



CERTIFICATE

Issued to:
Applicant:
MAXGE ELECTRIC TECHNOLOGY CO., LTD.
No.299 East Changhong Road, Wukang Town,
Deqing County,
313200 Zhejiang Province, P.R., China

Licensee:
MAXGE ELECTRIC TECHNOLOGY CO., LTD.
No.299 East Changhong Road, Wukang Town,
Deqing County,
313200 Zhejiang Province, P.R., China

Product : Residual current operated circuit-breakers without integral overcurrent protection (RCCB)
Trade name(s) : MAXGE
Type(s)/model(s) : SGR, ALR, EPR and EPR-2

The product and any acceptable variation thereto is specified in the Annex to this certificate and the documents therein referred to.

DEKRA hereby declares that the above-mentioned product has been certified on the basis of:
- a type test according to the standard EN 61008-1:2012, EN 61008-1:2012/A1:2014, EN 61008-1:2012/A2:2014, EN 61008-1:2012/A11:2015, EN 61008-1:2012/A12:2017, EN 61008-2-1:1994 and EN 61008-2-1:1994/A11:1998
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 2165673

DEKRA hereby grants the right to use the KEMA-KEUR certification mark.

The KEMA-KEUR certification mark may be applied to the product as specified in this certificate for the duration of the KEMA-KEUR certification agreement and under the conditions of the KEMA-KEUR certification agreement.

This certificate is issued on 26 October 2020 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 33-114615

DEKRA Certification B.V.

B.T.M. Holtus
Managing Director

R Zhou
Certification Manager

© Integral publication of this certificate is allowed

ACCREDITED BY THE
DUTCH ACCREDITATION
COUNCIL



SPECIFICATION OF THE CERTIFIED PRODUCT**Product data**

Product	: Residual current operated circuit-breakers without integral overcurrent protection (RCCB)
Trade name(s)	: MAXGE
Type(s)/model(s)	: SGR, ALR, EPR and EPR-2
Number of poles	: 1P+N, 3P+N
Rated current (In)	: 16, 20, 25, 32, 40, 50, 63, 80 A
Rated residual current (I Δ n)	: 30, 100, 300 mA for 16 A to 80 A, 10 mA for 16 A to 25 A
Rated voltage (Ue)	: 240 Vac (1P+N), 415 Vac (3P+N)
Rated frequency	: 50 / 60 Hz
Behaviour to d.c. Components	: Type A and AC
Time delay	: Without time-delay
Dependent of the line voltage	: No
Rated conditional short-circuit current (I Δ sc)	: 10 kA and 6 kA
Rated conditional residual short-circuit current (I Δ sc)	: 10 kA and 6 kA
Rated making and breaking capacity (Im)	: 500 A or 10 In (whichever is greater)
Rated residual making and breaking capacity (I Δ m)	: 500 A or 10 In (whichever is greater)
The grid distance "a"	: 45 mm
Ambient air temperature	: -25 °C to +40 °C
Method of mounting	: Flush-type, for mounting on top hat rail 35 mm (EN 50022)
Degree of protection against moisture	: IP20
Connection	: Pillar terminal for copper conductors
Markings	: Trade name, type designation and electrical ratings are indicated on the body

TESTS**Test requirements**

EN 61008-1:2012
EN 61008-1:2012/A1:2014
EN 61008-1:2012/A2:2014
EN 61008-1:2012/A11:2015
EN 61008-1:2012/A12:2017
EN 61008-2-1:1994
EN 61008-2-1:1994/A11:1998

Test result

The test results are laid down in DEKRA test file 331804000.

Additional information

The referred test reports are 3318040.50, 3316048.50, 3310153.50 and LCIE CB certificate no. FR_708543 with CB test report no. B200016 and LCIE CB certificate no. FR 685060 with CB test reports B120048-00 to 20 and B160008-00 to 08.

The product also complies with IEC 61008-1:2010, A1:2012, A2:2013 and IEC 61008-2-1:1990.

This certificate replaces certificate No. 33-109036 which we herewith declare invalid.

ZEICHENGENEHMIGUNG MARKS APPROVAL

MAXGE ELECTRIC TECHNOLOGY
CO., LTD
No. 299 East Changhong Road, Wukang Town
313200 DEQING COUNTY
Zhejiang
CHINA

ist berechtigt, für ihr Produkt /
is authorized to use for their product

**Fehlerstromschutzschalter ohne eingebauten
Überstromschutz, netzspannungsunabhängig (RCCB)**
***RCCB, residual current operated circuit-breaker without integral
overcurrent protection, functionally independent of line voltage***

die hier abgebildeten markenrechtlich geschützten Zeichen
für die ab Blatt 2 aufgeführten Typen zu benutzen /
the legally protected Marks as shown below for the types referred to on page 2 ff.



