



Product Compliance Certificate

Certificate Number: 5023976S220012-01A

Notice to Authorities:

This certificate indicates that a third party Accredited Body has tested and verified that the products listed comply with the relevant harmonized standards to directives listed on this certificate. The manufacturer may indicate compliance to said directive by signing a Declaration of Conformity to products identical to the tested samples.

In addition, annual factory inspection has been performed for further verification of compliance. Intertek requests all whom may be concerned to allow products entry into the European market without delay or prejudice. The applicant may rightfully use this certificate to mark their products with the ETL^{EU} mark identified above.

Intertek is a leading international provider of quality and safety services to a wide range of global and local industries. Intertek's laboratories are included in IECEE CB scheme as operational CBTL and hold several local accreditations.

For further information:

Email:

ETL.EU@intertek.com

Website:

www.intertek.com/ETLeu

Or Certification Body:

Intertek Testing Services Ltd.
Shanghai
West Area, 2nd Floor, No. 707,
Zhangyang Road, China
(Shanghai) Pilot Free Trade
Zone, Shanghai, P. R. China

Accredited by China National
Accreditation Service for
Conformity Assessment
(CNAS C058-P)

Applicant

Wenzhou Tosun Electric Co., Ltd.
Room No.1001 Fortune Center, Station Road, Wenzhou, Zhejiang
P. R. China

Manufacturing Site

Zhejiang Jiuce Intelligent Electric Co., Ltd.
No. 5, Fenjin Road, Dongfeng Industrial Zone, Liushi Town,
Yueqing City, Zhejiang Province
P. R. China

Product Name

Moulded Case Circuit-Breakers (MCCBs)

Trademark



Model Number(s)

TSB5-63DC *

* denotes: In= 6A, 10A, 13A, 16A, 20A, 25A, 32A, 40A, 50A, 63A

Description

Details see attachment

Test Report No

220500857SHA-001

Standards/Directives

EN 60947-2:2017+A1:2020

IEC 60947-2:2016+A1:2019

Issued Date

August 18, 2022

Validity

August 17, 2027

Maximum 5 years or the validity limitation of the standards/directives used, whichever is sooner.

If the product is to be marketed in different European countries, it must be provided with a certified plug appropriate for each country. Safety related parts of the user instructions shall be written in a language acceptable to the country where the product is to be used.

This certificate, which includes production control, is considered to constitute sufficient support for an EC Declaration of Conformity and CE marking of the product according to the Low Voltage Directive 2014/35/EU. Other EU directives may apply.

Certification procedure SMS-ETLeu-OP-19

Product certification scheme type: Type test + Initial factory inspection + Surveillance after certification

Gary Hu

DecuSign

Attachment to Certificate Number: 5023976S220012-01A

Description:

Ue= 250Vdc(1P), 500Vdc(2P), 750Vdc(3P), 1000Vdc(4P)

In= 6, 10, 13, 16, 20, 25, 32, 40, 50, 63A

Ics= Icu= 6kA, Cat. A, Uimp= 4kV

Ui= 500V(1P, 2P), Ui= 1000V(3P, 4P)

Instantaneous(fixed): li= 5,5In, 8,5In, 10In



China National Accreditation Service for Conformity Assessment

PRODUCT CERTIFICATION BODY ACCREDITATION CERTIFICATE

(Registration No. CNAS C058-P)

Intertek Testing Services Ltd., Shanghai

2/F (West Side), No. 707, Zhangyang Road, Free Trade Experimental Area,

Shanghai, P.R. China, 200233

to ISO/IEC 17065:2012 Conformity Assessment - Requirements for Bodies Certifying Products, Processes and Services (CNAS-CC02) for the competence to undertake the product certification service as 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.

