



China National Accreditation Service for Conformity Assessment
LABORATORY ACCREDITATION CERTIFICATE

(Registration No. CNAS L2643)

DEKRA Testing Services (Zhejiang) Co., Ltd.

(Legal Entity: DEKRA Testing Services (Zhejiang) Co., Ltd.)

No.5, Changjiang Road, Great Bridge Industrial Park, Beibaixiang, Leqing,

Wenzhou, Zhejiang, China

is accredited in accordance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories(CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence to undertake the service described in the schedule attached to this certificate.

The scope of accreditation is detailed in the attached schedule bearing the same registration number as above. The schedule forms an integral part of this certificate.

Effective Date: 2020-03-13

Expiry Date: 2024-02-14

Signed on behalf of China National Accreditation Service for Conformity Assessment

China National Accreditation Service for Conformity Assessment (CNAS) is authorized by Certification and Accreditation Administration of the People's Republic of China (CNCA) to operate the national accreditation schemes for conformity assessment. CNAS is a signatory of the International Laboratory Accreditation Cooperation Mutual Recognition Arrangement (ILAC MRA) and the Asia Pacific Accreditation Cooperation Mutual Recognition Arrangement (APAC MRA).
The validity of the certificate can be checked on CNAS website at <http://www.cnas.org.cn/english/findanaccreditedbody/index.shtml>.

Name: DEKRA Testing Services (Zhejiang) Co., Ltd.

Address: No.5, Changjiang Road, Great Bridge Industrial Park, Beibaixiang, Leqing, Wenzhou, Zhejiang, China

Registration No. CNAS L2643

Accreditation Criteria: ISO/IEC 17025:2017 and relevant requirements of CNAS

Effective Date: 2020-03-13 Expiry Date: 2024-02-14

SCHEDULE 3 ACCREDITED TESTING SCOPE

№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
1	Low-voltage switchgear and controlgera	1	Marking	Low-voltage switchgear and controlgera- Part1: General rules GB/T 14048.1-2012 IEC 60947-1:2007 + A1:2010 + A2:2014 EN 60947-1:2007 + A1:2011 + A2:2014 5.2		2020-03-13
		2	Glow wire testing	Low-voltage switchgear and controlgera- Part1: General rules GB/T 14048.1-2012 IEC 60947-1:2007 + A1:2010 + A2:2014 EN 60947-1:2007 + A1:2011 + A2:2014 7.1.2.2		2020-03-13
		3	Clearance and creepage distance	Low-voltage switchgear and controlgera- Part1: General rules GB/T 14048.1-2012 IEC 60947-1:2007 + A1:2010 + A2:2014 EN 60947-1:2007 + A1:2011 + A2:2014 7.1.4		2020-03-13
		4	Terminals	Low-voltage switchgear and controlgera- Part1: General rules IEC 60947-1:2007 + A1:2010 + A2:2014 EN 60947-1:2007 + A1:2011 + A2:2014 GB/T 14048.1-2012 7.1.8		2020-03-13
		5	Conduit pull-out, torque and bending with metallic conduits	Low-voltage switchgear and controlgera- Part1: General rules GB/T 14048.1-2012 IEC 60947-1:2007 + A1:2010 + A2:2014 EN 60947-1:2007 + A1:2011 + A2:2014 7.1.13		2020-03-13
		6	Operating	Low-voltage switchgear and controlgera- Part1: General rules		2020-03-13

