

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) : MAXGE
Type(s)/model(s) : SGM6E-400H, SGM6E-400M, SGM6E-630H, SGM6E-630M, iSGM6E-400H,
iSGM6E-400M, iSGM6E-630H and iSGM6E-630M

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 4 November 2024 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 33-147830

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)	: MAXGE
Type(s)/model(s)	: SGM6E-400H, SGM6E-400M, SGM6E-630H, SGM6E-630M, iSGM6E-400H, iSGM6E-400M, iSGM6E-630H and iSGM6E-630M
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
Conventional thermal current (Ith)	: Equal to In
Current rating for four-pole circuit-breakers	: Equal to In
Rated short-time withstand current (Icw)	: 8 kA - 1 s
Individual pole short-circuit (Itr)	: 12 In
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	: M10 / 10 Nm
Line/load terminal	: Marked
Connection	: Copper conductor with cable lug for 250 A and 400 A, copper conductor with cable lug or copper busbar with (40 x 5) mm ² x 2 for 630 A

Product data – type iSGM6E-400H

Rated current (In)	: 250 A, 300 A, 315 A, 320 A, 400 A
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 - 12) x Ir
Time setting of the short time delay release	: tsd: 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	: li: (4 - 14) x Ir + OFF, 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 ± 10%

Product data – type ISGM6E-400M

Rated current (In)	: 250 A, 300 A, 315 A, 320 A, 400 A
Rated service short-circuit breaking capacity (Ics)	: 60 kA
Rated ultimate short-circuit breaking capacity (Icu)	: 60 kA / 85 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 - 12) x Ir, 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 ± 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 - 14) x Ir + OFF, 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 ± 10%

Product data – type ISGM6E-630H

Rated current (In)	: 250 A, 300 A, 315 A, 320 A, 400 A, 500 A, 600 A, 630 A
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 - 12) x Ir
Time setting of the short time delay release	: tsd: 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	: li: (4 - 14) x Ir + OFF, 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 ± 10%

Product data – type ISGM6E-630M

Rated current (In)	: 250 A, 300 A, 315 A, 320 A, 400 A, 500 A, 600 A, 630 A
Rated service short-circuit breaking capacity (Ics)	: 60 kA
Rated ultimate short-circuit breaking capacity (Icu)	: 60 kA / 85 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)