Geprüft und zertifiziert nach /
Tested and certified according to

DIN EN 61008-1 (VDE 0664-10):2018-03; EN 61008-1:2012+A1+A2+A11+A1/AC:2016+A12:2017
DIN EN 61008-2-1 (VDE 0664 Teil 11):1999-12; EN 61008-2-1:1994+A11:1998

VDE Prüf- und Zertifizierungsinstitut GmbH
VDE Testing and Certification Institute
Zertifizierungsstelle / *Certification*

Aktenzeichen: 5017202-1720-0001 / 253352

File ref.:

Ausweis-Nr. 40050898

Certificate No.

Weitere Bedingungen siehe Rückseite und Folgeblätter /
further conditions see overleaf and following pages

Offenbach, 2019-10-28

Blatt 1
Page

VDE Zertifikate sind nur gültig bei Veröffentlichung unter:
VDE certificates are valid only when published on:

<http://www.vde.com/zertifikat>
<http://www.vde.com/certificate>



LCIE

BV LCIE
CHINA
Number

N°1666AS01MXG19350

ATTESTATION of conformity with European Directives

Product: RCCB
Reference: ALRxxxxxxx, EPRxxxxxxx, EPR-2xxxxxxx, SGRxxxxxxx Series
Issued to: ZHEJIANG MAXGE ELECTRIC TECHNOLOGY CO.,LTD
Address: NO.299 EAST CHANGHONG ROAD,DEQING ECONOMIC DEVELOPMENT ZONE,WUKANG DEQING CHINA
Manufacturer: ZHEJIANG MAXGE ELECTRIC TECHNOLOGY CO.,LTD
Technical characteristics:
 1P+N and 3P+N (Neutral on right)
 240V(1P+N);415V(3P+N)
 Type AC and Type A (30mA;100mA;300mA) for 16A; 20A; 25A; 32A; 40A; 50A; 63A; 80A
 Type AC and Type A (10mA) only for 16A; 20A; 25A
 In = 16A; 20A; 25A; 32A; 40A; 50A; 63A; 80A
 Inc = 10000A;IΔc = 10000A
 Im = IΔm = 500A for In:16A; 20A; 25A; 32A; 40A; 50A;10In for other In
 IΔn = 10mA; 30mA; 100mA; 300mA
 IΔno = 5mA;15mA, 50mA, 150mA

The submitted sample of the above equipment has been tested for **CE** marking according to following European Directive and following standards:

LVD Directive 2006/95/EC*

* Thanks to note that from April 20th 2016; this directive will be replaced by the new LVD directive, 2014/35/EU.

Standards	Report number	Report date
EN61008-1: 2012 EN 61008-2-1:1994 + A11:1998	B120048-01 to B120048-18; B120048-00 amendment No.1, B120048-19, B120048-20	08/05/2013; 07/01/2016

The referred test report(s) show that the product complies with standard(s) recognized as giving presumption of compliance with the essential requirements in the specified European Directive

This verification does not imply assessment of the production of the product
The **CE** marking may be affixed if all relevant and effective European Directives with **CE** are applicable

Shanghai (P.R. China), January 19th, 2016



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Information given in this document, are related to the tested specimen of the described electrical sample.

LCIE CHINA
必维欧亚电气技术咨询服务(上海)有限公司
Version 2/2015.6.9

Building 4, No. 518, Xin Zhuan Road,
CaoHejing Songjiang High-Tech Park,
Shanghai P.R.C (201612)

Tel: +86 21 6195 7000
Fax: +86 21 6195 7001
Email: contact@cn.bureauveritas.com



Ref. Certif. No.

FR 642428/M1

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

SYSTEME CEI D'ACCEPTATION MUTUELLE DE CERTIFICATS D'ESSAIS DES EQUIPEMENTS ELECTRIQUES (IECEE) METHODE OC

CB TEST CERTIFICATE / CERTIFICAT D'ESSAI OC

Product / Produit

Residual current operated circuit-breakers without integral overcurrent protection (RCCB)

Name and address of the applicant / Nom et adresse du demandeur

ZHEJIANG MAXGE ELECTRIC TECHNOLOGY CO.,LTD NO.299 EAST CHANGHONG ROAD,DEQING ECONOMIC DEVELOPMENT ZONE, WUKANG DEQING , China

Name and address of the manufacturer / Nom et adresse du fabricant

ZHEJIANG MAXGE ELECTRIC TECHNOLOGY CO.,LTD NO.299 EAST CHANGHONG ROAD,DEQING ECONOMIC DEVELOPMENT ZONE, WUKANG DEQING , China