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		№	Item/ Parameter			
			characteristics	GB/T 14048.1-2012 IEC 60947-1:2007 + A1:2010 + A2:2014 EN 60947-1:2007 + A1:2011 + A2:2014 7.2.1		
		7	Temperature rise	Low-voltage switchgear and controlgera- Part1: General rules GB/T 14048.1-2012 IEC 60947-1:2007 + A1:2010 + A2:2014 EN 60947-1:2007 + A1:2011 + A2:2014 7.2.2		2020-03-13
		8	Dielectric properties	Low-voltage switchgear and controlgera- Part1: General rules GB/T 14048.1-2012 IEC 60947-1:2007 + A1:2010 + A2:2014 EN 60947-1:2007 + A1:2011 + A2:2014 7.2.3		2020-03-13
		9	Durability	Low-voltage switchgear and controlgera- Part1: General rules GB/T 14048.1-2012 IEC 60947-1:2007 + A1:2010 + A2:2014 EN 60947-1:2007 + A1:2011 + A2:2014 7.2.4.3		2020-03-13
		10	Leakage currents	Low-voltage switchgear and controlgera- Part1: General rules GB/T 14048.1-2012IEC 60947-1:2007 + A1:2010 + A2:2014 EN 60947-1:2007 + A1:2011 + A2:2014 7.2.7		2020-03-13
		11	Making and breaking capacities	Low-voltage switchgear and controlgera- Part1: General rules GB/T 14048.1-2012 IEC 60947-1:2007 + A1:2010 + A2:2014 EN 60947-1:2007 + A1:2011 + A2:2014 8.3.3.5		2020-03-13
		12	short-circuit test	Low-voltage switchgear and controlgera- Part1: General rules GB/T 14048.1-2012 IEC 60947-1:2007 + A1:2010 + A2:2014 EN 60947-1:2007 + A1:2011 + A2:2014 8.3.4.1	Except for :Breaking capacity more than 420V/35kA	2020-03-13
		13	Annes C (Degrees of protection)	Low-voltage switchgear and controlgera- Part1: General rules GB/T 14048.1-2012 IEC 60947-1:2007 + A1:2010 + A2:2014 EN 60947-1:2007 + A1:2011 + A2:2014 Annex C		2020-03-13
		14	Annes Q (damp heat test, shock, vibration)	Low-voltage switchgear and controlgera- Part1: General rules GB/T 14048.1-2012 IEC 60947-1:2007 + A1:2010 + A2:2014 EN 60947-1:2007 + A1:2011 + A2:2014 Annex Q		2020-03-13
2	circuit breakers	1	Tripping limits and characteristics	Low-voltage switchgear and controlgear - Part 2 Circuit breakers GB/T 14048.2-2008 8.3.3.1 IEC 60947-2:2016+A1:2019 8.3.3.2,		2020-03-13



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				IEC 60947-2:2006+ A1: 2009+A2:2013, EN 60947-2:2006+A1:2009+A2:2013 EN 60947-2:2017		
		2	Dielectric properties	Low-voltage switchgear and controlgear - Part 2 Circuit breakers GB/T 14048.2-2008 8.3.3.2 IEC 60947-2:2016+A1:2019 8.3.3.3, IEC 60947-2:2006+ A1: 2009+A2:2013, EN 60947-2:2006+A1:2009+A2:2013 EN 60947-2:2017		2020-03-13
		3	Mechanical operation and operational performance capability	Low-voltage switchgear and controlgear - Part 2 Circuit breakers GB/T 14048.2-2008 8.3.3.3 IEC 60947-2:2016+A1:2019 8.3.3.4, IEC 60947-2:2006+ A1: 2009+A2:2013, EN 60947-2:2006+A1:2009+A2:2013 EN 60947-2:2017		2020-03-13
		4	Overload performance (where applicable)	Low-voltage switchgear and controlgear - Part 2 Circuit breakers GB/T 14048.2-2008 8.3.3.4, IEC 60947-2:2016+A1:2019 8.3.3.5, IEC 60947-2:2006+ A1: 2009+A2:2013, EN 60947-2:2006+A1:2009+A2:2013 EN 60947-2:2017		2020-03-13
		5	Verification of dielectric withstand	Low-voltage switchgear and controlgear - Part 2 Circuit breakers GB/T 14048.2-2008 8.3.3.5, IEC 60947-2:2016+A1:2019 8.3.3.6, IEC 60947-2:2006+ A1: 2009+A2:2013, EN 60947-2:2006+A1:2009+A2:2013 EN 60947-2:2017		2020-03-13
		6	Verification of temperature-rise	Low-voltage switchgear and controlgear - Part 2 Circuit breakers GB/T 14048.2-2008 8.3.3.6, IEC 60947-2:2016+A1:2019 8.3.3.7, IEC 60947-2:2006+ A1: 2009+A2:2013, EN 60947-2:2006+A1:2009+A2:2013 EN 60947-2:2017		2020-03-13
		7	Verification of overload releases	Low-voltage switchgear and controlgear - Part 2 Circuit breakers GB/T 14048.2-2008 8.3.3.7, IEC 60947-2:2016+A1:2019 8.3.3.8, IEC 60947-2:2006+ A1: 2009+A2:2013, EN 60947-2:2006+A1:2009+A2:2013 EN 60947-2:2017		2020-03-13
		8	Verification of undervoltage and shunt releases (if	Low-voltage switchgear and controlgear - Part 2 Circuit breakers GB/T 14048.2-2008 8.3.3.8, IEC 60947-2:2016+A1:2019 8.3.3.9, IEC 60947-2:2006+ A1: 2009+A2:2013, EN 60947-		2020-03-13



