

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 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 and under the conditions of the KEMA-KEUR certification agreement.

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

Certificate number: 33-142257

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



Miranda Zhou
Certification Manager

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COUNCIL



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 I _n : 120 s - 900 s
Instantaneous release	: I _i : 10 I _n

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 I _n : 120 s - 900 s
Instantaneous release	: I _i : 10 I _n

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	: I _r : (0,8, 0,9, 1,0) x I _n or (0,7, 0,85, 1,0) x I _n
Time setting of the inverse time delay release	: Fixed, tripping time at 2 I _r : 120 s - 900 s
Instantaneous release	: I _i : 10 I _n

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	: I _r : (0,8, 0,9, 1,0) x I _n or (0,7, 0,85, 1,0) x I _n
Time setting of the inverse time delay release	: Fixed, tripping time at 2 I _r : 120 s - 900 s
Instantaneous release	: I _i : 10 I _n

Product data – type SGM6s-160M

Rated service short-circuit breaking capacity (Ics)	: 36 kA
Rated ultimate short-circuit breaking capacity (Icu)	: 50 kA / 36 kA