative humidity of test chamber	100 % r.H.	

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Kind of Test	Test parameter	Range	Representative test method
Sulfur dioxide	Temperature of test chamber	15...60 °C	IEC 60068-2-42 ISO 6988
	Relative humidity of test chamber	10...100 % r.H.	
	Corrosive gas	25 ppm SO <sub>2</sub>	
Resistance to abrasion	Pressing force	1 ... 100 N	IEC 60068-2-70
	Number of actuation	10 <sup>1</sup> ... 10 <sup>7</sup>	

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### 1.1.3. Mechanical-dynamic tests

Kind of Test	Test parameter	Range	Representative test method
Impact Test	Impact energy	0,14 ... 50 J	IEC 60068-2-75 Ehb, Ehc EN 50102 IEC 62262
Free fall Drop and topple	Fall height	0 ... 1000 mm	IEC 60068-2-31 <sup>1</sup>
	Case file	Wood, concrete, steel	

Vibration and shock tests under ambient conditions according to EN 60068-1			
Vibration, sinusoidal	Frequency	5 Hz ... 3000 Hz	IEC 60068-2-6
	Acceleration sinusoidal	up to 91 g	
Vibration broad-band random	Frequency	5 Hz ... 3000 Hz	IEC 60068-2-64
	Acceleration (RMS)	up to 60 g	IEC 60068-2-80
Shock, bump	Duration	up to 21 ms	IEC 60068-2-27
	Acceleration shock	up to 180 g	IEC 60068-2-29
	Pulse shape	Half-sine	

Vibration and shock tests with temperature and climate overlay			
Vibrations, sinusoidal	Frequency	5 Hz ... 3000 Hz	IEC 60068-2-6
	Acceleration sinusoidal	up to 91 g	
	Temperature	-40...+140 °C	
	Relative humidity	15...98 %RF	
Vibration broad-band random	Frequency	5 Hz ... 3000 Hz	IEC 60068-2-64
	Acceleration (RMS)	up to 60 g	IEC 60068-2-80
	Temperature	-40...+140 °C	
	Relative humidity	15...98 %RF	
Shock, bump	Shock duration	up to 21 ms	IEC 60068-2-27
	Acceleration shock	up to 180 g	IEC 60068-2-29
	Shock form	Half-sine	
	Temperature	-40...+140 °C	
	Relative humidity	15...98 %RF	

<sup>1</sup> no Test "Free fall repeated – Procedure 2"

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## 1.2. Flexible scope of accreditation Category III

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.

Division	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
<b>1.2.1. Industrial low-voltage switchgear and controlgear (INSpg)</b>			
INSpg	DIN EN 60255-1 VDE 0435-300:2010	Measuring relays and protection equipment - Part 1: Common requirements (IEC 60255-1:2009) German version EN 60255-1:2010	
INSpg	IEC 60255-1:2009	Measuring relays and protection equipment - Part 1: Common requirements	
INSpg	DIN EN 60255-3 VDE 0435-3013:1998	Electrical relays - Part 3: Single input energizing quantity measuring relays with dependent or independent time (IEC 60255-3:1989, modified) German version EN 60255-3:1998	
INSpg	IEC 60255-3:1989	Electrical relays; part 3: single input energizing quantity measuring relays with dependent or independent time	
INSpg	DIN EN 60255-6 VDE 0435-301:1994	Electrical relays - Part 6: Measuring relays and protection equipment (IEC 60255-6:1988, modified) German version EN 60255-6:1994	
INSpg	IEC 60255-6:1998	Electrical relays; part 6: measuring relays and protection equipment	
INSpg	DIN EN 60255-151 VDE 0435-3151:2010	Measuring relays and protection equipment - Part 151: Functional requirements for over/under current protection (IEC 60255-151:2009) German version EN 60255-151:2009	
INSpg	IEC 60255-151:2009	Measuring relays and protection equipment - Part 151: Functional requirements for over/under current protection	

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INSpG	DIN EN 60269-1 VDE 0636-1:2015	Low-voltage fuses - Part 1: General requirements (IEC 60269-1:2006 + A1:2009 + A2:2014) German version EN 60269-1:2007 + A1:2009 + A2:2014	
INSpG	IEC 60269-1:2006-11 + A1 :2009 + A2:2014	Low-voltage fuses - Part 1: General requirements	
INSpG	DIN VDE 0636-2 VDE 0636-2:2014	Low-voltage fuses - Part 2: Supplementary requirements for fuses for use by authorized persons (fuses mainly for industrial application) - Examples of standardized systems of fuses A to K (IEC 60269-2:2013, modified) German version HD 60269-2:2013	
INSpG	IEC 60269-2:2013 + A1:2016	Low-voltage fuses - Part 2: Supplementary requirements for fuses for use by authorized persons (fuses mainly for industrial application) - Examples of standardized systems of fuses A to K	
INSpG	DIN VDE 0636-3 VDE 0636-3:2013	Low-voltage fuses - Part 3: Supplementary requirements for fuses for use by unskilled persons (fuses mainly for household and similar applications) - Examples of standardized systems of fuses A to F (IEC 60269-3:2010, modified + A1:2013 + Corrigendum March 2013 + Corrigendum June 2013) German version HD 60269-3:2010 + A1:2013	
INSpG	IEC 60269-3:2010-05 + A1:2013	Low-voltage fuses - Part 3: Supplementary requirements for fuses for use by unskilled persons (fuses mainly for household and similar applications) - Examples of standardized systems of fuses A to F	

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INSpG	DIN EN 60269-4 VDE 0636-4:2017	Low-voltage fuses - Part 4: Supplementary requirements for fuse-links for the protection of semiconductor devices (IEC 60269-4:2009 + A1:2012 + A2:2016) German version EN 60269-4:2009 + A1:2012 + A2:2016	
INSpG	IEC 60269-4:2009 + A1:2012 + A2:2016	Low-voltage fuses - Part 4: Supplementary requirements for fuse-links for the protection of semiconductor devices	
INSpG	DIN EN 60269-6 VDE 0636-6:2011	Low-voltage fuses - Part 6: Supplementary requirements for fuse-links for the protection of solar photovoltaic energy systems (IEC 60269-6:2010 + corrigendum Dec. 2010) German version EN 60269-6:2011	
INSpG	IEC 60269-6:2010	Low-voltage fuses - Part 6: Supplementary requirements for fuse-links for the protection of solar photovoltaic energy systems	
INSpG	DIN EN 60439-1 VDE 0660-500:2005	Low-voltage switchgear and controlgear assemblies - Part 1: Type-tested and partially type- tested assemblies (IEC 60439-1:1999 + A1:2004) German version EN 60439-1:1999 + A1:2004	
INSpG	IEC 60439-1:1999-09 + A1:2004	Low-voltage switchgear and controlgear assemblies - Part 1: Type-tested and partially type- tested assemblies	
INSpG	DIN EN 60439-2 VDE 0660-502:2006	Low-voltage switchgear and controlgear assemblies - Part 2: Particular requirements for busbar trunking systems (busways) (IEC 60439-2:2000 + A1:2005) German version EN 60439-2:2000 + A1:2005	

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INSpG	IEC 60439-2:2000-03 + A1:2005	Low-voltage switchgear and controlgear assemblies - Part 2: Particular requirements for busbar trunking systems (busways)	
INSpG	DIN EN 60439-3 VDE 0660-504:2002	Low-voltage switchgear and controlgear assemblies - Part 3: Particular requirements for low-voltage switchgear and controlgear assemblies intended to be installed in places where unskilled persons have access for their use Distribution boards (IEC 60439-3:1990 + A1:1993 + A2:2001) German version EN 60439-3:1991 + Corrigendum 1994 + A1:1994 + A2:2001	
INSpG	IEC 60439-3:1990-12 + A1:1993 + A2:2001	Low-voltage switchgear and controlgear assemblies; part 3 particular requirements for low-voltage switchgear and controlgear assemblies intended to be installed in places where unskilled persons have access for their use; distribution boards	
INSpG	DIN EN 60439-4 VDE 0660-501:2005	Low-voltage switchgear and controlgear assemblies - Part 4: Particular requirements for assemblies for construction sites (ACS) (IEC 60439-4:2004) German version EN 60439-4:2004	
INSpG	IEC 60439-4:2004	Low-voltage switchgear and controlgear assemblies - Part 4: Particular requirements for assemblies for construction sites (ACS)	
INSpG	DIN EN 60439-5 VDE 0660-503:2007	Low-voltage switchgear and controlgear assemblies - Part 5: Particular requirements for assemblies for power distribution in public networks (IEC 60439-5:2006) German version EN 60439-5:2006	