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			applicable)	2:2006+A1:2009+A2:2013 EN 60947-2:2017		
		9	Verification of main contact position (for circuitbreakers suitable for isolation)	Low-voltage switchgear and controlgear - Part 2 Circuit breakers GB/T 14048.2-2008 8.3.3.9, IEC 60947-2:2016+A1:2019 8.3.3.10, IEC 60947-2:2006+ A1: 2009+A2:2013,EN 60947-2:2006+A1:2009+A2:2013 EN 60947-2:2017		2020-03-13
		10	Rated service short-circuit breaking capacity	Low-voltage switchgear and controlgear - Part 2 Circuit breakers GB/T 14048.2-2008 8.3.4.1, IEC 60947-2:2016+A1:2019 8.3.4.2, IEC 60947-2:2006+ A1: 2009+A2:2013,EN 60947-2:2006+A1:2009+A2:2013 EN 60947-2:2017	Except for :Breaking capacity more than 420V/35kA	2020-03-13
		11	Verification of operational capability	Low-voltage switchgear and controlgear - Part 2 Circuit breakers GB/T 14048.2-2008 8.3.4.2, IEC 60947-2:2016+A1:2019 8.3.4.3, IEC 60947-2:2006+ A1: 2009+A2:2013,EN 60947-2:2006+A1:2009+A2:2013 EN 60947-2:2017		2020-03-13
		12	Verification of dielectric withstand	Low-voltage switchgear and controlgear - Part 2 Circuit breakers GB/T 14048.2-2008 8.3.4.3, IEC 60947-2:2016+A1:2019 8.3.4.4, IEC 60947-2:2006+ A1: 2009+A2:2013,EN 60947-2:2006+A1:2009+A2:2013 EN 60947-2:2017		2020-03-13
		13	Verification of temperature-rise	Low-voltage switchgear and controlgear - Part 2 Circuit breakers GB/T 14048.2-2008 8.3.4.4, IEC 60947-2:2016+A1:2019 8.3.4.5, IEC 60947-2:2006+ A1: 2009+A2:2013,EN 60947-2:2006+A1:2009+A2:2013 EN 60947-2:2017		2020-03-13
		14	Verification of overload releases	Low-voltage switchgear and controlgear - Part 2 Circuit breakers GB/T 14048.2-2008 8.3.4.5, IEC 60947-2:2016+A1:2019 8.3.4.6, IEC 60947-2:2006+ A1: 2009+A2:2013,EN 60947-2:2006+A1:2009+A2:2013 EN 60947-2:2017		2020-03-13
		15	Verification of overload releases	Low-voltage switchgear and controlgear - Part 2 Circuit breakers GB/T 14048.2-2008 8.3.5.1, IEC 60947-2:2016+A1:2019 8.3.5.2, IEC 60947-2:2006+ A1: 2009+A2:2013,EN 60947-2:2006+A1:2009+A2:2013 EN 60947-2:2017		2020-03-13

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		№	Item/ Parameter			
		16	Rated ultimate short-circuit breaking capacity	Low-voltage switchgear and controlgear - Part 2 Circuit breakers GB/T 14048.2-2008 8.3.5.2, IEC 60947-2:2016+A1:2019 8.3.5.3, IEC 60947-2:2006+ A1: 2009+A2:2013, EN 60947-2:2006+A1:2009+A2:2013 EN 60947-2:2017	Except for :Breaking capacity more than 420V/35kA	2020-03-13
		17	Verification of dielectric withstand	Low-voltage switchgear and controlgear - Part 2 Circuit breakers GB/T 14048.2-2008 8.3.5.3, IEC 60947-2:2016+A1:2019 8.3.5.4, IEC 60947-2:2006+ A1: 2009+A2:2013, EN 60947-2:2006+A1:2009+A2:2013 EN 60947-2:2017		2020-03-13
		18	Verification of overload releases	Low-voltage switchgear and controlgear - Part 2 Circuit breakers GB/T 14048.2-2008 8.3.5.4, IEC 60947-2:2016+A1:2019 8.3.5.5, IEC 60947-2:2006+ A1: 2009+A2:2013, EN 60947-2:2006+A1:2009+A2:2013 EN 60947-2:2017		2020-03-13
		19	Verification of overload releases	Low-voltage switchgear and controlgear - Part 2 Circuit breakers GB/T 14048.2-2008 8.3.6.1, IEC 60947-2:2016+A1:2019 8.3.6.2, IEC 60947-2:2006+ A1: 2009+A2:2013, EN 60947-2:2006+A1:2009+A2:2013 EN 60947-2:2017		2020-03-13
		20	Rated short-time withstand current	Low-voltage switchgear and controlgear - Part 2 Circuit breakers GB/T 14048.2-2008 8.3.6.2, IEC 60947-2:2016+A1:2019 8.3.6.3, IEC 60947-2:2006+ A1: 2009+A2:2013, EN 60947-2:2006+A1:2009+A2:2013 EN 60947-2:2017		2020-03-13
		21	Verification of temperature-rise	Low-voltage switchgear and controlgear - Part 2 Circuit breakers GB/T 14048.2-2008 8.3.6.3, IEC 60947-2:2016+A1:2019 8.3.6.4, IEC 60947-2:2006+ A1: 2009+A2:2013, EN 60947-2:2006+A1:2009+A2:2013 EN 60947-2:2017 8.3.6.3		2020-03-13
		22	Short-circuit breaking capacity at max. sh.time withst. curr.	Low-voltage switchgear and controlgear - Part 2 Circuit breakers GB/T 14048.2-2008 8.3.6.4, IEC 60947-2:2016+A1:2019 8.3.6.5, IEC 60947-2:2006+ A1: 2009+A2:2013, EN 60947-2:2006+A1:2009+A2:2013 EN 60947-2:2017		2020-03-13
		23	Verification of	Low-voltage switchgear and controlgear - Part 2 Circuit breakers		2020-03-13

