

CERTIFICATE

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

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

Product : Moulded-Case Circuit-Breaker
Trade name(s) : GEBLER or GEMAX
Type(s)/model(s) : SGM6-160C, SGM6-160H, SGM6-160L, SGM6-160M, SGM6s-160H,
SGM6s-160L, SGM6s-160M, SGM6sm-160H, SGM6sm-160L and
SGM6sm-160M

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

DEKRA hereby declares that the above-mentioned product has been certified based on:

- a type test according to EN 60947-2:2017, EN 60947-2:2017/A1:2020, IEC 60947-2:2016 and IEC 60947-2:2016/AMD1:2019
- an inspection of the factory location according to CENELEC Operational Document CIG 021
- a DEKRA certification agreement with the number 6059401

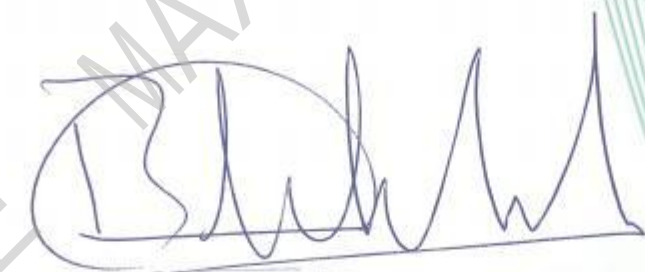
DEKRA hereby grants the right to use the DEKRA Mark.

The DEKRA Mark may be applied to the product as specified in this certificate for the duration and under the conditions of the DEKRA Mark certification agreement.

This certificate is issued on 3 July 2024 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 33-143452

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



Miranda Zhou
Certification Manager

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DUTCH ACCREDITATION
COUNCIL



33-143452

DEKRA Mark is the new KEMA-KEUR

The DEKRA Mark certificate for this product is to all intents and purposes equivalent to a KEMA-KEUR certificate, the other certification mark used by DEKRA and should be valued and used as such. DEKRA Mark is gradually replacing KEMA-KEUR.

For more information please check: [Introducing DEKRA Mark](#)

SPECIFICATION OF THE CERTIFIED PRODUCT

Product data

Product	: Moulded-Case Circuit-Breaker
Trade name(s)	: GEBLER or GEMAX
Type(s)/model(s)	: SGM6-160C, SGM6-160H, SGM6-160L, SGM6-160M, SGM6s-160H, SGM6s-160L, SGM6s-160M, SGM6sm-160H, SGM6sm-160L and SGM6sm-160M
Number of poles	: 3P and 4P (N pole without overcurrent protection)
Rated operational voltage (Ue)	: 380 Vac / 400 Vac / 415 Vac
Rated insulation voltage (Ui)	: 1000 V
Rated impulse withstand voltage (Uimp)	: 8 kV
Rated frequency	: 50 / 60 Hz
Rated current (In)	: 30 A, 32 A, 40 A, 50 A, 63 A, 70 A, 75 A, 80 A, 100 A, 125 A, 140 A, 150 A, 160 A
Conventional thermal current (Ith)	: Equal to In
Current rating for four-pole circuit-breakers	: Equal to In
Individual pole short-circuit (Itr)	: 12 In
Suitable for isolation	: Suitable
Selectivity category	: A
Safety distance (screen-circuit breaker)	: Front / Back: 0 mm, Left / Right: 50 mm, Up / Down: 50 mm
Reference temperature	: 40 °C or 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
Method of mounting	: Fixed
EMC environment	: A and B
Tightening torque for terminals	: M8 / 6 Nm

Product data – type SGM6-160C

Rated service short-circuit breaking capacity (Ics)	: 25 kA
Rated ultimate short-circuit breaking capacity (Icu)	: 25 kA
Line/load terminal	: Immaterial
Connection	: Unprepared copper conductor: 2,5 mm ² - 70 mm ²
Inverse time delay release	: Fixed
Time setting of the inverse time delay release	: Fixed, tripping time at 2 In: 120 s - 900 s
Instantaneous release	: li: 10 In

Product data – type SGM6-160H

Rated service short-circuit breaking capacity (Ics)	: 50 kA
Rated ultimate short-circuit breaking capacity (Icu)	: 65 kA / 50 kA
Line/load terminal	: Marked

Connection : Prepared copper conductor with cable lug
Inverse time delay release : Fixed
Time setting of the inverse time delay release : Fixed, tripping time at 2 In: 120 s - 900 s
Instantaneous release : li: 10 In

Product data – type SGM6-160L

Rated service short-circuit breaking capacity (Ics) : 25 kA
Rated ultimate short-circuit breaking capacity (Icu) : 36 kA / 25 kA
Line/load terminal : Marked
Connection : Prepared copper conductor with cable lug
Inverse time delay release : Fixed
Time setting of the inverse time delay release : Fixed, tripping time at 2 In: 120 s - 900 s
Instantaneous release : li: 10 In

Product data – type SGM6-160M

Rated service short-circuit breaking capacity (Ics) : 36 kA
Rated ultimate short-circuit breaking capacity (Icu) : 50 kA / 36 kA
Line/load terminal : Marked
Connection : Prepared copper conductor with cable lug
Inverse time delay release : Fixed
Time setting of the inverse time delay release : Fixed, tripping time at 2 In: 120 s - 900 s
Instantaneous release : li: 10 In

Product data – type SGM6s-160H

Rated service short-circuit breaking capacity (Ics) : 50 kA
Rated ultimate short-circuit breaking capacity (Icu) : 65 kA / 50 kA
Line/load terminal : Marked
Connection : Prepared copper conductor with cable lug
Inverse time delay release : Ir: (0,8, 0,9, 1,0) x In or (0,7, 0,85, 1,0) x In
Time setting of the inverse time delay release : Fixed, tripping time at 2 Ir: 120 s - 900 s
Instantaneous release : li: 10 In

Product data – type SGM6s-160L

Rated service short-circuit breaking capacity (Ics) : 25 kA
Rated ultimate short-circuit breaking capacity (Icu) : 36 kA / 25 kA
Line/load terminal : Marked
Connection : Prepared copper conductor with cable lug
Inverse time delay release : Ir: (0,8, 0,9, 1,0) x In or (0,7, 0,85, 1,0) x In
Time setting of the inverse time delay release : Fixed, tripping time at 2 Ir: 120 s - 900 s
Instantaneous release : li: 10 In