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INSpG	IEC 60439-5:2006	Low-voltage switchgear and controlgear assemblies - Part 5: Particular requirements for assemblies for power distribution in public networks	
INSpG	DIN EN 60529 VDE 0470-1:2014	Degrees of protection provided by enclosures (IP Code) (IEC 60529:1989 + A1:1999 + A2:2013) German version EN 60529:1991 + A1:2000 + A2:2013	
INSpG	IEC 60529:1989-11 + A1:1999 + A2:2013	Degrees of protection provided by enclosures (IP code)	
INSpG	DIN EN 60664-1 VDE 0110-1:2008	Insulation coordination for equipment within low-voltage systems - Part 1: Principles, requirements and tests (IEC 60664-1:2007) German version EN 60664-1:2007	
INSpG	IEC 60664-1:2007	Insulation coordination for equipment within low-voltage systems - Part 1: Principles, requirements and tests	
INSpG	DIN EN 60947-1 VDE 0660-100:2015	Low-voltage switchgear and controlgear - Part 1: General rules (IEC 60947-1:2007 + A1:2010 + A2:2014) German version EN 60947-1:2007 + A1:2011 + A2:2014	
INSpG	IEC 60947-1:2007 + A1:2010 + A2:2014	Low-voltage switchgear and controlgear - Part 1: General rules	
INSpG	DIN EN 60947-2 VDE 0660-101:2018	Low-voltage switchgear and controlgear - Part 2: Circuit-breakers (IEC 60947-2:2016 + COR1:2016) German version EN 60947-2:2017	
INSpG	IEC 60947-2:2016 + A1:2019	Low-voltage switchgear and controlgear - Part 2: Circuit-breakers	
INSpG	DIN EN 60947-3 VDE 0660-107:2017	Low-voltage switchgear and controlgear - Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units (IEC 60947-3:2008 + A1:2012 + A2:2015) German version EN 60947-3:2009 + A1:2012 + A2:2015	

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INSpG	IEC 60947-3:2008 + A1:2012 + A2:2015	Low-voltage switchgear and controlgear - Part 3: Switches, disconnectors, switch- disconnectors and fuse-combination units	
INSpG	DIN EN 60947-4-1 VDE 0660-102:2014	Low-voltage switchgear and controlgear - Part 4-1: Contactors and motor-starters - Electromechanical contactors and motor- starters (IEC 60947-4-1:2009 + A1:2012) German version EN 60947-4-1:2010 + A1:2012	
INSpG	EN IEC 60947-4-1	Low-voltage switchgear and controlgear - Part 4-1: Contactors and motor-starters - Electromechanical contactors and motor- starters (IEC 60947-4-1:2018)	
INSpG	IEC 60947-4-1:2018	Low-voltage switchgear and controlgear - Part 4-1: Contactors and motor-starters - Electromechanical contactors and motor- starters	
INSpG	DIN EN 60947-4-2 VDE 0660-117:2013	Low-voltage switchgear and controlgear - Part 4-2: Contactors and motor-starters - AC semiconductor motor controllers and starters (IEC 60947-4-2:2011 + Cor.: 2012) German version EN 60947-4-2:2012	
INSpG	IEC 60947-4-2:2011 + Cor1: 2012	Low-voltage switchgear and controlgear - Part 4-2: Contactors and motor-starters - AC semiconductor motor controllers and starters	
INSpG	DIN EN 60947-4-3 VDE 0660-109:2015	Low-voltage switchgear and controlgear - Part 4-3: Contactors and motor-starters - AC semiconductor controllers and contactors for non-motor loads (IEC 60947-4-3:2014) German version EN 60947-4-3:2014	
INSpG	IEC 60947-4-3:2014	Low-voltage switchgear and controlgear - Part 4-3: Contactors and motor-starters - AC semiconductor controllers and contactors for non-motor loads	

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INSpG	DIN EN 60947-5-1 VDE 0660-200:2018	Low-voltage switchgear and controlgear - Part 5-1: Control circuit devices and switching elements - Electromechanical control circuit devices (IEC 60947-5-1:2016 + COR1:2016) German version EN 60947-5-1:2017	
INSpG	IEC 60947-5-1:2016 + Cor1:2016	Low-voltage switchgear and controlgear - Part 5-1: Control circuit devices and switching elements - Electromechanical control circuit devices	
INSpG	DIN EN 60947-5-2 VDE 0660-208:2014	Low-voltage switchgear and controlgear - Part 5-2: Control circuit devices and switching elements - Proximity switches (IEC 60947-5-2:2007 + A1:2012) German version EN 60947-5-2:2007 + A1:2012	
INSpG	IEC 60947-5-2:2007-10 + A1:2012	Low-voltage switchgear and controlgear - Part 5-2: Control circuit devices and switching elements - Proximity switches	
INSpG	DIN EN 60947-5-3 VDE 0660-214:2014	Low-voltage switchgear and controlgear - Part 5-3: Control circuit devices and switching elements - Requirements for proximity devices with defined behaviour under fault conditions (PDDB) (IEC 60947-5-3:2013) German version EN 60947-5-3:2013	
INSpG	IEC 60947-5-3:2013	Low-voltage switchgear and controlgear - Part 5-3: Control circuit devices and switching elements - Requirements for proximity devices with defined behaviour under fault conditions (PDDB)	
INSpG	DIN EN 60947-5-4 VDE 0660-211:2005	Low-voltage switchgear and controlgear - Part 5-4: Control circuit devices and switching elements - Method of assessing the performance of low-energy contacts - Special tests (IEC 60947-5-4:2002) German version EN 60947-5-4:2003	

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INSpG	IEC 60947-5-4:2002	Low-voltage switchgear and controlgear - Part 5-4: Control circuit devices and switching elements; Method of assessing the performance of low-energy contacts; Special tests	
INSpG	DIN EN 60947-5-5 VDE 0660-210:2017	Low-voltage switchgear and controlgear - Part 5-5: Control circuit devices and switching elements - Electrical emergency stop device with mechanical latching function (IEC 60947-5-5:1997 + A1:2005 + A2:2016) German version EN 60947-5-5:1997 + A1:2005 + A11:2013 + A2:2017	
INSpG	IEC 60947-5-5:1997-11 + A1:2005 + A2:2016	Low-voltage switchgear and controlgear - Part 5-5: Control circuit devices and switching elements - Electrical emergency stop device with mechanical latching function	
INSpG	DIN EN 60947-6-1 VDE 0660-114:2014	Low-voltage switchgear and controlgear - Part 6-1: Multiple function equipment - Transfer switching equipment (IEC 60947-6-1:2005 + A1:2013) German version EN 60947-6-1:2005 + A1:2014	
INSpG	IEC 60947-6-1:2005 + A1:2013	Low-voltage switchgear and controlgear - Part 6-1: Multiple function equipment - Transfer switching equipment	
INSpG	DIN EN 60947-6-2 VDE 0660-115:2007	Low-voltage switchgear and controlgear - Part 6-2: Multiple function equipment - Control and protective switching devices (or equipment) (CPS) (IEC 60947-6-2:2002 + A1:2007) German version EN 60947-6-2:2003 + A1:2007	
INSpG	IEC 60947-6-2:2002 + A1:2007	Low-voltage switchgear and controlgear - Part 6-2: Multiple function equipment Control and protective switching devices (or equipment) (CPS)	