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№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
			dielectric withstand	GB/T 14048.2-2008 8.3.6.5, IEC 60947-2:2016+A1:2019 8.3.6.6, IEC 60947-2:2006+ A1: 2009+A2:2013, EN 60947-2:2006+A1:2009+A2:2013 EN 60947-2:2017		
		24	Verification of overload releases	Low-voltage switchgear and controlgear - Part 2 Circuit breakers GB/T 14048.2-2008 8.3.6.6, IEC 60947-2:2016+A1:2019 8.3.6.7 IEC 60947-2:2006+ A1: 2009+A2:2013, EN 60947-2:2006+A1:2009+A2:2013 EN 60947-2:2017		2020-03-13
		25	Operating characteristic	Low-voltage switchgear and controlgear - Part 2 Circuit breakers GB/T 14048.2-2008 IEC 60947-2:2016+A1:2019, IEC 60947-2:2006+ A1: 2009+A2:2013, EN 60947-2:2006+A1:2009+A2:2013 EN 60947-2:2017 B8.2		2020-03-13
		26	Dielectric properties	Low-voltage switchgear and controlgear - Part 2 Circuit breakers GB/T 14048.2-2008 IEC 60947-2:2016+A1:2019, IEC 60947-2:2006+ A1: 2009+A2:2013, EN 60947-2:2006+A1:2009+A2:2013 EN 60947-2:2017 B 8.3		2020-03-13
		27	Operation of the test device at the limits of rated voltage	Low-voltage switchgear and controlgear - Part 2 Circuit breakers GB/T 14048.2-2008 IEC 60947-2:2016+A1:2019, IEC 60947-2:2006+ A1: 2009+A2:2013, EN 60947-2:2006+A1:2009+A2:2013 EN 60947-2:2017 B.8.4		2020-03-13
		28	Limiting value of the non-operating current under over-current conditions	Low-voltage switchgear and controlgear - Part 2 Circuit breakers GB/ 14048.2-2008 IEC 60947-2:2016+A1:2019, IEC 60947-2:2006+ A1: 2009+A2:2013, EN 60947-2:2006+A1:2009+A2:2013 EN 60947-2:2017 B.8.5		2020-03-13
		29	Resistance against unwanted tripping due to surge currents resulting from impulse voltages	Low-voltage switchgear and controlgear - Part 2 Circuit breakers GB/T 14048.2-2008 IEC 60947-2:2016+A1:2019, IEC 60947-2:2006+ A1: 2009+A2:2013, EN 60947-2:2006+A1:2009+A2:2013 EN 60947-2:2017 B.8.6		2020-03-13
		30	Behaviour in the	Low-voltage switchgear and controlgear - Part 2 Circuit breakers		2020-03-13