Date of Issue: 2018-09-06

Date of Expiry: 2023-11-05

Date of Initial Accreditation: 2014-11-06

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 Accreditation Forum Multilateral Recognition Arrangement (IAF MLA) and the Pacific Accreditation Cooperation Multilateral Recognition Arrangement (PAC MLA). The validity of the certificate can be checked on CNAS website at <http://www.cnas.org.cn/english/findanaccreditedbody/index.shtml>



China National Accreditation Service for Conformity Assessment

GENERAL PRODUCT CERTIFICATION BODY

ACCREDITED SCOPES

Registration No.: CNAS C058-P
 Name: Intertek Testing Services Ltd., Shanghai
 Date of Initial Accreditation: 2014-11-06

No.	Accredited Items	Standards or Specifications		Certification model
1.	Communication equipment	Information technology equipment-safety Part 1: General requirements	EN 60950-1 IEC 60950-1	Type test+ initial factory inspection+ surveillance after certification
2.	Audio, Video, Radio and television receiving equipment	Audio, video and similar electronic apparatus –Safety requirements	EN 60065 IEC 60065	Type test+ initial factory inspection+ surveillance after certification
3.	Circular Saws	Hand-held motor-operated electric tools –Safety Part 1: General requirements	IEC 60745-1 EN 60745-1	Type test+ initial factory inspection+ surveillance after certification
		Hand-held motor-operated electric tools –Safety Part 2: Particular Requirements for Circular Saws	IEC 60745-2-5 EN 60745-2-5	
4.	Electrical appliances for switching, protection or connection of low voltage circuit <1000V	Switches for appliances –Part 1:General requirements	EN 61058-1 IEC 61058-1	Type test+ initial factory inspection+ surveillance after certification
5.	Household and similar electrical appliances	Household and Similar Electrical Appliances-Safety Part 1: General Requirements	IEC 60335-1 EN 60335-1	Type test+ initial factory inspection+ surveillance after certification
		Particular requirements for vacuum cleaners and water-suction cleaning appliances	EN 60335-2-2 IEC 60335-2-2	
		Particular requirements for electric irons	EN 60335-2-3 IEC 60335-2-3	
		Particular requirements for spin extractors	EN 60335-2-4 IEC 60335-2-4	
		Particular requirements for stationary cooking ranges, hobs, ovens and similar appliances	EN 60335-2-6 IEC 60335-2-6	
		Particular requirements for washing machines	EN 60335-2-7 IEC 60335-2-7	
		Particular requirements for grills, toasters and similar portable cooking appliances	EN60335-2-9 IEC 60335-2-9	
		Particular requirements for tumble dryers	EN 60335-2-11 IEC 60335-2-11	
		Particular requirements for kitchen machines	IEC 60335-2-14 EN 60335-2-14	
		Particular requirements for appliances for heating liquids	EN 60335-2-15 IEC 60335-2-15	
		Particular requirements Section 2.21 Storage water heaters	EN 60335-2-21 IEC 60335-2-21	

This schedule without expiry date should be used with the accreditation certificate bearing the same registration number. The validity of the schedule can be checked on CNAS website at www.cnas.org.cn.