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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 VDE 0611-1:2010	Low-voltage switchgear and controlgear - Part 7-1: Ancillary equipment - Terminal blocks for copper conductors (IEC 60947-7-1:2009) German version EN 60947-7-1:2009	
INSpG	IEC 60947-7-1:2009	Low-voltage switchgear and controlgear - Part 7-1: Ancillary equipment - Terminal blocks for copper conductors	
INSpG	DIN EN 60947-7-2 VDE 0611-3:2010	Low-voltage switchgear and controlgear - Part 7-2: Ancillary equipment - Protective conductor terminal blocks for copper conductors (IEC 60947-7-2:2009) German version EN 60947-7-2:2009	
INSpG	IEC 60947-7-2:2009	Low-voltage switchgear and controlgear - Part 7-2: Ancillary equipment - Protective conductor terminal blocks for copper conductors	
INSpG	DIN EN 60947-8 VDE 0660-302:2013	Low-voltage switchgear and controlgear - Part 8: Control units for built-in thermal protection (PTC) for rotating electrical machines (IEC 60947-8:2003 + A1:2006 + A2:2011) German version EN 60947-8:2003 + A1:2006 + A2:2012	
INSpG	IEC 60947-8:2003 +A1:2006 + A2:2011	Low-voltage switchgear and controlgear - Part 8: Control units for built-in thermal protection (PTC) for rotating electrical machines	
INSpG	DIN EN IEC 60947-9-1 VDE 0660-120:2019	Low-voltage switchgear and controlgear - Part 9-1: Active arc-fault mitigation systems - Arc quenching devices (IEC 60947-9-1:2019); German version EN IEC 60947-9-1:2019	No power frequency magnetic fields
INSpG	IEC 60947-9-1:2019	Low-voltage switchgear and controlgear - Part 9-1: Active arc-fault mitigation systems - Arc quenching devices	No power frequency magnetic fields
INSpG	DIN EN 61131-1:2004	Programmable controllers - Part 1: General information (IEC 61131-1:2003) German version EN 61131-1:2003	

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INSpG	IEC 61131-1:2003	Programmable controllers - Part 1: General information	
INSpG	DIN EN 61131-2 VDE 0411-500:2008	Programmable controllers - Part 2: Equipment requirements and tests (IEC 61131-2:2007) German version EN 61131-2:2007	
INSpG	IEC 61131-2:2017	Programmable controllers – Part 2: Equipment requirements and tests	
INSpG	DIN EN 61439-1 VDE 0660-600-1:2012	Low-voltage switchgear and controlgear assemblies - Part 1: General rules (IEC 61439-1:2011) German version EN 61439-1:2011	
INSpG	IEC 61439-1:2011	Low-voltage switchgear and controlgear assemblies - Part 1: General rules	
INSpG	DIN EN 61439-2 VDE 0660-600-2:2012	Low-voltage switchgear and controlgear assemblies - Part 2: Power switchgear and controlgear assemblies (IEC 61439-2:2011) German version EN 61439-2:2011	
INSpG	IEC 61439-2:2011	Low-voltage switchgear and controlgear assemblies - Part 2: Power switchgear and controlgear assemblies	
INSpG	DIN EN 61439-3 VDE 0660-600-3:2013	Low-voltage switchgear and controlgear assemblies - Part 3: Distribution boards intended to be operated by ordinary persons (DBO) (IEC 61439-3:2012) German version EN 61439-3:2012	
INSpG	IEC 61439-3:2012	Low-voltage switchgear and controlgear assemblies - Part 3: Distribution boards intended to be operated by ordinary persons (DBO)	

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INSpG	DIN EN 61439-4 VDE 0660-600-4:2013	Low-voltage switchgear and controlgear assemblies - Part 4: Particular requirements for assemblies for construction sites (ACS) (IEC 61439-4:2012) German version EN 61439-4:2013	
INSpG	IEC 61439-4:2012	Low-voltage switchgear and controlgear assemblies - Part 4: Particular requirements for assemblies for construction sites (ACS)	
INSpG	DIN EN 61439-5 VDE 0660-600-5:2015	Low-voltage switchgear and controlgear assemblies - Part 5: Assemblies for power distribution in public networks (IEC 61439-5:2014 + Cor.:2015) German version EN 61439-5:2015	
INSpG	IEC 61439-5:2014 + Cor1:2015	Low-voltage switchgear and controlgear assemblies - Part 5: Assemblies for power distribution in public networks	
INSpG	DIN EN 61439-6 VDE 0660-600-6:2013	Low-voltage switchgear and controlgear assemblies - Part 6: Busbar trunking systems (busways) (IEC 61439-6:2012) German version EN 61439-6:2012	
INSpG	IEC 61439-6:2012	Low-voltage switchgear and controlgear assemblies - Part 6: Busbar trunking systems (busways)	
INSpG	DIN IEC/TS 61439-7 VDE V 0660-600-7:2014	Low-voltage switchgear and controlgear assemblies - Part 7: Assemblies for specific applications such as marinas, camping sites, market squares, electric vehicles charging stations (IEC/TS 61439-7:2014)	UV radiation and mechanical tests
INSpG	IEC 61439-7:2018	Low-voltage switchgear and controlgear assemblies - Part 7: Assemblies for specific applications such as marinas, camping sites, market squares, electric vehicles charging stations	UV radiation and mechanical tests

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INSpG	DIN EN 61800-3 VDE 0160-103:2019	Adjustable speed electrical power drive systems - Part 3: EMC requirements and specific test methods (IEC 61800-3:2004 + A1:2011) German version EN 61800-3:2004 + A1:2012	Tests for equipment with rated voltages up to 400 V and rated currents up to 16 A.
INSpG	IEC 61800-3:2017	Adjustable speed electrical power drive systems - Part 3: EMC requirements and specific test methods	Tests for equipment with rated voltages up to 400 V and rated currents up to 16 A.
INSpG	DIN EN 61800-5-1 VDE 0160-105-1:2017	Adjustable speed electrical power drive systems - Part 5-1: Safety requirements - Electrical, thermal and energy (IEC 61800-5-1:2007 + A1:2016) German version EN 61800-5-1:2007 + A1:2017	
INSpG	IEC 61800-5-1:2007-07 + A1:2016	Adjustable speed electrical power drive systems - Part 5-1: Safety requirements - Electrical, thermal and energy	
INSpG	DIN EN 61810-1 VDE 0435-201:2015	Electromechanical elementary relays - Part 1: General and safety requirements (IEC 61810-1:2015) German version EN 61810-1:2015	
INSpG	IEC 61810-1:2015	Electromechanical elementary relays - Part 1: General and safety requirements	
INSpG	DIN EN 61812-1 VDE 0435-2021:2012	Time relays for industrial and residential use - Part 1: Requirements and tests (IEC 61812-1:2011) German version EN 61812-1:2011	
INSpG	IEC 61812-1:2011	Time relays for industrial and residential use - Part 1: Requirements and tests	
INSpG	DIN EN 61921 VDE 0560-700:2004	Power capacitors - Low-voltage power factor correction banks (IEC 61921:2003) German version EN 61921:2003	

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INSpG	IEC 61921:2017	Power capacitors - Low-voltage power factor correction banks	
INSpG	DIN EN 62208 VDE 0660-511:2012	Empty enclosures for low-voltage switchgear and controlgear assemblies - General requirements (IEC 62208:2011) German version EN 62208:2011	
INSpG	IEC 62208:2011	Empty enclosures for low-voltage switchgear and controlgear assemblies - General requirements	
INSpG	DIN EN 50102 DIN EN 62262 VDE 0470-100:1997 +A1:1999	Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code) German version EN 50102:1995	
INSpG	IEC 62262:2002	Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)	
INSpG	DIN EN 62477-1 VDE 0558-477-1:2017	Safety requirements for power electronic converter systems and equipment - Part 1: General (IEC 62477-1:2012 + A1:2016) German version EN 62477-1:2012 + A11:2014 + A1:2017	
INSpG	IEC 62477-1:2012 +A1:2016	Safety requirements for power electronic converter systems and equipment - Part 1: General	
INSpG	DIN EN 50178 VDE 0160:1998-	Electronic equipment for use in power installations German version EN 50178:1997	
INSpG	EN 50178:1997	Electronic equipment for use in power installations	
INSpG	DIN 57220-3 DIN VDE 0220-3 VDE 0220-3:1977	Specifications for single- and multiple cable clamps with insulating parts in electrical power cable installations up to 1000 V	
INSpG	DIN VDE 0603-1 VDE 0603-1:2017	Meter panels - Part 1: General requirements	

