

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 6059401

DEKRA hereby grants the right to use the DEKRA Mark.

The DEKRA Mark may be applied to the product as specified in this certificate for the duration and under the conditions of the DEKRA Mark certification agreement.

This certificate is issued on 29 December 2023 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 33-134605

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



K. Lin
Certification Manager

© Integral publication of this certificate is allowed

ACCREDITED BY THE
DUTCH ACCREDITATION
COUNCIL



33-134605

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 (Ue)	: 220 / 230 / 240 / 380 / 400 / 415 / 440 Vac
Rated insulation voltage (Ui)	: 1000 V for main circuit 690 V for control circuit 690 V for auxiliary circuit
Rated impulse withstand voltage (Uimp)	: 12 kV for main circuit 8 kV for control circuit 2,5 kV for auxiliary circuit
Rated frequency	: 50 / 60 Hz
Rated current (In)	: 630, 800, 1000, 1250, 1600, 2000 A
Conventional thermal current (Ith)	: Equal to In
Current rating for four-pole circuit-breakers	: Equal to In
Rated service short-circuit breaking capacity (Ics)	: 65 kA
Rated ultimate short-circuit breaking capacity (Icu)	: 80 kA / 65 kA
Rated short-time withstand current (Icw)	: 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	: Immaterial
Connection	: 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	: Ir: (0,4 - 1,0) x In, OFF, step 1 A
Time setting of the inverse time delay release	: tr: 15 s - 480 s (15 s, 30 s, 60 s, 120 s, 240 s, 480 s, OFF), with tolerance of ± 10% (at 1,5 Ir) tripping time at 2 Ir: 7,60 s - 9,28 s (tr = 15 s) 243 s - 297 s (tr = 480 s)
Short time delay release	: Isd: (1,5 - 10) x Ir, OFF, step 1 A
Time setting of the short time delay release	: tsd: 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	: li: (2 - 10) x In, OFF, step 1 A

Making current release (MCR)	: 20 kA
Ground fault release	: Ig: (0,2 - 1) x In, OFF, step 1 A, tg: 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 Ui: 690 V, Uimp: 2,5 kV, Ith: 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.

Conclusion

The examination proved that all requirements were met.