

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

Certificate number: 33-142601

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



Miranda Zhou
Certification Manager

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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 (Icw)	: 10 kA - 1 s
Individual pole short-circuit (I _{pn})	: 1,2 maximum I _{sd}
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 (I _{cs})	: 75 kA
Rated ultimate short-circuit breaking capacity (I _{cu})	: 100 kA / 75 kA
Inverse time delay release	: I _r : (0,4-1,0) x I _n , in step of 1 A
Time setting of the inverse time delay release	: t _r : 12 - 150 s at 2 I _r + OFF, in step of 1s, with tolerance of ± 10% tripping time at 2 I _r : 12 ± 10% (t _r = 12 s) 150 s ± 10% (t _r = 150 s)
Short time delay release	: I _{sd} : (2 - 10) x I _r for 800 A, in step of 1 A I _{sd} : (2 - 12) x I _r for 630 A, in step of 1 A
Time setting of the short time delay release	: t _{sd} : 0,06 - 1,0 s + OFF, in step of 0,01s, with tolerance of ± 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	: I _i : (4 - 12) x I _r + OFF for 800 A, in step of 1 A I _i : (4 - 14) x I _r + OFF for 630 A, in step of 1 A
Ground fault release	: I _g : (0,2 - 1,0) x I _n + OFF, in step of 1 A (only for 4P) t _g : 0,4 - 1 s, in step of 0,1 s, with tolerance of ± 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	: Ig: (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
Ground fault release	: Ig: (0,2, 0,3, 0,4, 0,5, 0,6, 0,7, 0,8, 0,9, 1,0) x In + OFF (only for 4P) tg: fixed at 0,4 s, with tolerance of $\pm 10\%$

Product data – type SGM6E-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: 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