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INSpG	DIN EN 60670-24 VDE 0606-24:2014	Boxes and enclosures for electrical accessories for household and similar fixed electrical installations - Part 24: Particular requirements for enclosures for housing protective devices and other power dissipating electrical equipment (IEC 60670-24:2011, modified) German version EN 60670-24:2013	
INSpG	IEC 60670-24:2011	Boxes and enclosures for electrical accessories for household and similar fixed electrical installations - Part 24: Particular requirements for enclosures for housing protective devices and other power dissipating electrical equipment	
INSpG	DIN VDE 0603-2 VDE 0603-2:1998	Customer distribution boards and meter panels AC 400 V - Main line branch terminals	
INSpG	DIN VDE 0603-3-1 VDE 0603-3-1:2018	Meter panels – Part 3-1: Main line branch terminals	
INSpG	DIN VDE 0611-4 VDE 0611-4:1991	Terminal blocks for connecting copper conductors Distribution terminal blocks up to 6 mm <sup>2</sup>	
INSpG	DIN VDE 0660-505 VDE 0660-505:2018	Low-voltage switchgear and controlgear assemblies - Part 505: Specification for house connection boxes and fuseboxes	
<b>1.2.2. Safety of electrical equipment (SEB)</b>			
SEB	DIN EN 60112 VDE 0303-11:2010	Method for the determination of the proof and the comparative tracking indices of solid insulating materials (IEC 60112:2003 + A1:2009) German version EN 60112:2003 + A1:2009	
SEB	IEC 60112:2003-01 +A1:2009	Method for the determination of the proof and the comparative tracking indices of solid insulating materials	

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SEB	DIN EN 60204-1 VDE 0113-1:2019	Safety of machinery - Electrical equipment of machines - Part 1: General requirements (IEC 60204-1:2005, modified + A1:2008) German version EN 60204-1:2006 + A1:2009	
SEB	IEC 60204-1:2016	Safety of machinery - Electrical equipment of machines - Part 1: General Requirements	
SEB	DIN EN 60695-2-10 VDE 0471-2-10:2014	Fire hazard testing - Part 2-10: Glowing/hot-wire based test methods - Glow-wire apparatus and common test procedure (IEC 60695-2-10:2013) German version EN 60695-2-10:2013	
SEB	IEC 60695-2-10:2013	Fire hazard testing - Part 2-10: Glowing/hot-wire based test methods - Glow-wire apparatus and common test procedure	
SEB	DIN EN 60695-2-11 VDE 0471-2-11:2014	Fire hazard testing - Part 2-11: Glowing/hot-wire based test methods - Glow-wire flammability test method for end-products (GWEPT) (IEC 60695-2-11:2014) German version EN 60695-2-11:2014	
SEB	IEC 60695-2-11:2014	Fire hazard testing - Part 2-11: Glowing/hot-wire based test methods - Glow-wire flammability test method for end-products (GWEPT)	
SEB	DIN EN 60695-2-12 VDE 0471-2-12:2015	Fire hazard testing - Part 2-12: Glowing/hot-wire based test methods - Glow-wire flammability index (GWFI) test method for materials (IEC 60695-2-12:2010 + A1:2014) German version EN 60695-2-12:2010 + A1:2014	

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SEB	IEC 60695-2-12:2010-10 + A1:2014	Fire hazard testing - Part 2-12: Glowing/hot-wire based test methods - Glow-wire flammability index (GWFI) test method for materials	
SEB	DIN EN 60695-2-13 VDE 0471-2-13:2015	Fire hazard testing - Part 2-13: Glowing/hot-wire based test methods - Glow-wire ignition temperature (GWIT) test method for materials (IEC 60695-2-13:2010 + Cor.:2012 + A1:2014) German version EN 60695-2-13:2010 + A1:2014	
SEB	IEC 60695-2-13:2010-10 +A1:2014	Fire hazard testing - Part 2-13: Glowing/hot-wire based test methods - Glow-wire ignition temperature (GWIT) test method for materials	
SEB	DIN EN 60695-10-2 VDE 0471-10-2:2016	Fire hazard testing - Part 10-2: Abnormal heat - Ball pressure test method (IEC 60695-10-2:2014) German version EN 60695-10-2:2014	
SEB	IEC 60695-10-2:2014	Fire hazard testing - Part 10-2: Abnormal heat; Ball pressure test	
SEB	DIN EN 60695-11-5 VDE 0471-11-5:2017	Fire hazard testing - Part 11-5: Test flames - Needle-flame test method - Apparatus, confirmatory test arrangement and guidance (IEC 60695-11-5:2016) German version EN 60695-11-5:2017	
SEB	IEC 60695-11-5:2016	Fire hazard testing - Part 11-5: Test flames - Needle-flame test method - Apparatus, confirmatory test arrangement and guidance	

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SEB	DIN EN 60695-11-10 VDE 0471-11-10:2014	Fire hazard testing - Part 11-10: Test flames - 50 W horizontal and vertical flame test methods (IEC 60695-11-10:2013) German version EN 60695-11-10:2013	
SEB	IEC 60695-11-10:2013	Fire hazard testing - Part 11-10: Test flames - 50 W horizontal and vertical flame test methods	
SEB	DIN EN 60695-11-20 VDE 0471-11-20:2016	Fire hazard testing - Part 11-20: Test flames - 500 W flame test methods (IEC 60695-11-20:2015 + COR1:2016) German version EN 60695-11-20:2015 + AC:2016	
SEB	IEC 60695-11-20:2015 + Cor.1:2016	Fire hazard testing - Part 11-20: Test flames - 500 W flame test method	
SEB	DIN EN 60898-1 VDE 0641-11:2006 + A12:2009 + A13:2013	Electrical accessories - Circuit-breakers for overcurrent protection for household and similar installations - Part 1: Circuit-breakers for a.c. operation (IEC 60898-1:2002, modified + A1:2002, modified) German version EN 60898-1:2003 + A1:2004 + Corrigendum 2004 + A11:2005 + A12:2008 + A13:2012	
SEB	EN 60898-1:2019	Electrical accessories - Circuit-breakers for overcurrent protection for household and similar installations - Part 1: Circuit- breakers for a.c. operation (IEC 60898-1:2015, modified)	
SEB	IEC 60898-1:2015	Electrical accessories - Circuit-breakers for overcurrent protection for household and similar installations - Part 1: Circuit-breakers for a.c. operation	

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SEB	DIN EN 60898-2 VDE 0641-12:2007	Electrical accessories - Circuit-breakers for overcurrent protection for household and similar installations - Part 2: Circuit-breakers for a.c. and d.c. operation (IEC 60898-2:2000 + A1:2003, modified) German version EN 60898-2:2006	
SEB	IEC 60898-2:2016	Electrical accessories - Circuit-breakers for overcurrent protection for household and similar installations - Part 2: Circuit-breakers for AC and DC operation	
SEB	DIN EN 60934 VDE 0642:2013	Circuit-breakers for equipment (CBE) (IEC 60934:2000 + A1:2007 + A2:2013) German version EN 60934:2001 + A1:2007 + A2:2013	
SEB	IEC 60934:2019	Circuit-breakers for equipment (CBE)	
SEB	DIN EN 60999-1 VDE 0609-1:2000	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 <sup>2</sup> up to 35 mm <sup>2</sup> (Included) (IEC 60999-1:1999, modified) German version EN 60999-1:2000	
SEB	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 from 0,2 mm <sup>2</sup> up to 35 mm <sup>2</sup> (included)	