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№	Test Object	Item/Parameter		Standard or Method	Note	Effective Date
		№	Item/ Parameter			
			case of an earth fault current comprising a d.c. component	GB/T 14048.2-2008 IEC 60947-2:2006+ A1: 2009+A2:2013,EN 60947-2:2006+A1:2009+A2:2013 EN 60947-2:2017 B.8.7		
		31	verifications for CBRs of Type B	Low-voltage switchgear and controlgear - Part 2 Circuit breakers IEC 60947-2:2016+A1:2019 B8.8		2020-03-13
		32	Behaviour in the case of failure of line voltage for CBRs classified under B.3.1.2.1	Low-voltage switchgear and controlgear - Part 2 Circuit breakers GB/T 14048.2-2008 B8.8, IEC 60947-2:2016+A1:2019 B8.9, IEC 60947-2:2006+ A1: 2009+A2:2013, EN 60947-2:2006+A1:2009+A2:2013 EN 60947-2:2017		2020-03-13
		33	Behaviour in the case of failure of line voltage for CBRs classified under B.3.1.2.2	Low-voltage switchgear and controlgear - Part 2 Circuit breakers GB/T 14048.2-2008 B8.9 IEC 60947-2:2016+A1:2019 B8.10, IEC 60947-2:2006+ A1: 2009+A2:2013, EN 60947-2:2006+A1:2009+A2:2013 EN 60947-2:2017		2020-03-13
		34	Residual short-circuit making and breaking capacity (I Δ m)	Low-voltage switchgear and controlgear - Part 2 Circuit breakers GB/T 14048.2-2008 B8.10, IEC 60947-2:2016+A1:2019 B8.11, IEC 60947-2:2006+ A1: 2009+A2:2013, EN 60947-2:2006+A1:2009+A2:2013 EN 60947-2:2017	Except for :Breaking capacity more than 420V/35kA	2020-03-13
		35	Effects of environmental conditions	Low-voltage switchgear and controlgear - Part 2 Circuit breakers GB/T 14048.2-2008 B8.10, IEC 60947-2:2016+A1:2019 B8.11, IEC 60947-2:2006+ A1: 2009+A2:2013, EN 60947-2:2006+A1:2009+A2:2013 EN 60947-2:2017		2020-03-13
		36	Individual pole short-circuit	Low-voltage switchgear and controlgear - Part 2 Circuit breakers GB/T 14048.2-2008 IEC 60947-2:2016+A1:2019, IEC 60947-2:2006+ A1: 2009+A2:2013, EN 60947-2:2006+A1:2009+A2:2013 EN 60947-2:2017 C2	Except for:Breakin g capacity more than 420V/35kA	2020-03-13



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		37	Verification of dielectric withstand	Low-voltage switchgear and controlgear - Part 2 Circuit breakers GB/T 14048.2-2008 IEC 60947-2:2016+A1:2019, IEC 60947-2:2006+ A1: 2009+A2:2013,EN 60947-2:2006+A1:2009+A2:2013 EN 60947-2:2017 C3		2020-03-13
		38	Verification of overload releases	Low-voltage switchgear and controlgear - Part 2 Circuit breakers GB/T 14048.2-2008 IEC 60947-2:2016+A1:2019, IEC 60947-2:2006+ A1: 2009+A2:2013, EN 60947-2:2006+A1:2009+A2:2013 EN 60947-2:2017 C4		2020-03-13
		39	dry heat	Low-voltage switchgear and controlgear - Part 2 Circuit breakers GB/T 14048.2-2008 IEC 60947-2:2016+A1:2019, IEC 60947-2:2006+ A1: 2009+A2:2013,EN 60947-2:2006+A1:2009+A2:2013 EN 60947-2:2017 F7		2020-03-13
		40	damp heat	Low-voltage switchgear and controlgear - Part 2 Circuit breakers GB/T 14048.2-2008 IEC 60947-2:2016+A1:2019, IEC 60947-2:2006+ A1: 2009+A2:2013, EN 60947-2:2006+A1:2009+A2:2013 EN 60947-2:2017 F8		2020-03-13
		41	temperature variation cycles	Low-voltage switchgear and controlgear - Part 2 Circuit breakers GB/T 14048.2-2008 IEC 60947-2:2016+A1:2019, IEC 60947-2:2006+ A1: 2009+A2:2013,EN 60947-2:2006+A1:2009+A2:2013 EN 60947-2:2017 F9		2020-03-13
		42	Individual pole short-circuit (IT)	Low-voltage switchgear and controlgear - Part 2 Circuit breakers GB/T 14048.2-2008 IEC 60947-2:2016+A1:2019, IEC 60947-2:2006+ A1: 2009+A2:2013, EN 60947-2:2006+A1:2009+A2:2013 EN 60947-2:2017 H2	Except for :Breaking capacity more than 420V/35kA	2020-03-13
		43	Verification of dielectric withstand	Low-voltage switchgear and controlgear - Part 2 Circuit breakers GB/T 14048.2-2008 IEC 60947-2:2016+A1:2019, IEC 60947-2:2006+ A1: 2009+A2:2013,EN 60947-2:2006+A1:2009+A2:2013 EN 60947-2:2017 H3		2020-03-13
		44	Verification of	Low-voltage switchgear and controlgear - Part 2 Circuit breakers		2020-03-13

