

# CERTIFICATE

Issued to:  
Applicant:  
**Zhejiang MAXGE Electric Technology Co., Ltd.**  
**No. 299, East Changhong Road, Deqing**  
**Economic Zone, Wukang, Deqing, Zhejiang,**  
**China 313200**

Manufacturer/Licensee:  
**Zhejiang MAXGE Electric Technology Co., Ltd.**  
**No. 299, East Changhong Road, Deqing**  
**Economic Zone, Wukang, Deqing, Zhejiang,**  
**China 313200**

Product(s) : MCCB  
Trade name(s) : MAXGE  
Type(s)/model(s) : SGM3S-160M, SGM3S-160L

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 60947-2:2006 + A1:2009 + A2:2013, IEC 60947-2:2006 + A1:2009 + A2:2013;
- 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.

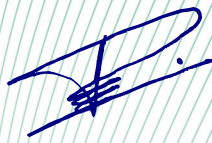
This certificate is issued on: 23 August 2016 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 3306228.01

DEKRA Certification B.V.



drs. G.J. Zoetbrood  
Managing Director



F.S. Strikwerda  
Certification Manager

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ACCREDITED BY THE  
DUTCH ACCREDITATION  
COUNCIL



**SPECIFICATION OF THE CERTIFIED PRODUCT****Product data**

product	: MCCB
trade name(s)	: MAXGE
type(s)	: SGM3S-160M, SGM3S-160L
number of poles	: 3P and 4P (unprotected N pole)
protected pole	: 3
rated operational voltage (Ue)	: 380 Vac / 400 Vac / 415 Vac
rated insulation voltage (Ui)	: 800 Vac
rated impulse withstand voltage (Uimp)	: 8 kV
rated current (In)	: 16 A, 20 A, 25 A, 30 A, 32 A, 40 A, 50 A, 60 A, 63 A, 70 A, 75 A, 80 A, 90 A, 100 A, 125 A, 140 A, 150 A, 160 A
rated operational current (Ie)	: 0,8 In - 1,0 In
conventional thermal current (Ith)	: Equal to In
current rating for four-pole circuit-breakers	: Equal to In
rated frequency	: 50 / 60 Hz
reference temperature	: 40 °C and 55 °C
ambient temperature	: - 5 °C to 40 °C for reference temperature 40 °C - 5 °C to 40 °C and 55 °C for reference temperature 55 °C
rated ultimate short-circuit breaking capacity (Icu)	: SGM3S-160M: 50 kA, SGM3S-160L: 36 kA
rated service short-circuit breaking capacity (Ics)	: SGM3S-160M: 36 kA, SGM3S-160L: 27 kA
suitable for isolation	: Suitable
utilization category	: A
safety distance (screen-circuit breaker)	: Front / Back: 0 mm, Left / Right: 50 mm, Up / Down: 50 mm
instantaneous release	: Magnetic type, fixed, 2 poles in series: $I_i = 10 I_n$ single pole: $12 I_n$
time setting of the instantaneous release	: Fixed
inverse time delay release	: Thermal type, $I_r = 0,8 I_n - 1,0 I_n$
time setting of the inverse time delay release	: Fixed, trip time at $2 I_n$ : $1 \text{ min} \leq t \leq 10 \text{ min}$
method of mounting	: Fixed
EMC environment	: A and B
Individual pole short-circuit breaking capacity (I <sub>su</sub> )	: N/A
Individual pole short-circuit breaking capacity (I <sub>it</sub> )	: N/A
rated tightening torque for terminals	: 6 Nm
line/load terminal connection	: Marked Copper conductor with cable lug

**Additional information**

Nomenclature breakdown:

SGM3S-160M/4300

a        b    c d

a = Model name: SGM3S

b = Frame size: 160

c = short-circuit capacity: 'M' or 'L'

d = pole numbers, '4' means 4P MCCBs, '3' means 3P MCCBs

**TESTS****Test requirements**

EN 60947-2:2006 + A1:2009 + A2:2013

IEC 60947-2:2006 + A1:2009 + A2:2013

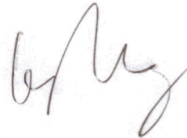
**Test result**

The test results are laid down in DEKRA test file 3306228.01 and report 3306228.50.

**Conclusion**

The examination proved that all test requirements were met.

Tested by        : King Wang



Checked by        : Eric Wang

**Factory locations**

Zhejiang MAXGE Electric Technology Co., Ltd

No. 299, East Changhong Road, Deqing Economic Zone, Wukang, Deqing, Zhejiang, China 313200