

ATTESTATION OF CONFORMITY

Issued to: MAXGE ELECTRIC TECHNOLOGY CO., LTD.
No.299 East Changhong Road, Wukang Town, 313200 Deqing County,
Zhejiang, China

For the product: Moulded-Case Circuit-Breaker

Trade name: MAXGE

Type/Model: SGM6sm-160H, SGM6sm-160M, SGM6sm-160L,
SGM6s-160H, SGM6s-160M, SGM6s-160L,
SGM6-160H, SGM6-160M, SGM6-160L and SGM6-160C

Ratings: Ue: 380 Vac / 400 Vac / 415 Vac, 50 / 60 Hz, Ui: 1000 V, Uimp: 8 kV
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
3P and 4P (N pole without overcurrent protection)
See annex for further ratings

Manufactured by: MAXGE ELECTRIC TECHNOLOGY CO., LTD.
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Zhejiang, China

Subject: Type test

Requirements: EN 60947-2:2017, EN 60947-2:2017/A1:2020,
IEC 60947-2:2016, IEC 60947-2:2016/A1:2019

This Attestation is granted on account of an examination by DEKRA, the results of which are laid down in a test report no 3323623.50 issued on 2023-09-27.

This Attestation implies that the examined types are in accordance with the standards designated under the Low voltage directive (LVD) 2014/35/EU.

The examination has been carried out on one single specimen or several specimens of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

The CE marking may be affixed on the product if all relevant and effective EC directives are complied with.

Wenzhou, Zhejiang, 13 October 2023 Number: 3323623.01-AOC

DEKRA Testing Services (Zhejiang) Co., Ltd

Ms J Guo
Certification Manager

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Ratings:

Number of poles	: 3P and 4P (N pole without overcurrent protection)
Rated operational voltage (U _e)	: 380 Vac / 400 Vac / 415 Vac
Rated insulation voltage (U _i)	: 1000 V
Rated impulse withstand voltage (U _{imp})	: 8 kV
Rated frequency	: 50 / 60 Hz
Rated current (I _n)	: 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 (I _{th})	: Equal to I _n
Current rating for four-pole circuit-breakers	: Equal to I _n
Individual pole short-circuit (I ^{IT})	: 12 I _n
Suitable for isolation	: Suitable
Selectivity category	: A
Safety distance (screen-circuit breaker)	: Front / Back: 50 mm, Left / Right: 50 mm, Up / Down: 0 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 rating - SGM6sm-160H

Rated service short-circuit breaking capacity (I _{cs})	: 50 kA
Rated ultimate short-circuit breaking capacity (I _{cu})	: 65 kA / 50 kA
Line/load terminal Connection	: Marked 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 : (5, 6, 7, 8, 9, 10) x I _n

Product rating - SGM6sm-160M

Rated service short-circuit breaking capacity (I _{cs})	: 36 kA
Rated ultimate short-circuit breaking capacity (I _{cu})	: 50 kA / 36 kA
Line/load terminal Connection	: Marked 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 : (5, 6, 7, 8, 9, 10) x I _n

Product rating - SGM6sm-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	: 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: 120 s - 900 s
Instantaneous release	: Ii: (5, 6, 7, 8, 9, 10) x In

Product rating - 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	: 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: 120 s - 900 s
Instantaneous release	: Ii: 10 In

Product rating - SGM6s-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	: 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: 120 s - 900 s
Instantaneous release	: Ii: 10 In

Product rating - 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	: 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: 120 s - 900 s
Instantaneous release	: Ii: 10 In

Product rating - 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 rating - 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 In: 120 s - 900 s
Instantaneous release	: li: 10 In

Product rating - 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 In: 120 s - 900 s
Instantaneous release	: li: 10 In

Product rating - 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

Additional information:

Nomenclature breakdown:

SGM6sm-160H

a b c d

a = Model name: SGM6

b = Type of release: 'sm' means thermo-magnetic adjustable, 's' means thermo adjustable, magnetic fixed and 'blank' means thermo-magnetic fixed

c = Frame size: 160

d = short-circuit capacity: 'M', 'H', 'L' or 'C'