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		№	Item/ Parameter			
			overload releases	GB/T 14048.2-2008 IEC 60947-2:2016+A1:2019, IEC 60947-2:2006+ A1: 2009+A2:2013, EN 60947-2:2006+A1:2009+A2:2013 EN 60947-2:2017 H4		
3	Switches, disconnectors, switch-disconnectors and fuse-combination units		Part items	Low-voltage switchgear and controlgear – Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units GB/T 14048.3-2017 IEC 60947-3:2008 + A1:2012 + A2:2015, EN 60947-3:2009 + A1:2012 + A2:2015	Except for: 1. EMC test; 2. Breaking capacity more than 35 kA (420 V)	2020-03-13
4	Contactors and motor-starters – Electromechanical contactors and motor-starters		Part items	Low-voltage switchgear and controlgear –Part 4-1: Contactors and motor-starters –Electromechanical contactors and motor-starters (Including motor protector) GB/T 14048.4-2010 IEC 60947-4-1:2009 + A1:2012 IEC60947-4-1:2018 EN 60947-4-1:2010 + A1:2012 EN IEC 60947-4-1 :2019	Except for: 1. EMC test; 2. Breaking capacity more than 35 kA (420 V)	2020-03-13
5	Control circuit devices and switching elements – Electromechanical control circuit devices		Part items	Low-voltage switchgear and controlgear –Part 5-1: Control circuit devices and switching elements – Electromechanical control circuit devices GB/T 14048.5-2017 IEC 60947-5-1:2016 IEC 60947-5-1:2003 + A1:2009 EN 60947-5-1:2004 + A1:2009 EN60947-5-1:2017	Except for: EMC test	2020-03-13
6	Terminal blocks for copper		Part items	Low-Voltage Switchgear and controlgear - Part 7-1: Ancillary equipment - Terminal blocks for copper conductors GB/T	Except for: 1. EMC test;	2020-03-13



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		№	Item/ Parameter			
	conductors			14048.7-2016 IEC 60947-7-1:2009 EN 60947-7-1:2009	2. Needle flame test	
7	Terminal blocks for copper conductors		Part items	Low-voltage switchgear and controlgear- Part 7-2: Ancillary equipment- Protective conductor terminal blocks for copper conductors GB/T 14048.8-2016 IEC 60947-7-2:2009, EN 60947-7-2:2009	Except for: 1. The EMC test; 2. Needle flame test	2020-03-13
8	multiple function equipment- Transfer switching equipment		Part items	Low-voltage switchgear and controlgear - Part 6-1: Multiple function equipment - Transfer switching equipment GB/T 14048.11-2016 IEC 60947-6-1:2005 + A1:2013 EN 60947-6-1:2005 + A1:2014	Except for: 1. EMC test; 2. Breaking capacity more than 35 kA (420 V) .	2020-03-13
9	Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs)	1	Part items	Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs) Part1: General rules GB/T 16917.1-2014 IEC 61009-1:2010+A1:2012+A2:2013, EN 61009-1:2012+A1:2014+A2:2014+A11:2015+A12:2016	Except for: EMC test	2020-03-13
				Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBO's) - Part 2-1: Applicability of the general rules to RCBO's functionally independent of line voltage GB/T 16917.21-2008 IEC 61009-2-1:1991 EN 61009-2-1:1994+A11:1998		2020-03-13
				Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBO's) - Part 2-2: Applicability of the general rules to RCBO's functionally dependent on line voltage GB/T16917.22-2008 IEC		2020-03-13



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				61009-2-2:1991		
10	Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs)	1	Part items	Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCB) - Part1:General rules GB/T 16916.1-2014, IEC 61008-1:2010+A1:2012+A2:2013 EN 61008-1:2012 + A1:2014 + A1:2014/AC:2016 + A2:2014+A11:2015+A12:2017	Except for: EMC test	2020-03-13
				Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCB) - Part1:General rules GB/T 16916.21-2008 IEC 61008-2-1:1990, EN 61008-2-1:1994+A11:1998		2020-03-13
				Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCB's). Part 2-2: Applicability of the general rules to RCCB's functionally dependent on line voltage GB/T 16916.22-2008 IEC 61008-2-2:1990		2020-03-13
11	Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (B-Type RCBOs)	1	Marking	Type B Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (Type B RCCBs and Type B RCBOs) GB/T 22794-2017 IEC 62423:2009 EN 62423:2012		2020-03-13
				Type B Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (Type B RCCBs and Type B RCBOs) GB/T 22794-2017 IEC 62423:2009 EN 62423:2012 9		2020-03-13
		2	Residual operating characteristics	Verification of the correct operation characteristic at the reference temperature(20+5)C GB/T 22794 2017 9.1 IEC 62423:2009 9.2 EN 62423:2012		2020-03-13
				Verification of the correct operation in case of residual sinusoidal alternating currents up to 1000Hz GB/T 22794-2017 9.1.1 IEC 62423:2009 EN 62423:2012 9.2.1.2		2020-03-13