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SEB	DIN EN 60999-2 VDE 0609-101:2004	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 <sup>2</sup> up to 300 mm <sup>2</sup> (Included) (IEC 60999-2:2003) German version EN 60999-2:2003	
SEB	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 from 35 mm <sup>2</sup> up to 300 mm <sup>2</sup> (included)	
SEB	DIN EN 61008-1 VDE 0664-10:2018	Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs) - Part 1: General rules (IEC 61008-1:2010, modified + A1:2012, modified + A1:2012/COR1:2016 + A2:2013, modified + A2:2013/Cor.:2014) German version EN 61008-1:2012 + A1:2014 + A1:2014/AC:2016 + A2:2014 + A11:2015 + A12:2017	
SEB	IEC 61008-1:2010-02 +A1:2012 + A2:2013	Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs) - Part 1: General rules	
SEB	DIN EN 61008-2-1 VDE 0664-11:1999	Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCB's) - Part 2-1: Applicability of the general rules to RCCB's functionally independent of line voltage (IEC 61008-2-1:1990) German version EN 61008-2-1:1994 + A11:1998 + Corrigendum March 1999	

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SEB	IEC 61008-2-1:1990	Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCB's) Part 2-1: applicability of the general rules to RCCB's functionally independent of line voltage	
SEB	DIN EN 61009-1 VDE 0664-20:2016	Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs) - Part 1: General rules (IEC 61009-1:2010, modified + A1:2012, modified + A1:2012/Cor.:2012 + A2:2013, modified + A2:2013/Cor.:2014) German version EN 61009-1:2012 + A1:2014 + A2:2014 + A11:2015 + A12:2016	
SEB	IEC 61009-1:2010-02 +A1:2012 + A2:2013	Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs) - Part 1: General rules	
SEB	DIN EN 61010-1 VDE 0411-1:2011	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 1: General requirements (IEC 61010-1:2010 + Cor. :2011) German version EN 61010-1:2010	
SEB	IEC 61010-1:2010-06 +A1:2016	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	
SEB	DIN EN IEC 61010-2-201 VDE 0411-2-201:2019	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-201: Particular requirements for control equipment (IEC 61010-2-201:2013) German version EN 61010-2-201:2013 + AC:2013	
SEB	IEC 61010-2-201:2017	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-201: Particular requirements for control equipment	

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Division	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
SEB	DIN EN 61058-1 VDE 0630-1:2018	Switches for appliances - Part 1: General requirements (IEC 61058-1:2016, German version EN IEC 61058-1:2018)	
SEB	IEC 61058-1:2016	Switches for appliances - Part 1: General requirements	
SEB	DIN EN 61058-1-1:2017	Switches for appliances - Part 1-1: Requirements for mechanical switches (IEC 61058-1-1:2016) German version EN 61058-1-1:2016	
SEB	IEC 61058-1-1:2016	Switches for appliances - Part 1-1: Requirements for mechanical switches	
SEB	DIN EN 61058-1-2:2017	Switches for appliances - Part 1-2: Requirements for electronic switches (IEC 61058-1-2:2016) German version EN 61058-1-2:2016	
SEB	IEC 61058-1-2:2016	Switches for appliances - Part 1-2: Requirements for electronic switches	
SEB	DIN EN 61058-2-1 VDE 0630-2-1:2011	Switches for appliances - Part 2-1: Particular requirements for cord switches (IEC 61058-2-1:2010) German version EN 61058-2-1:2011	
SEB	IEC 61058-2-1:2018	Switches for appliances - Part 2-1: Particular requirements for cord switches	
SEB	DIN EN 61095 VDE 0637-3:2009	Electromechanical contactors for household and similar purposes (IEC 61095:2009) German version EN 61095:2009	
SEB	IEC 61095:2009	Electromechanical contactors for household and similar purposes	

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Division	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
SEB	DIN EN 61557-1 VDE 0413-1:2007	Electrical safety in low voltage distribution systems up to 1000 V a.c. and 1500 V d.c. - Equipment for testing, measuring or monitoring of protective measures - Part 1: General requirements (IEC 61557-1:2007) German version EN 61557-1:2007	
SEB	IEC 61557-1:2007	Electrical safety in low voltage distribution systems up to 1000 V a.c. and 1500 V d.c. - Equipment for testing, measuring or monitoring of protective measures - Part 1: General requirements	
SEB	DIN EN 61557-12 VDE 0413-12:2008	Electrical safety in low voltage distribution systems up to 1000 V a.c. and 1500 V d.c. - Equipment for testing, measuring or monitoring of protective measures - Part 12: Performance measuring and monitoring devices (PMD) (IEC 61557-12:2007) German version EN 61557-12:2008	
SEB	IEC 61557-12:2018	Electrical safety in low voltage distribution systems up to 1000 V a.c. and 1500 V d.c. - Equipment for testing, measuring or monitoring of protective measures - Part 12: Performance measuring and monitoring devices (PMD)	
SEB	DIN EN 50102 DIN EN 62262 VDE 0470-100:1997 +A1:1999	Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code) German version EN 50102:1995	
SEB	IEC 62262:2002	Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)	
SEB	DIN VDE 0664-101 VDE 0664-101:2003	Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs) - Part 101: Applicability of the general rules to RCCBs for rated voltage exceeding 440 V AC or rated current exceeding 125 A	

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Division	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
<b>1.2.3. Electromagnetic Compatibility (EMC)</b>			
<b>1.2.3.1. Basic standards</b>			
EMV	DIN EN 61000-4-2 VDE 0847-4-2:2009	Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test (IEC 61000-4-2:2008) German version EN 61000-4-2:2009	
EMV	IEC 61000-4-2:2008	Electromagnetic compatibility (EMC) - Part 4-2: Testing and measuring techniques - Electrostatic discharge immunity test	
EMV	DIN EN 61000-4-3 VDE 0847-4-3:2011	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test (IEC 61000-4-3:2006 + A1:2007 + A2:2010) German version EN 61000-4-3:2006 + A1:2008 + A2:2010	
EMV	IEC 61000-4-3:2006 + A1:2007 + A2:2010	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	
EMV	DIN EN 61000-4-4 VDE 0847-4-4:2013	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test (IEC 61000-4-4:2012) German version EN 61000-4-4:2012	
EMV	IEC 61000-4-4:2012	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	

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EMV	DIN EN 61000-4-5 VDE 0847-4-5:2019	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test (IEC 61000-4-5:2014) German version EN 61000-4-5:2014	
EMV	IEC 61000-4-5:2014 + AMD 1:2017	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test	
EMV	DIN EN 61000-4-6 VDE 0847-4-6:2014	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields (IEC 61000-4-6:2013) German version EN 61000-4-6:2014	
EMV	IEC 61000-4-6:2013	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	
EMV	DIN EN 61000-4-11 VDE 0847-4-11:2019	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests (IEC 61000-4-11:2004 + A1:2017) German version EN 61000-4-11:2004 + A1:2017	
EMV	IEC 61000-4-11:2004 + A1:2017	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests	