Name and address of the factory / Nom et adresse de l'usine

ZHEJIANG MAXGE ELECTRIC TECHNOLOGY CO.,LTD NO.299 EAST CHANGHONG ROAD,DEQING ECONOMIC DEVELOPMENT ZONE, WUKANG DEQING , China

Note : When more than one factory, please report on page 2 / Note : Lorsqu'il y a plus d'une usine, veuillez utiliser la 2ème page

Ratings and principal characteristics / Valeurs nominales et caractéristiques principales

See annex 1

Trademark (if any) / Marque de fabrique (si elle existe)

MAXGE

Type of Manufacturer's Testing Laboratories used / Type de programme du laboratoire d'essais constructeur

/

Model / Type Ref. / Ref. De type

Series: ALR, EPR, EPR-2, SGR / References: see annex 1

Additional information (if necessary may also be reported on page 2) / Informations complémentaires (si nécessaire, peuvent être indiquées sur la 2ème page)

See annex 1 / Supersedes the CB n° 642428 dated 2013-06-04 (addition of a series EPR-2)

A sample of the product was tested and found to be in conformity with / Un échantillon de ce produit a été essayé et a été considéré conforme à la

PUBLICATION EDITION / IEC 61008-1:2010(ed.3) +A1:2012 / IEC 61008-2-1:1990(ed.1)

As shown in the Test Report Ref. No. which forms part of this Certificate / Comme indiqué dans le Rapport d'essais numéro de référence qui constitue partie de ce Certificat

B120048-00 to B120048-18, B120048-00 Amendment No1, B120048-019 to B120048-20

This CB Test Certificate is issued by the National Certification Body / Ce Certificat d'essai OC est établi par l'Organisme National de Certification



Laboratoire Central des Industries Électriques

33, av du Général Leclerc – BP 8 / FR 92266 Fontenay-aux-Roses cedex / www.lcie.fr



Date: 2016-01-14

Signature: Jean François BRUEL / Certification Officer

Annex 1

References number code system BBBSCYYZZ

BBB= type of enclosure
 SGR= SGR type of enclosure
 ALR= ALR type of enclosure
 EPR= EPR type of enclosure
 EPR2= EPR-2 type of enclosure

S= Number of pole
 2=1P+N
 4=3P+N

CC=Current rating
 16 =16A
 20 =20A
 25 =25A
 32 =32A
 40 =40A
 50 =50A
 63=63A
 80=80A

YYY= Rated residual operating current(I_{Δn})
 10=10mA
 30=30mA
 100=100mA
 300=300mA

ZZ= Type of RCCB
 A= Type A
 AC=Type AC

(Example for a reference series SGR, 1P+N, 16A, 30mA, type AC – SGR21630AC)

CHARACTERISTICS OF APPLIANCE

Independent of line voltage :	yes
Dependent of line voltage :	no
Rated voltage U _e : (V)	240V for 1P+N, 415V for 3P+N
Rated current I _n : (A)	16, 20, 25, 32, 40, 50, 63, 80
Rated frequency : (Hz)	50/60
Rated residual operating current I _{Δn} : (A)	Type AC and Type A (30mA;100mA;300mA) for 16A to 80A Type AC and Type A (10mA) only for 16A; 20A; 25A
Type :	A and AC
Temporisation :	without
Nature of supply :	AC
Total number of poles :	1P+N, 3P+N (neutral on right)
Rated insulation voltage U _i : (V)	415
Rated impulse withstand voltage U _{imp} : (V)	4000
Utilisation range temperature : (°C)	-25°C to +40°C
Rated making and breaking capacity I _m : (A)	500A for I _n :16A to 50A
Rated residual making and breaking capacity I _{Δm} : (A)	630A for I _n :63A 800A for I _n :80A
Rated conditional short-circuit current I _{nc} : (A)	10000
Rated conditional residual short-circuit current I _{Δc} : (A)	10000
Short-circuit protection devices	SCPDs used : SILVER WIRE
Grid distance (short-circuit tests) :	45mm
Protection against external influences :	Enclosed
Protection degree :	IP20
Material group:	Group IIIa
Method of mounting :	Panel board - on rail
Method of electrical connection :	
not associated with the mechanical-mounting	yes
Type of terminals :	Pillar terminal
Nominal diameter of thread : (mm)	5,9
Operating means	lever

Additional Information (if necessary)
 Informations complémentaires (si nécessaire)



Laboratoire Central des Industries Électriques
 33,av du Général Leclerc – BP 8
 FR 92266 Fontenay-aux-Roses cedex
 www.lcie.fr

Date: 2016-01-14

Signature:

Jean-François BRUJL
 Certification Officer