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				Verification of the correct operation in case of residual alternating current superimposed on a residual smooth direct current GB/T 22794-2017 9.1.2 IEC 62423:2009 EN 62423:2012 9.2.1.3		2020-03-13
				Verification of the correct operation in case of residual pulsating current superimposed on a residual smooth direct current GB/T 22794-2017 9.1.3 IEC 62423:2009 EN 62423:2012 9.2.1.4		2020-03-13
				Verification of the correct operation in case of residual direct current which may result form rectifying circuits supplied from two phases GB/T 22794-2017 9.1.4 IEC 62423:2009 EN 62423:2012 9.2.1.5		2020-03-13
				Verification of the correct operation in case of residual direct current which may result form rectifying circuits supplied from three phases GB/T 22794-2017 9.1.5 IEC 62423:2009 EN 62423:2012 9.2.1.6		2020-03-13
				Verification of the correct operation in case of residual smooth direct current GB/T 22794-2017 9.1.6 IEC 62423:2009 EN 62423:2012 9.2.1.7		2020-03-13
				Tests at the temperature limits GB/T 22794-2017 9.2 IEC 62423:2009 EN 62423:2012 9.2.2		2020-03-13
				Verification of the RCD after test sequences GB/T 22794-2017 9.3 IEC 62423:2009 EN 62423:2012 9.2.4		2020-03-13
				Tests for Type F and Type B RCDs IEC 62423:2009 EN 62423:2012 9.1		2020-03-13
				Verification of the correct operation for three and four-pole Type B RCDs powered on two poles only IEC 62423:2009 EN 62423:2012 9.2.3		2020-03-13
12	Circuit-breakers for overcurrent		All items	Electrical accessories – Circuit-breakers for overcurrent protection for household and similar installations- Part 1 :Circuit-breakers for a.c.operation GB/T 10963.1-2005 IEC 60898-		2020-03-13



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	protection for household and similar installations			1:2015, IEC 60898-1:2002+A1:2002+A2:2003, EN 60898-1:2019 EN 60898-1 2003 + A1 2004 + A11 2005 + A12 2008 + A13 2012		
13	Connecting devices for low-voltage circuits for household and similar purposes	1	marking	Connecting devices for low-voltage circuits for household and similar purposes Part1: General requirements GB/T 13140.1-2008 IEC 60998-1:2002 EN 60998-1:2004 8.4		2020-03-13
		2	protection against electric shock	Connecting devices for low-voltage circuits for household and similar purposes Part1: General requirements GB/T 13140.1-2008 IEC 60998-1:2002 EN 60998-1:2004 9		2020-03-13
		3	connection of conductors	Connecting devices for low-voltage circuits for household and similar purposes Part1: General requirements GB/T 13140.1-2008 IEC 60998-1:2002 EN 60998-1:2004 10.101 to 103		2020-03-13
		4	test of clamped conductor	Connecting devices for low-voltage circuits for household and similar purposes Part1: General requirements GB/T 13140.1-2008 IEC 60998-1:2002 EN 60998-1:2004 10.106		2020-03-13
		5	clamping of the conductor	Connecting devices for low-voltage circuits for household and similar purposes Part1: General requirements GB/T 13140.1-2008 IEC 60998-1:2002 EN 60998-1:2004 11.102		2020-03-13
		6	clamping test	Connecting devices for low-voltage circuits for household and similar purposes Part1: General requirements GB/T 13140.1-2008 IEC 60998-1:2002 EN 60998-1:2004 11.103		2020-03-13
		7	rotating test	Connecting devices for low-voltage circuits for household and similar purposes Part1: General requirements GB/T 13140.1-2008 IEC 60998-1:2002 EN 60998-1:2004 10.104.		2020-03-13
		8	pull test	Connecting devices for low-voltage circuits for household and similar purposes Part1: General requirements GB/T 13140.1-2008 IEC 60998-1:2002 EN 60998-1:2004 10.105		2020-03-13
		9	resistance to ageing and to humidity	Connecting devices for low-voltage circuits for household and similar purposes Part1: General requirements GB/T 13140.1-		2020-03-13