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EMV	DIN EN 61000-4-13 VDE 0847-4-13:2016	Electromagnetic compatibility (EMC) - Part 4-13: Testing and measurement techniques - Harmonics and interharmonics including mains signalling at a.c. power port, low frequency immunity tests (IEC 61000-4-13:2002 + A1:2009 + A2:2015) German version EN 61000-4-13:2002 + A1:2009 + A2:2016	
EMV	IEC 61000-4-13:2002 + A1:2009 + A2:2015	Electromagnetic compatibility (EMC) - Part 4-13: Testing and measurement techniques - Harmonics and interharmonics including mains signalling at a.c. power port, low frequency immunity tests	
EMV	DIN EN 61000-4-14 VDE 0847-4-14:2010	Electromagnetic compatibility (EMC) - Part 4-14: Testing and measurement techniques - Voltage fluctuation immunity test for equipment with input current not exceeding 16 A per phase (IEC 61000-4-14:1999 + A1:2001 + A2:2009) German version EN 61000-4-14:1999 + A1:2004 + A2:2009	
EMV	IEC 61000-4-14:1999 + A1:2001 + A2:2009	Electromagnetic compatibility (EMC) - Part 4-14: Testing and measurement techniques - Voltage fluctuation immunity test	
EMV	DIN EN 61000-4-17 VDE 0847-4-17:2005 + A2:2009	Electromagnetic compatibility (EMC) - Part 4-17: Testing and measurement techniques - Ripple on d.c. input power port immunity test (IEC 61000-4-17:1999 + A1:2001 + A2:2008) German version EN 61000-4-17:1999 + A1:2004 + A2:2009	

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EMV	IEC 61000-4-17:1999 + A1:2001 + A2:2008	Electromagnetic compatibility (EMC) - Part 4-17: Testing and measuring techniques - Ripple on d.c. input power port, immunity test	
EMV	DIN EN 61000-4-27 VDE 0847-4-27:2009	Electromagnetic compatibility (EMC) - Part 4-27: Testing and measurement techniques - Unbalance, immunity test for equipment with input current not exceeding 16 A per phase (IEC 61000-4-27:2000 + A1:2009) German version EN 61000-4-27:2000 + A1:2009	
EMV	IEC 61000-4-27:2000 + A1:2009	Electromagnetic compatibility (EMC) - Part 4-27: Testing and measurement techniques - Unbalance, immunity test for equipment with input current not exceeding 16 A per phase	
EMV	DIN EN 61000-4-28 VDE 0847-4-28:2009	Electromagnetic compatibility (EMC) - Part 4-28: Testing and measurement techniques - Variation of power frequency, immunity test for equipment with input current not exceeding 16 A per phase (IEC 61000-4-28:1999 + A1:2001 + A2:2009) German version EN 61000-4-28:2000 + A1:2004 + A2:2009	
EMV	IEC 61000-4-28:1999 + A1:2001 + A2:2009	Electromagnetic compatibility (EMC) - Part 4-28: Testing and measurement techniques - Variation of power frequency, immunity test for equipment with input current not exceeding 16 A per phase	

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EMV	DIN EN 61000-4-29 VDE 0847-4-29:2001	Electromagnetic compatibility (EMC) - Part 4-29: Testing and measurement techniques Voltage dips, short interruptions and voltage variations on d.c. input power port immunity tests (IEC 61000-4-29:2000) German version EN 61000-4-29:2000	
EMV	IEC 61000-4-29:2000	Electromagnetic compatibility (EMC) - Part 4-29: Testing and measurement techniques Voltage dips, short interruptions and voltage variations on d.c. input power port immunity tests	
<b>1.2.3.2. Generic standards</b>			
EMV	DIN EN 61000-6-1 VDE 0839-6-1:2007	Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments (IEC 61000-6-1:2005) German version EN 61000-6-1:2007	No Power frequency magnetic field immunity test
EMV	EN IEC 61000-6-1:2019	Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity standard for residential, commercial and light-industrial environments (IEC 61000-6-1:2016)	No Power frequency magnetic field immunity test
EMV	IEC 61000-6-1:2016	Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity standard for residential, commercial and light-industrial environments	No Power frequency magnetic field immunity test
EMV	DIN EN 61000-6-2 VDE 0839-6-2:2006	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments (IEC 61000-6-2:2005) German version EN 61000-6-2:2005	No Power frequency magnetic field immunity test
EMV	EN IEC 61000-6-2:2019	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments (IEC 61000-6-2:2016)	

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EMV	IEC 61000-6-2:2016	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments	No Power frequency magnetic field immunity test
EMV	DIN EN 61000-6-3 VDE 0839-6-3:2011	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments (IEC 61000-6-3:2006 + A1:2010) German version EN 61000-6-3:2007 + A1:2011	
EMV	IEC 61000-6-3:2006 + A1:2010	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments	
EMV	DIN EN 61000-6-4 VDE 0839-6-4:2011	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments (IEC 61000-6-4:2006 + A1:2010) German version EN 61000-6-4:2007 + A1:2011	
EMV	IEC 61000-6-4:2018	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments	
<b>1.2.3.3. Product standards</b>			
EMV	DIN EN 55011 VDE 0875-11:2018	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement (CISPR 11:2015, modified + A1:2017) German version EN 55011:2016 + A1:2017	

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EMV	CISPR 11:2015 + A1:2016	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement	
EMV	DIN EN 55022 VDE 0878-22:2011	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement (CISPR 22:2008, modified) German version EN 55022:2010	
EMV	CISPR 22:2008	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	
EMV	EN 55032:2015	Electromagnetic compatibility of multimedia equipment - Emission Requirements (CISPR 32:2015) German version EN 55032:2015	
EMV	CISPR 32:2015	Electromagnetic compatibility of multimedia equipment - Emission requirements	
EMV	DIN EN 61000-3-2 VDE 0838-2:2015	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current $\leq$ 16 A per phase) (IEC 61000-3-2:2014) German version EN 61000-3-2:2014	
EMV	EN IEC 61000-3-2:2019	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current $\leq$ 16 A per phase) (IEC 61000-3-2:2018)	
EMV	IEC 61000-3-2:2018	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current $\leq$ 16 A per phase)	

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Division	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
EMV	DIN EN 61000-3-3 VDE 0838-3:2014	Electromagnetic compatibility (EMC) - Part 3-3: Limits - 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) German version EN 61000-3-3:2013	
EMV	IEC 61000-3-3:2013 + A1:2017	Electromagnetic compatibility (EMC) - Part 3-3: Limits - 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	
<b>1.2.4. Environmental tests (UMW)</b>			
UMW	DIN EN 60068-2-1 VDE 0468-2-1:2008	Environmental testing - Part 2-1: Tests - Test A: Cold (IEC 60068-2-1:2007) German version EN 60068-2-1:2007	
UMW	IEC 60068-2-1:2007	Environmental testing - Part 2-1: Tests - Test A: Cold	
UMW	DIN EN 60068-2-2 VDE 0468-2-2:2008	Environmental testing - Part 2-2: Tests - Test B: Dry heat (IEC 60068-2-2:2007) German version EN 60068-2-2:2007	
UMW	IEC 60068-2-2:2007	Environmental testing - Part 2-2: Tests - Test B: Dry heat	

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UMW	DIN EN 60068-2-6 VDE 0468-2-2:2008	Environmental testing - Part 2-6: Tests - Test Fc: Vibration (sinusoidal) (IEC 60068-2-6:2007) German version EN 60068-2-6:2008	
UMW	IEC 60068-2-6:2007	Environmental testing - Part 2-6: Tests - Test Fc: Vibration (sinusoidal)	
UMW	DIN EN 60068-2-11:2000	Environmental testing - Part 2: Tests Test Ka: Salt mist (IEC 60068-2-11:1981) German version EN 60068-2-11:1999	
UMW	IEC 60068-2-11:1981	Basic environmental testing procedures Part 2 : Tests Test Ka: Salt mist	
UMW	DIN EN 60068-2-14 VDE 0468-2-14:2010	Environmental testing - Part 2-14: Tests - Test N: Change of temperature (IEC 60068-2-14:2009) German version EN 60068-2-14:2009	
UMW	IEC 60068-2-14:2009	Environmental testing - Part 2-14: Tests - Test N: Change of temperature	
UMW	DIN EN 60068-2-18:2018	Environmental testing - Part 2-18: Tests - Test R and guidance: Water (IEC 60068-2-18:2017) German version EN 60068-2-18:2017	Test Rc: Depth of immersion up to 2 m. Method Ra 2: Drip box with 20 mm distance of spray valves and flat valves. Inclination of test specimen 15°.

