

# 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) : SGM6-250C, SGM6-250H, SGM6-250L, SGM6-250M, SGM6s-250H,  
SGM6s-250L, SGM6s-250M, SGM6sm-250H, SGM6sm-250L and  
SGM6sm-250M

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

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

- a type test according to EN 60947-2:2017, EN 60947-2:2017/A1:2020, IEC 60947-2:2016 and IEC 60947-2:2016/A1:2019
- 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 13 June 2023 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 33-128150

DEKRA Certification B.V.



B.T.M. Holtus  
Managing Director



K. Lin  
Certification Manager

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DUTCH ACCREDITATION  
COUNCIL



**SPECIFICATION OF THE CERTIFIED PRODUCT**
**Product data**

|                                               |                                                                                                                            |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Product                                       | : Moulded-Case Circuit-Breaker                                                                                             |
| Trade name(s)                                 | : MAXGE                                                                                                                    |
| Type(s)/model(s)                              | : SGM6-250C, SGM6-250H, SGM6-250L, SGM6-250M, SGM6s-250H, SGM6s-250L, SGM6s-250M, SGM6sm-250H, SGM6sm-250L and SGM6sm-250M |
| 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)                            | : 100 A, 125 A, 140 A, 150 A, 160 A, 175 A, 180 A, 200 A, 225 A, 250 A                                                     |
| Conventional thermal current (Ith)            | : Equal to In                                                                                                              |
| Current rating for four-pole circuit-breakers | : Equal to In                                                                                                              |
| Individual pole short-circuit (IIT)           | : 12 In                                                                                                                    |
| Suitable for isolation                        | : Suitable                                                                                                                 |
| Selectivity category                          | : A                                                                                                                        |
| Safety distance (screen-circuit breaker)      | : Front / Back: 0 mm,<br>Left / Right: 50 mm,<br>Up / Down: 50 mm                                                          |
| Reference temperature                         | : 40 °C or 55 °C                                                                                                           |
| Ambient temperature                           | : - 5 °C to 40 °C for reference temperature 40 °C<br>- 5 °C to 40 °C and 55 °C for reference temperature 55 °C             |
| Method of mounting                            | : Fixed                                                                                                                    |
| EMC environment                               | : A and B                                                                                                                  |

**Product data – type SGM6-250C**

|                                                      |                                                              |
|------------------------------------------------------|--------------------------------------------------------------|
| Rated service short-circuit breaking capacity (Ics)  | : 25 kA                                                      |
| Rated ultimate short-circuit breaking capacity (Icu) | : 25 kA                                                      |
| Tightening torque for terminals                      | : M10 / 10 Nm                                                |
| Line/load terminal                                   | : Immaterial                                                 |
| Connection                                           | : Copper conductor: 16 mm <sup>2</sup> - 120 mm <sup>2</sup> |
| Inverse time delay release                           | : Fixed                                                      |
| Time setting of the inverse time delay release       | : Fixed, tripping time at 2 In: 30 s - 11 min                |
| Instantaneous release                                | : li: 10 In                                                  |

**Product data – type SGM6-250H**

|                                                      |                                               |
|------------------------------------------------------|-----------------------------------------------|
| Rated service short-circuit breaking capacity (Ics)  | : 50 kA                                       |
| Rated ultimate short-circuit breaking capacity (Icu) | : 65 kA / 50 kA                               |
| Tightening torque for terminals                      | : M8 / 6 Nm                                   |
| Line/load terminal                                   | : Marked                                      |
| Connection                                           | : Copper conductor with cable lug             |
| Inverse time delay release                           | : Fixed                                       |
| Time setting of the inverse time delay release       | : Fixed, tripping time at 2 In: 30 s - 11 min |
| Instantaneous release                                | : li: 10 In                                   |

**Product data – type SGM6-250L**

|                                                      |                                               |
|------------------------------------------------------|-----------------------------------------------|
| Rated service short-circuit breaking capacity (Ics)  | : 25 kA                                       |
| Rated ultimate short-circuit breaking capacity (Icu) | : 36 kA / 25 kA                               |
| Tightening torque for terminals                      | : M8 / 6 Nm                                   |
| Line/load terminal                                   | : Marked                                      |
| Connection                                           | : Copper conductor with cable lug             |
| Inverse time delay release                           | : Fixed                                       |
| Time setting of the inverse time delay release       | : Fixed, tripping time at 2 In: 30 s - 11 min |
| Instantaneous release                                | : li: 10 In                                   |

**Product data – type SGM6-250M**

|                                                      |                                               |
|------------------------------------------------------|-----------------------------------------------|
| Rated service short-circuit breaking capacity (Ics)  | : 36 kA                                       |
| Rated ultimate short-circuit breaking capacity (Icu) | : 50 kA / 36 kA                               |
| Tightening torque for terminals                      | : M8 / 6 Nm                                   |
| Line/load terminal                                   | : Marked                                      |
| Connection                                           | : Copper conductor with cable lug             |
| Inverse time delay release                           | : Fixed                                       |
| Time setting of the inverse time delay release       | : Fixed, tripping time at 2 In: 30 s - 11 min |
| Instantaneous release                                | : li: 10 In                                   |

**Product data – type SGM6s-250H**

|                                                      |                                                     |
|------------------------------------------------------|-----------------------------------------------------|
| Rated service short-circuit breaking capacity (Ics)  | : 50 kA                                             |
| Rated ultimate short-circuit breaking capacity (Icu) | : 65 kA / 50 kA                                     |
| Tightening torque for terminals                      | : M8 / 6 Nm                                         |
| Line/load terminal                                   | : Marked                                            |
| Connection                                           | : 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: 30 s - 11 min       |
| Instantaneous release                                | : li: 10 In                                         |

**Product data – type SGM6s-250L**

|                                                      |                                                     |
|------------------------------------------------------|-----------------------------------------------------|
| Rated service short-circuit breaking capacity (Ics)  | : 25 kA                                             |
| Rated ultimate short-circuit breaking capacity (Icu) | : 36 kA / 25 kA                                     |
| Tightening torque for terminals                      | : M8 / 6 Nm                                         |
| Line/load terminal                                   | : Marked                                            |
| Connection                                           | : 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: 30 s - 11 min       |
| Instantaneous release                                | : li: 10 In                                         |