

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 : Air Circuit-Breaker
Trade name(s) : MAXGE
Type(s)/model(s) : MGW6-2000

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, EN 60947-5-1:2017, IEC 60947-2:2016, IEC 60947-2:2016/AMD1:2019 and IEC 60947-5-1:2016
- 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 29 December 2023 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 33-131869 REV.1

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



K. Lin
Certification Manager

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SPECIFICATION OF THE CERTIFIED PRODUCT
Product data

Product	: Air Circuit-Breaker
Trade name(s)	: MAXGE
Type(s)/model(s)	: MGW6-2000
Number of poles	: 3P or 4P (N pole with overcurrent protection)
Rated operational voltage (U _e)	: 220 / 230 / 240 / 380 / 400 / 415 / 440 Vac
Rated insulation voltage (U _i)	: 1000 V for main circuit 690 V for control circuit 690 V for auxiliary circuit
Rated impulse withstand voltage (U _{imp})	: 12 kV for main circuit 8 kV for control circuit 2,5 kV for auxiliary circuit
Rated frequency	: 50 / 60 Hz
Rated current (I _n)	: 630, 800, 1000, 1250, 1600, 2000 A
Conventional thermal current (I _{th})	: Equal to I _n
Current rating for four-pole circuit-breakers	: Equal to I _n
Rated service short-circuit breaking capacity (I _{cs})	: 65 kA
Rated ultimate short-circuit breaking capacity (I _{cu})	: 80 kA / 65 kA
Rated short-time withstand current (I _{cw})	: 65 kA - 1 s
Suitable for isolation	: Suitable
Selectivity category	: B
Safety distance (screen-circuit breaker)	: All sides: 0 mm
Reference temperature	: Independent
Ambient temperature	: - 5 °C to 40 °C
Method of mounting	: Withdrawable or fixed
EMC environment	: A and B
Rated tightening torque for terminals	: M12 / 50 Nm
Line/load terminal Connection	: Immaterial Minimum cross-sectional area of conductor: Prepared copper conductor, 2 x 185 mm ² or (40 x 5) mm ² x 2 copper busbars Maximum cross-sectional area of conductor: Copper busbar, (100 x 5) mm ² x 3
Inverse time delay release	: I _r : (0,4 - 1,0) x I _n , OFF, step 1 A
Time setting of the inverse time delay release	: t _r : 15 s - 480 s (15 s, 30 s, 60 s, 120 s, 240 s, 480 s, OFF), with tolerance of ± 10% (at 1,5 I _r) tripping time at 2 I _r : 7,60 s - 9,28 s (t _r = 15 s) 243 s - 297 s (t _r = 480 s)
Short time delay release	: I _{sd} : (1,5 - 10) x I _r , OFF, step 1 A
Time setting of the short time delay release	: t _{sd} : I ² t off: 0,1 s - 0,4 s, step 0,1 s 0,1 s, with tolerance of 60 ms - 140 ms 0,2 s, with tolerance of 160 ms - 240 ms 0,3 s, with tolerance of 260 ms - 340 ms 0,4 s, with tolerance of 360 ms - 440 ms non-tripping duration stated by the manufacturer: 0,1 s: 60 ms 0,2 s: 160 ms 0,3 s: 260 ms 0,4 s: 360 ms
Instantaneous release	: I _i : (2 - 10) x I _n , OFF, step 1 A

Making current release (MCR)	: 20 kA
Ground fault release	: I _g : (0,2 - 1) x I _n , OFF, step 1 A, t _g : I ² t off: 0,1 s - 0,4 s, step 0,1 s 0,1 s, with tolerance of 60 ms - 140 ms 0,2 s, with tolerance of 160 ms - 240 ms 0,3 s, with tolerance of 260 ms - 340 ms 0,4 s, with tolerance of 360 ms - 440 ms
Shunt release	: 220 - 240 Vac, 380 - 440 Vac, 50 / 60 Hz 110 Vdc, 200 - 250 Vdc
Under-voltage release	: 220 - 250 Vac, 380 - 440 Vac, 50 / 60 Hz
Closing coil	: 220 - 240 Vac, 380 - 440 Vac, 50 / 60 Hz 110 Vdc, 200 - 250 Vdc
Stored energy motor	: 220 - 240 Vac, 380 - 440 Vac, 50 / 60 Hz 110 Vdc, 200 - 250 Vdc
External supply for overcurrent release	: 220 - 240 Vac, 380 - 440 Vac, 50 / 60 Hz 110 Vdc, 200 - 250 Vdc
Auxiliary circuits	: F10-6 5NO5NC AC-15: 3 A at 415 Vac, 5 A at 250 Vac, 50 / 60 Hz DC-13: 0,27 A at 250 Vdc, 0,55 A at 125 Vdc U _i : 690 V, U _{imp} : 2,5 kV, I _{th} : 6 A Rated conditional short-circuit current: 1 kA Fuse: Yinrong NT00-6A, 6 A, 120 kA / 500 Vac

TESTS

Test requirements

EN 60947-2:2017
EN 60947-2:2017/A1:2020
EN 60947-5-1:2017
IEC 60947-2:2016
IEC 60947-2:2016/AMD1:2019
IEC 60947-5-1:2016

Test result

The test results are laid down in DEKRA test file 332810900.

Additional information

Nomenclature breakdown:

MG W6 - 2000 / 4P 2000A D

a b c d e f

a = Manufacturer: 'MG' means MAXGE ELECTRIC TECHNOLOGY CO.,LTD

b = Product code: W6

c = Frame size: 2000

d = Pole number: '4P' or '3P'

e = Rated current: 630A, 800A, 1000A, 1250A, 1600A, 2000A

f = Installation method: 'D' means Drawer, 'F' means Fixation.

The referred test reports are 3328109.50 and 3328120.50.

This certificate replaces certificate No. 33-131869 which we hereby declare invalid.