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UMW	IEC 60068-2-18:2017	Environmental testing - Part 2-18: Tests - Test R and guidance: Water	Test Rc: Depth of immersion up to 2 m. Method Ra 2: Drip box with 20 mm distance of spray valves and flat valves. Inclination of test specimen 15°.
UMW	DIN EN 60068-2-27 VDE 0468-2-27:2010	Environmental testing - Part 2-27: Tests - Test Ea and guidance: Shock (IEC 60068-2-27:2008) German version EN 60068-2-27:2009	
UMW	IEC 60068-2-27:2008	Environmental testing - Part 2-27: Tests - Test Ea and guidance: Shock	
UMW	DIN EN 60068-2-29:1995	Basic environmental testing procedures - Part 2: Tests; test Eb and guidance: Bump (IEC 60068-2-29:1987); German version EN 60068-2-29:1993	
UMW	IEC 60068-2-29:1987	Basic environmental testing procedures Part 2 : Tests Test Eb and guidance: Bump	
UMW	DIN EN 60068-2-30:2006	Environmental testing - Part 2-30: Tests - Test Db: Damp heat, cyclic (12 h + 12 h cycle) (IEC 60068-2-30:2005) German Version EN 60068-2-30:2005	
UMW	IEC 60068-2-30:2005	Environmental testing - Part 2-30: Tests - Test Db: Damp heat, cyclic (12 h + 12 h cycle)	

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Division	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
UMW	DIN EN 60068-2-31 VDE 0468-2-31:2009	Environmental testing - Part 2-31: Tests - Test Ec: Rough handling shocks, primarily for equipment-type specimens (IEC 60068-2-31:2008) German version EN 60068-2-31:2008	
UMW	IEC 60068-2-31:2008	Environmental testing - Part 2-31: Tests - Test Ec: Rough handling shocks, primarily for equipment-type specimens	
UMW	DIN EN 60068-2-38 VDE 0468-2-38:2010	Environmental testing - Part 2-38: Tests - Test Z/AD: Composite temperature/humidity cyclic test (IEC 60068-2-38:2009) German version EN 60068-2-38:2009	
UMW	IEC 60068-2-38:2009	Environmental testing - Part 2-38: Tests - Test Z/AD: Composite temperature/humidity cyclic test	
UMW	DIN EN 60068-2-45:1994	Basic environmental testing procedures Part 2: Tests Test XA and guidance: immersion in cleaning solvents (IEC 60068-2-45:1980 + A1:1993) German version EN 60068-2-45:1992 + A1:1993	
UMW	IEC 60068-2-45:1980 + A1:1993	Environmental testing Part 2: Tests Test XA and guidance: Immersion in cleaning solvents	
UMW	DIN EN 60068-2-52:2018	Environmental testing - Part 2: Tests, Test Kb: Salt mist, cyclic (sodium chloride solution) (IEC 60068-2-52:1996) German version EN 60068-2-52:1996	Without test method 7 and 8

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UMW	IEC 60068-2-52:2017-11	Environmental testing Part 2-52: Tests Test Kb: Salt mist, cyclic (sodium chloride solution)	Without test method 7 und 8
UMW	DIN EN 60068-2-64 VDE 0468-2-64:2009	Environmental testing - Part 2-64: Tests - Test Fh: Vibration, broadband random and guidance (IEC 60068-2-64:2008) German version EN 60068-2-64:2008	
UMW	IEC 60068-2-64:2008	Environmental testing - Part 2-64: Tests - Test Fh: Vibration, broad-band random and guidance	
UMW	DIN EN 60068-2-67:1996	Environmental testing - Part 2-67: Test; test Cy: Damp heat, steady state, accelerated test primarily intended for components (IEC 60068-2-67:1995) German version EN 60068-2-67:1996	
UMW	IEC 60068-2-67:1995	Environmental testing - Part 2: Tests - Test Cy: Damp heat, steady state, accelerated test primarily intended for components	
UMW	DIN EN 60068-2-70:1996	Environmental testing - Part 2: Tests - Test Xb: Abrasion of markings and letterings caused by rubbing of fingers and hands (IEC 60068-2-70:1995) German version EN 60068-2-70:1996	
UMW	IEC 60068-2-70:1995	Environmental testing - Part 2: Tests – Test Xb: Abrasion of markings and letterings caused by rubbing of fingers and hands	

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Division	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
UMW	DIN EN 60068-2-75:2015	Environmental testing - Part 2-75: Tests - Test Eh: Hammer tests (IEC 60068-2-75:2014) German version EN 60068-2-75:2014	
UMW	IEC 60068-2-75:2014	Environmental testing - Part 2-75: Tests - Test Eh: Hammer tests	
UMW	DIN EN 60068-2-78:2014	Environmental testing - Part 2-78: Tests - Test Cab: Damp heat, steady state (IEC 60068-2-78:2012) German version EN 60068-2-78:2013	
UMW	IEC 60068-2-78:2012	Environmental testing - Part 2-78: Tests - Test Cab: Damp heat, steady state	
UMW	DIN EN 60068-2-80:2006	Environmental testing - Part 2-80: Tests - Test Fi: Vibration - Mixed mode (IEC 60068-2-80:2005); German version EN 60068-2-80:2005	
UMW	IEC 60068-2-80:2005	Environmental testing - Part 2-80: Tests - Test Fi: Vibration - Mixed mode	
UMW	DIN EN ISO 6270-2:2018	Paints and varnishes - Determination of resistance to humidity - Part 2: Condensation (In-cabinet exposure with heated water reservoir) (ISO 6270-2:2017) German version EN ISO 6270-2:2018	
UMW	ISO 6270-2:2017	Paints and varnishes - Determination of resistance to humidity - Part 2: Condensation (in-cabinet exposure with heated water reservoir)	

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Division	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
UMW	DIN EN ISO 6988:1997	Metallic and other non-organic coatings - Sulfur dioxide test with general condensation of moisture (ISO 6988:1985) German version EN ISO 6988:1994	
UMW	ISO 6988:1985	Metallic and other non organic coatings Sulfur dioxide test with general condensation of moisture	
UMW	DIN EN ISO 9227:2017	Corrosion tests in artificial atmospheres - Salt spray tests (ISO 9227:2017) German version EN ISO 9227:2017	
UMW	ISO 9227:2017	Corrosion tests in artificial atmospheres - Salt spray tests	
UMW	DIN EN ISO 10289:2001	Methods for corrosion testing of metallic and other inorganic coatings on metallic substrates - Rating of test specimens and manufactured articles subjected to corrosion tests (ISO 10289:1999) German version EN ISO 10289:2001	
UMW	ISO 10289:1999	Methods for corrosion testing of metallic and other inorganic coatings on metallic substrates - Rating of test specimens and manufactured articles subjected to corrosion tests	
UMW	ISO 20653:2013	Road vehicles - Degrees of protection (IP code) - Protection of electrical equipment against foreign objects, water and access	
UMW	ISO 22479:2019	Corrosion of metals and alloys - Sulfur dioxide test in a humid atmosphere (fixed gas method)	

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UMW	DIN 40050-9:1993	Road vehicles; degrees of protection (IP-code); protection against foreign objects; water and contact; electrical equipment	
UMW	DIN 50018:2013	Testing in a saturated atmosphere in the presence of sulfur dioxide	
<b>1.6. Road vehicles (Automotive)</b>			
Automotive Components	ISO 8820-1:2014	Road vehicles - Fuse-links - Part 1: Definitions and general test requirements	
Automotive Components	ISO 8820-2:2014	Road vehicles - Fuse-links - Part 2: User guidelines	
Automotive Components	ISO 8820-3:2015	Road vehicles - Fuse-links - Part 3: Fuse-links with tabs (blade type) Type C (medium), Type E (high current) and Type F (miniature)	
Automotive Components	ISO 8820-4:2016	Road vehicles - Fuse-links - Part 4: Fuse-links with female contacts (type A) and bolt-in contacts (type B) and their test fixtures	
Automotive Components	ISO 8820-5:2015	Road vehicles - Fuse-links - Part 5: Fuse-links with axial terminals (Strip fuse-links) Types SF 30 and SF 51 and test fixtures	
Automotive Components	DIN ISO 8820-6:2011	Road vehicles - Fuse-links - Part 6: Single-bolt fuse-links (ISO 8820-6:2007)	
Automotive Components	ISO 8820-6:2019	Road vehicles - Fuse-links - Part 6: Single-bolt fuse-links	
Automotive Components	ISO 8820-8:2012	Road vehicles - Fuse-links - Part 8: Fuse-links with bolt-in contacts (Type H and J) with rated voltage of 450 V	