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				2008 IEC 60998-1:2002 EN 60998-1:2004 12		
		10	insulation resistance and electric strength	Connecting devices for low-voltage circuits for household and similar purposes Part1: General requirements GB/T 13140.1-2008 IEC 60998-1:2002 EN 60998-1:2004 13		2020-03-13
		11	mechanical strength	Connecting devices for low-voltage circuits for household and similar purposes Part1: General requirements GB/T 13140.1-2008 IEC 60998-1:2002 EN 60998-1:2004 14		2020-03-13
		12	temperature rise	Connecting devices for low-voltage circuits for household and similar purposes Part1: General requirements GB/T 13140.1-2008 IEC 60998-1:2002 EN 60998-1:2004 15		2020-03-13
		13	resistance to heat	Connecting devices for low-voltage circuits for household and similar purposes Part1: General requirements GB/T 13140.1-2008 IEC 60998-1:2002 EN 60998-1:2004 16		2020-03-13
		14	clearance and creepage distance	Connecting devices for low-voltage circuits for household and similar purposes Part1: General requirements GB/T 13140.1-2008 IEC 60998-1:2002 EN 60998-1:2004 17		2020-03-13
		15	resistance of insulating material to abnormal heat and fire	Connecting devices for low-voltage circuits for household and similar purposes Part1: General requirements GB/T 13140.1-2008 IEC 60998-1:2002 EN 60998-1:2004 18		2020-03-13
		16	resistance of insulating material to tracking	Connecting devices for low-voltage circuits for household and similar purposes Part1: General requirements GB/T 13140.1-2008 IEC 60998-1:2002 EN 60998-1:2004 19		2020-03-13
14	Connecting devices for low-voltage circuits for household and similar		Part items	Connecting devices for low-voltage circuits for household and similar purposes GB/T 13140.2-2008IEC 60998-2-1:2002 EN 60998-2-1:2004	Except for: EMC Test	2020-03-13



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	purposes					
15	particular requirement for connecting devices as separate entities with screwless-type clamping units		Part items	Connecting devices for low-voltage circuits for household and similar purposes Part 2: Particular requirements for connecting devices as separate entities with screwless-type clamping units GB/T 13140.3-2008 IEC 60998-2-2:2002 EN 60998-2-2:2004	Except for: EMC test	2020-03-13
16	Electromechanical contactors for household and similar purposes		Part items	Electromechanical contactors for household and similar purposes GB/T 17885-2016 IEC 61095:2009 EN 61095:2009	Except for: 1. EMC test; 2. Breaking capacity more than 35 kA (420 V)	2020-03-13
17	electric and electronic products	1	Glow/hot-wire	Fire hazard testing for electric and electronic products - Part 10: Glow/hot-wire based test methods - Glow-wire apparatus and common test procedure GB/T 5169.10-2017 IEC 60695-2-10:2013		2020-03-13
18	electric and electronic products	1	Glow/hot-wire	Fire hazard testing for electric and electronic products - Part 11: Glowing/hot-wire based test methods - Glow-wire flammability test method for end-products GB/T 5169.11-2017 IEC 60695-2-11:2014		2020-03-13
19	solid insulating materials	1	The determination of the proof and the comparative tracking indices	Method for the determination of the proof and the comparative tracking indices of solid insulating materials GB /T 4207-2012 IEC 60112:2003 + A1:2009		2020-03-13

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20	electric and electronic products	1	Abnormal heat-Ball pressure test	Fire hazard testing for electric and electronic products—Part 21: Abnormal heat-Ball pressure test GB/T5169.21-2017 IEC 60695-10-2: 2014		2020-03-13
21	low voltage electric appliance	1	Degrees of protection provided by enclosure	Degrees of protection provided by enclosure(IP code) GB/T 4208-2017 IEC60529:1989 + A1:1999 + A2:2013 + A2 C1:2019	Except for: >IP55 test	2020-03-13
22	electric and electronic products	1	Shock	Environmental testing-Part 2-27:Tests-Test Ea and guidance:Shock GB/T 2423.5-2019 IEC 60068-2-27:2008	Accredited only for : Peakacceleration: maximum than 500 m/s ² Duration time of pulse: maximum than 20ms	2020-03-13
23	electric and electronic products	1	Vibration	Environmental testing-Part 2-6:Tests-Test Fc:Vibration (sinusoidal) GB/T 2423.10-2019 IEC 60068-2-6:2007	Except for: F>1000Hz test	2020-03-13



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