

# 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-1600

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

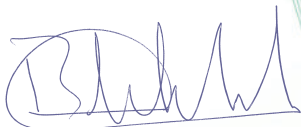
DEKRA hereby grants the right to use the KEMA-KEUR certification mark.

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

Certificate number: 33-125047

DEKRA Certification B.V.



B.T.M. Holtus  
Managing Director



R Zhou  
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-1600
Number of poles	: 3P and 4P (N pole with overcurrent protection)
Rated operational voltage (U <sub>e</sub> )	: 415 Vac
Rated insulation voltage (U <sub>i</sub> )	: 1000 V
Rated impulse withstand voltage (U <sub>imp</sub> )	: 12 kV
Rated frequency	: 50 / 60 Hz
Rated current (I <sub>n</sub> )	: 800 A, 1000 A, 1250 A, 1600 A
Conventional thermal current (I <sub>th</sub> )	: Equal to I <sub>n</sub>
Current rating for four-pole circuit-breakers	: Equal to I <sub>n</sub>
Rated service short-circuit breaking capacity (I <sub>cs</sub> )	: 50 kA
Rated ultimate short-circuit breaking capacity (I <sub>cu</sub> )	: 50 kA
Rated short-time withstand current (I <sub>cw</sub> )	: 20 kA - 1 s
Individual pole short-circuit (IIT)	: 12 I <sub>n</sub>
Suitable for isolation	: Suitable
Selectivity category	: B
Safety distance (screen-circuit breaker)	: Front / Back: 0 mm, Left / Right: 50 mm, Up / Down: 100/0 mm
Reference temperature	: Independent
Method of mounting	: Fixed
EMC environment	: A and B
Tightening torque for terminals	: M10 / 20 Nm
Line/load terminal	: Marked
Connection	: Copper conductor with cable lug for 800 A Copper conductor with copper busbars for 800 A - 1600 A
Inverse time delay release	: I <sub>r</sub> : (0,4, 0,5, 0,6, 0,7, 0,8, 0,9) x I <sub>n</sub> + (0, 0,02, 0,03, 0,04, 0,05, 0,06, 0,07, 0,08, 0,09, 0,1) x I <sub>n</sub>
Time setting of the inverse time delay release	: t <sub>r</sub> : 15, 30, 60, 120, 240, 480 s at 1,5 I <sub>r</sub> + OFF, with tolerance of ± 10% tripping time at 2 I <sub>r</sub> : 8,5 s ± 10% (t <sub>r</sub> = 15 s) 270 s ± 10% (t <sub>r</sub> = 480 s)
Short time delay release	: I <sub>sd</sub> : (2, 3, 4, 5, 6, 7, 8, 9, 10) x I <sub>r</sub> + OFF
Time setting of the short time delay release	: t <sub>sd</sub> : (0,1, 0,2, 0,3, 0,4 s) ± 0,04 s at I <sup>2</sup> t off non-tripping duration: Set at 0,1 s: 0,06 s, Set at 0,4 s: 0,36 s
Instantaneous release	: I <sub>i</sub> : (3, 4, 5, 6, 7, 8, 9, 10, 12) x I <sub>r</sub> + OFF
Ground fault release	: I <sub>g</sub> : (0,2, 0,3, 0,4, 0,5, 0,6, 0,7, 0,8, 0,9, 1) x I <sub>n</sub> + OFF, with tolerance of ± 15% t <sub>g</sub> : (0,1, 0,2, 0,3, 0,4 s) ± 0,04 s

**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 331944300.

**Additional information**

Nomenclature breakdown:

DGM2E-1600/4300

a        b    c

a = Model name: DGM2E

b = Frame size: 1600

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

The referred test report is 3319443.50.

**Conclusion**

The examination proved that all requirements were met.

**Factory location**

Wenzhou CHT Electric Co.,Ltd.

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