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Automotive Components	ISO 8820-9:2014	Road vehicles - Fuse-links - Part 9: Fuse-links with shortened tabs (Type K)	
Automotive Components	ISO 8820-10:2015	Road vehicles - Fuse-links - Part 10: Fuse-links with tabs Type L (high current miniature)	
Automotive Components	ISO 16750-2:2012	Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 2: Electrical loads	Without test 4.4 4.6.2 4.6.3 4.6.4 4.8
Automotive Components	ISO 16750-3:2012	Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 3: Mechanical loads	without cl. 4.4 and 4.5
Automotive Components	ISO 16750-4:2010	Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 4: Climatic loads	without cl. 4.5, 5.8 and 5.9
Automotive Components	ISO 16750-5:2010	Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 5: Chemical loads	
Automotive Components	DIN EN 13018:2016	Non-destructive testing - Visual testing - General principles; German version EN 13018:2016	
Automotive Components	VW 75174:2010	Automotive connectors - Test specification	without B19.4, B23.1, B23.2, E2.1, E3.1
Automotive Components	VW 80000:2017	Electrical and electronic components in motor vehicles up to 3.5 t General requirements, test conditions and tests	without E-04, E-06 – E-11, E-13, E-15 M-02, M-07, K-12, K-15, K-17, K-18, L-01

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Division	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Automotive Components	MBN LV124-1:2013	Electrical and electronic components in motor vehicles up to 3.5 t General requirements, test conditions and tests Part 1: Electrical requirements and tests 12 V electrical system	without E-04, E-06 – E-11, E-13, E-15
Automotive Components	MBN LV124-2:2013	Electrical and electronic components in motor vehicles up to 3.5 t General requirements, test conditions and tests Part 2: Environmental requirements	without M-02, M-07, K-12, K-15, K-17, K-18, L-01
Automotive Components	MBN 10306:2018	Electrical and electronic components in motor vehicles - Environmental requirements and testing	without M-02, M-07, K-12, K-15, K-17, K-18, L-01
Automotive Components	BMW GS 95024-2-1:2010	Electrical and electronic components in motor vehicles – Electrical requirements and tests	without E-04, E-06 – E-11, E-13, E-15
Automotive Components	BMW GS 95024-3-1:2013	Electrical and electronic components in motor vehicles – Environmental requirements and tests	without M-02, M-07, K-12, K-15, K-17, K-18, L-01
Automotive Components	DIN EN 60512-1-1:2003	Connectors for electronic equipment - Tests and measurements - Part 1-1: General examination Test 1a: Visual examination (IEC 60512-1-1:2002) German version EN 60512-1-1:2002	
Automotive Components	IEC 60512-1-1:2002	Connectors for electronic equipment - Tests and measurements - Part 1-1: General examination Test 1a: Visual examination	
Automotive Components	DIN EN 60512-1-2:2003	Connectors for electronic equipment - Tests and measurements - Part 1-2: General examination Test 1b: Examination of dimension and mass (IEC 60512-1-2:2002) German version EN 60512-1-2:2002	

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Division	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Automotive Components	IEC 60512-1-2:2002	Connectors for electronic equipment - Tests and measurements - Part 1-2: General examination Test 1b: Examination of dimension and mass	
Automotive Components	DIN EN 60512-1-3:1998	Electromechanical components for electronic equipment - Basic testing procedures and measuring methods - Part 1: General examination - Section 3: Test 1c - Electrical engagement length (IEC 60512-1-3:1997) German version EN 60512-1-3:1997	
Automotive Components	IEC 60512-1-3:1997	Electromechanical components for electronic equipment - Basic testing procedures and measuring methods - Part 1: General examination - Section 3: Test 1c - Electrical engagement length	
Automotive Components	DIN EN 60512-1-4:1998 + Berichtigung 1:2012	Electromechanical components for electronic equipment - Basic testing procedures and measuring methods - Part 1: General - Section 4: Test 1d: Contact protection effectiveness (scoop-proof) (IEC 60512-1-4:1997) German version EN 60512-1-4:1997 (IEC-Cor. :2000 to IEC 60512-1-4:1997)	
Automotive Components	IEC 60512-1-4:1997 + Corrigendum 1:2000	Electromechanical components for electronic equipment - Basic testing procedures and measuring methods - Part 1: General - Section 4: Test 1d: Contact protection effectiveness (scoop-proof)	

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Automotive Components	DIN EN 60512-2-1:2003	Connectors for electronic equipment - Tests and measurements - Part 2-1: Electrical continuity and contact resistance tests Test 2a: Contact resistance - Millivolt level method (IEC 60512-2-1:2002) German version EN 60512-2-1:2002	
Automotive Components	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	
Automotive Components	DIN EN 60512-2-2:2004	Connectors for electronic equipment - Tests and measurements - Part 2-2: Electrical continuity and contact resistance tests Test 2b: Contact resistance; Specified test current method (IEC 60512-2-2:2003) German version EN 60512-2-2:2003	
Automotive Components	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	
Automotive Components	DIN EN 60512-3-1:2003	Connectors for electronic equipment - Tests and measurements - Part 3-1: Insulation tests Test 3a: Insulation resistance (IEC 60512-3-1:2002) German version EN 60512-3-1:2002	
Automotive Components	IEC 60512-3-1:2002	Connectors for electronic equipment - Tests and measurements - Part 3-1: Insulation tests Test 3a: Insulation resistance	

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Automotive Components	DIN EN 60512-5-1:2003 + Berichtigung 1: 2015	Connectors for electronic equipment - Tests and measurements - Part 5-1: Current-carrying capacity tests Test 5a: Temperature rise (IEC 60512-5-1:2002) German version EN 60512-5-1:2002	
Automotive Components	IEC 60512-5-1:2002	Connectors for electronic equipment - Tests and measurements - Part 5-1: Current-carrying capacity tests Test 5a: Temperature rise	
Automotive Components	DIN EN 60512-5-2:2003	Connectors for electronic equipment - Tests and measurements - Part 5-2: Current-carrying capacity tests Test 5b: Current-temperature derating (IEC 60512-5-2:2002) German version EN 60512-5-2:2002	
Automotive Components	IEC 60512-5-2:2002	Connectors for electronic equipment - Tests and measurements - Part 5-2: Current-carrying capacity tests Test 5b: Current-temperature derating	
Automotive Components	DIN EN 60512-13-5:2006 +Berichtigung 1:2008	Connectors for electronic equipment - Tests and measurements - Part 13-5: Mechanical operation tests - Test 13e: Polarizing and keying method (IEC 60512-13-5:2006) German version EN 60512-13-5:2006	
Automotive Components	IEC 60512-13-5:2006	Connectors for electronic equipment - Tests and measurements - Part 13-5: Mechanical operation tests - Test 13e: Polarizing and keying method	

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Division	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Automotive Components	DIN EN 60512-15-6:2009	Connectors for electronic equipment - Tests and measurements - Part 15-6: Connector tests (mechanical) - Test 15f: Effectiveness of connector coupling devices (IEC 60512-15-6:2008) German version EN 60512-15-6:2008	
Automotive Components	IEC 60512-15-6:2008	Connectors for electronic equipment - Tests and measurements - Part 15-6: Connector tests (mechanical) - Test 15f: Effectiveness of connector coupling devices	

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