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	Particular requirements for appliances for skin or hair care	IEC 60335-2-23 EN 60335-2-23	
	Particular requirements for refrigerating appliances, ice-cream appliances and ice-maker	EN 60335-2-24 IEC 60335-2-24	
	Particular requirements for microwave ovens, including combination microwave ovens	EN 60335-2-25 IEC 60335-2-25	
	Particular requirements for room heaters	EN 60335-2-30 IEC 60335-2-30	
	Particular requirements for range hoods	EN 60335-2-31 IEC 60335-2-31	
	Particular requirements for motor-compressors	EN 60335-2-34 IEC 60335-2-34	
	Particular requirements for instantaneous water heaters	IEC 60335-2-35 IEC 60335-2-35	
	Safety of Household and Similar Electrical Appliances – Part 2-40: Particular Requirements for heat pumps, air-conditioners and dehumidifiers	IEC 60335-2-40 EN 60335-2-40	
	Particular requirements for fans	EN 60335-2-80 IEC 60335-2-80	
6.	Lighting apparatus	Luminaires Part 1: General Requirement and Tests IEC 60598-1 EN 60598-1	Type test+ initial factory inspection+ surveillance after certification
	Luminaires, Part 2: Particular requirements, Section One: Fixed general purpose luminaires	IEC 60598-2-1 EN 60598-2-1	
	Luminaires – Part 2-2: Particular requirements - Recessed luminaires	IEC 60598-2-2 EN 60598-2-2	
	Luminaires – Part 2: Particular requirements - Section 4: Portable general purpose luminaires	IEC 60598-2-4 EN 60598-2-4	
	Luminaires – Part 2-10: Particular requirements – Portable luminaires for children	IEC 60598-2-10 EN 60598-2-10	
	Luminaires – Part 2-11: Particular requirements – Aquarium luminaires	IEC 60598-2-11 EN 60598-2-11	
	Luminaires – Part 2-12: Particular requirements – Mains socket-outlet mounted nightlights	IEC 60598-2-12 EN 60598-2-12	
	Luminaires – Part 2-13: Particular requirements – Ground recessed luminaires	IEC 60598-2-13 EN 60598-2-13	
	Lamp controlgear – Part 1: General and safety requirements	IEC 61347-1 EN 61347-1	
	Lamp control gear – Part 2-3: Particular requirements for a.c. and/or d.c. supplied electronic control gear for fluorescent lamps	IEC 61347-2-3 EN 61347-2-3	
	Lamp controgear-Part 2-8: Particular requirements for ballasts for fluorescent lamps	IEC 61347-2-8 EN 61347-2-8	
	Lamp controgear-Part 2-9: Particular requirements for electromagnetic controlgear for discharge lamps (excluding fluorescent lamps)	IEC 61347-2-9 EN 61347-2-9	
	Lamp controlgear - Part 2-12: Particular requirements for d.c. or a.c. supplied electronic ballasts for discharge lamps (excluding fluorescent lamps)	IEC 61347-2-12 EN 61347-2-12	
	Lamp controlgear : Part 2-13 : Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules	IEC 61347-2-13 EN 61347-2-13	
7.	Wind turbines	Wind turbines – Part 1: Design requirements IEC 61400-1	Design evaluation + Type testing+ + initial factory inspection+ surveillance after certification
	Wind turbines – Part 2: Small wind turbines	IEC 61400-2	
	Wind turbines- Part 22: Conformity testing and certification	IEC 61400-22	
	Rules and procedures for conformity testing and certification of Wind turbines generator systems	GB/Z 25458	

