

CERTIFICATE

Issued to:

Applicant:

Wenzhou CHT Electric Co.,Ltd.
No.808, Ninth Binhai Road, Wenzhou Economic &
Technological Development Zone
325025 Wenzhou Zhejiang, China

Licensee:

Wenzhou CHT Electric Co.,Ltd.
No.808, Ninth Binhai Road, Wenzhou Economic &
Technological Development Zone
325025 Wenzhou Zhejiang, China

Product : Moulded-Case Circuit-Breaker
Trade name(s) : CHT
Type(s)/model(s) : DGM2E-100 and DGM2E-50

The product and any acceptable variation thereto is 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 the standard(s) 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 6059280

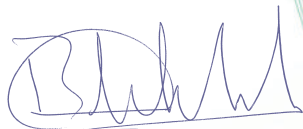
DEKRA hereby grants the right to use the KEMA-KEUR certification mark.

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 October 2022 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 33-125406

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



D Huang
Certification Manager

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DUTCH ACCREDITATION
COUNCIL



SPECIFICATION OF THE CERTIFIED PRODUCT**Product data**

Product	: Moulded-Case Circuit-Breaker
Trade name(s)	: CHT
Type(s)/model(s)	: DGM2E-100 and DGM2E-50
Number of poles	: 3P and 4P (N pole with overcurrent protection)
Rated operational voltage (U _e)	: 415 Vac
Rated insulation voltage (U _i)	: 800 V
Rated impulse withstand voltage (U _{imp})	: 8 kV
Rated frequency	: 50 / 60 Hz
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})	: 50 kA
Rated ultimate short-circuit breaking capacity (I _{cu})	: 50 kA
Rated short-time withstand current (I _{cw})	: 10 I _n - 1 s
Individual pole short-circuit (IIT)	: 12 I _n
Suitable for isolation	: Suitable
Selectivity category	: A
Safety distance (screen-circuit breaker)	: Front / Back: 0 mm, Left / Right: 0 mm, Up / Down: 50 mm
Reference temperature	: Independent
Method of mounting	: Plug-in or fixed
EMC environment	: A and B
Tightening torque for terminals	: M6 / 3 Nm for plug-in M8 / 6 Nm for fixed
Line/load terminal	: Marked
Connection	: Copper conductor with cable lug
Time setting of the inverse time delay release	: tr: 16, 32, 64, 128, 256 s at 1,5 I _r + OFF, with tolerance of ± 15% tripping time at 2 I _r : 9 s ± 15% (tr = 16 s) 144 s ± 15% (tr = 256 s)
Short time delay release	: I _{sd} : (1,5, 2, 3, 4, 5, 6, 8, 10) x I _r + OFF
Time setting of the short time delay release	: I _{tsd} : 0,05 ± 0,02 s, 0,1 ± 0,03 s, 0,2 ± 0,04 s, 0,3 ± 0,06 s at I _r ² off + OFF non-tripping duration: Set at 0,05 s: 0,03 s, Set at 0,3 s: 0,24 s
Instantaneous release	: I _i : (2, 3, 4, 5, 6, 8, 10, 12) x I _r + OFF
Ground fault release	: (0,2, 0,3, 0,4, 0,5, 0,6, 0,7, 0,8, 1,0) x I _n + OFF, with tolerance of ± 10% (only for N of 4P) tg: fixed at 0,4 s, with tolerance of ± 15%

Product data – type DGM2E-100

Rated current (I _n)	: 100 A
Inverse time delay release	: I _r : 40, 50, 63, 70, 80, 85, 90, 95, 100 A

Product data – type DGM2E-50

Rated current (I _n)	: 50 A
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Inverse time delay release : Ir: 20, 25, 30, 35, 40, 45, 50 A

TESTS

Test requirements

EN 60947-2:2017

EN 60947-2:2017/A1:2020

IEC 60947-2:2016

IEC 60947-2:2016/A1:2019

Test result

The test results are laid down in DEKRA test file 331943700.

Additional information

Nomenclature breakdown:

DGM2E-100/4300

a b c

a = Model name: DGM2E

b = Frame size: 100 or 50

c = Number poles: 4 means 4 poles, 3 means 3 poles

The referred test report is 3319437.50.

Conclusion

The examination proved that all requirements were met.

Factory location

Wenzhou CHT Electric Co.,Ltd.

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