

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) : SGM6E-800H, SGM6E-800M, iSGM6E-800H and iSGM6E-800M

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 7 July 2024 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 33-143644

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



Miranda Zhou
Certification Manager

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COUNCIL



33-143644

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)	: SGM6E-800H, SGM6E-800M, iSGM6E-800H and iSGM6E-800M
Number of poles	: 3P and 4P (N pole without overcurrent protection)
Protected pole	: 3 or 4
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)	: 630 A, 800 A
Conventional thermal current (Ith)	: Equal to In
Current rating for four-pole circuit-breakers	: Equal to In
Rated short-time withstand current (Isw)	: 10 kA - 1 s
Individual pole short-circuit (Irr)	: 1,2 maximum Isd
Suitable for isolation	: Suitable
Selectivity category	: B
Safety distance (screen-circuit breaker)	: Front / Back: 0 mm, Left / Right: 100 mm, Up / Down: 100 mm
Reference temperature	: Independent
Method of mounting	: Fixed
EMC environment	: A and B
Tightening torque for terminals	: M12 / 14 Nm
Line/load terminal	: Marked
Connection	: Copper conductor with cable lug for 630 A Copper conductor with cable lug or copper busbar for 800 A

Product data – type iSGM6E-800H

Rated service short-circuit breaking capacity (Ics)	: 75 kA
Rated ultimate short-circuit breaking capacity (Icu)	: 100 kA / 75 kA
Inverse time delay release	: Ir: (0,4-1,0) x In, in step of 1 A
Time setting of the inverse time delay release	: tr: 12 - 150 s at 2 Ir + OFF, in step of 1s, with tolerance of ± 10% tripping time at 2 Ir: 12 ± 10% (tr = 12 s) 150 s ± 10% (tr = 150 s)
Short time delay release	: Isd: (2 - 10) x Ir for 800 A, in step of 1 A Isd: (2 - 12) x Ir for 630 A, in step of 1 A

Time setting of the short time delay release	: tsd: 0,06 - 1,0 s + OFF, in step of 0,01s, with tolerance of $\pm 10\%$ (min. 40 ms) non-tripping duration: Set at 0,06 s: 0,02 s, Set at 1,0 s: 0,9 s
Instantaneous release	: li: (4 - 12) x Ir + OFF for 800 A, in step of 1 A li: (4 - 14) x Ir + OFF for 630 A, in step of 1 A
Ground fault release	: lg: (0,2 - 1,0) x In + OFF, in step of 1 A (only for 4P) tg: 0,4 - 1 s, in step of 0,1 s, with tolerance of $\pm 10\%$

Product data – type ISGM6E-800M

Rated service short-circuit breaking capacity (Ics)	: 60 kA
Rated ultimate short-circuit breaking capacity (Icu)	: 85 kA / 60 kA
Inverse time delay release	: Ir: (0,4-1,0) x In, in step of 1 A
Time setting of the inverse time delay release	: tr: 12 - 150 s at 2 Ir + OFF, in step of 1s, with tolerance of $\pm 10\%$ tripping time at 2 Ir: 12 $\pm 10\%$ (tr = 12 s) 150 s $\pm 10\%$ (tr = 150 s)
Short time delay release	: Isd: (2 - 10) x Ir for 800 A, in step of 1 A Isd: (2 - 12) x Ir for 630 A, in step of 1 A
Time setting of the short time delay release	: tsd: 0,06 - 1,0 s + OFF, in step of 0,01s, with tolerance of $\pm 10\%$ (min. 40 ms) non-tripping duration: Set at 0,06 s: 0,02 s, Set at 1,0 s: 0,9 s
Instantaneous release	: li: (4 - 12) x Ir + OFF for 800 A, in step of 1 A li: (4 - 14) x Ir + OFF for 630 A, in step of 1 A
Ground fault release	: lg: (0,2 - 1,0) x In + OFF, in step of 1 A (only for 4P) tg: 0,4 - 1 s, in step of 0,1 s, with tolerance of $\pm 10\%$

Product data – type SGM6E-800H

Rated service short-circuit breaking capacity (Ics)	: 75 kA
Rated ultimate short-circuit breaking capacity (Icu)	: 100 kA / 75 kA
Inverse time delay release	: Ir: 320, 435, 550, 630, 660, 690, 715, 745, 770, 800 A for 800 A Ir: 252, 300, 350, 400, 435, 475, 515, 550, 595, 630 A for 630A
Time setting of the inverse time delay release	: tr: 12, 60, 100, 150 s at 2 Ir + OFF, with tolerance of $\pm 10\%$ tripping time at 2 Ir: 12 $\pm 10\%$ (tr = 12 s) 150 s $\pm 10\%$ (tr = 150 s)
Short time delay release	: Isd: (2, 2,5, 3, 3,5, 4, 5, 6, 7, 8, 10) x Ir for 800 A Isd: (2, 2,5, 3, 4, 5, 6, 7, 8, 10, 12) x Ir for 630 A
Time setting of the short time delay release	: tsd: 0,06, 0,1, 0,2, 0,3, 0,4, 0,5, 1,0 s + OFF, with tolerance of $\pm 10\%$ (min. 40 ms) non-tripping duration: Set at 0,06 s: 0,02 s, Set at 1,0 s: 0,9 s
Instantaneous release	: li: (4, 5, 6, 7, 8, 9, 10, 11, 12) x Ir + OFF for 800 A li: (4, 6, 7, 8, 9, 10, 11, 12, 14) x Ir + OFF for 630 A