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		Wind turbines generator systems - Design requirements	GB/T 18451.1	
		Design requirements for small wind turbines	GB/T 17646	
		Guideline for the certification of wind turbines	GL-IV-1	
8.	Composite Wood Products	Section 93120-93120.12, title 17, California Code of Regulations	Section 93120-93120.12, title 17, California Code of Regulations	Type test + Factory audit+ surveillance after certification
9.	MCB	Electrical accessories - Circuit-breakers for overcurrent protection for household and similar installation - Part 1: Circuit-breakers for a.c. operation	IEC 60898-1 EN 60898-1 IEC 60898-2 EN 60898-2	Type test + Initial factory inspection + supervision
10.	CBE	Part 2: Circuit-breakers for a.c. and d.c. operation		
		Circuit-breakers for equipment	IEC 60934 EN 60934	Type test + Initial factory inspection + supervision
11.	Low-voltage switchgear and controlgear	Low-voltage switchgear and controlgear Part1:General rule	IEC 60947-1 EN 60947-1	Type test + Initial factory inspection + supervision
12.	MCCB	Low-voltage switchgear and controlgear Part2: Circuit-breakers	IEC 60947-2 EN 60947-2	Type test + Initial factory inspection + supervision
13.	Switches, disconnectors, switch-disconnectors and fuse-combination units	Low-voltage switchgear and controlgear Part 3:Switches, disconnectors, switch-disconnectors and fuse-combination units	IEC 60947-3 EN 60947-3	Type test + Initial factory inspection + supervision
14.	Contactors	Specifications for low-voltage switchgear and controlgear Part 4.Contactors and motor-starters Section 1.Electromechanical contactors and motor-starters	IEC 60947-4-1 EN 60947-4-1	Type test + Initial factory inspection + supervision
15.	Contactors and motor-starters AC semiconductor motor controllers and starters	Low-voltage switchgear and controlgear Part 4-2: Contactors and motor-starters AC semiconductor motor controllers and starters	IEC 60947-4-2 EN 60947-4-2	Type test + Initial factory inspection + supervision
16.	Control circuit devices and switching elements-Electromechanical control circuit devices	Low-voltage switchgear and controlgear Part 5-1:Control circuit devices and switching elements-Electromechanical control circuit devices	IEC 60947-5-1 EN 60947-5-1	Type test + Initial factory inspection + supervision
17.	ATSE	Low-voltage switchgear and controlgear Part 6: multiple function equipment, SECTION 1:automatic transfer switching equipment	IEC 60947-6-1 EN 60947-6-1	Type test + Initial factory inspection + supervision
18.	CPS	Low-voltage switchgear and controlgear Part 6: multiple function equipment, SECTION 2:Control and protective switching devices (or equipment)(CPS)	IEC 60947-6-2 EN 60947-6-2	Type test + Initial factory inspection + supervision
19.	Terminal blocks for copper conductors	Low-voltage switchgear and controlgear Part 7: Ancillary equipment Section 7.1. Terminal blocks for copper conductors	IEC 60947-7-1 EN 60947-7-1	Type test + Initial factory inspection + supervision
20.	RCCB	Residual current operated circuit-breakers without integral overcurrent protection for household and similar use (RCCB's)	IEC 61008-1 EN 61008-1 IEC 61008-2-1 EN 61008-2-1 IEC 61008-2-2 EN 61008-2-2	Type test + Initial factory inspection + supervision
21.	RCBO	Residual current operated circuit-breakers without integral overcurrent protection for household and similar use (RCBO's)	IEC 61009-1 EN 61009-1 IEC 61009-2-1 EN 61009-2-1 IEC 61009-2-2 EN 61009-2-2	Type test + Initial factory inspection + supervision
22.	Plugs,socket-outlets and couplers for industrial purposes	Plugs,socket-outlets and couplers for industrial purposes	IEC 60309-1 EN 60309-1 IEC 60309-2 EN 60309-2	Type test + Initial factory inspection + supervision
23.	Low-voltage switchgear and controlgear assemblies	Low-voltage switchgear and controlgear assemblies – Part 1: General rules	IEC 61439-1 EN 61439-1	Type test + Initial factory inspection + supervision
24.	Power switchgear and controlgear assemblies	Low-voltage switchgear and controlgear assemblies – Part 2: Power switchgear and controlgear assemblies	IEC 61439-2 EN 61439-2	Type test + Initial factory inspection + supervision

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25.	DISTRIBUTION BOARDS	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 61439-3 EN 61439-3	Type test + Initial factory inspection + supervision
26.	ACS	Low-voltage switchgear and controlgear assemblies – Part 4: ACS	IEC 61439-4 EN 61439-4	Type test + Initial factory inspection + supervision
27.	PRCD	Electrical accessories-Portable residual current devices without integral overcurrent protection for household and similar use (PRCDs)	IEC 61540 HD 639	Type test + Initial factory inspection + supervision
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 Secretary-general of CNAS
 2018-09-06

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To: NRCS SABS CAMPUS

Attention: Mr.Nkeke Isaac Malapela

1 Dr. Lategan Drive Groenkloof

Pretoria 0001

South Africa

Intertek Product Certification Accredited to Type 5

Herewith confirmation that Intertek have been accredited by CNAS for product certification to a Type 5 scheme as specified by ISO17067 (replace Guide 67). The Intertek accredited by CNAS is to ISO17065 for various IEC/EN standards. All the standards applied within the Electron-technical industries are accredited as a type 5 scheme.

Our accredited certificate CNAS C058-P indicates the standards (IEC/EN) that are approved and please refer to it for more details . Please note that we are expecting the latest product accredited certificate from CNAS which will include the full updated list of standards.

Please refer to www.cnas.org.cn for details of all Intertek accredited.

Thank you for your continuous kind support to us and we would like to give our best services to you in the future.

Sincerely yours,

Intertek Testing Services Shanghai

Manager of Electrical Department

Oliver Wei

