

# 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 : Air Circuit-Breaker  
Trade name(s) : CHT  
Type(s)/model(s) : DGW3-2500

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, IEC 60947-2:2016 and IEC 60947-2:2016/AMD1:2019
- an inspection of the factory location according to CENELEC Operational Document CIG 021
- a DEKRA certification agreement with the number 6059280

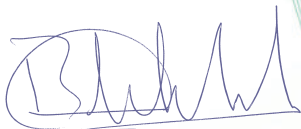
DEKRA hereby grants the right to use the KEMA-KEUR certification mark.

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 18 August 2023 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 33-130074

DEKRA Certification B.V.



B.T.M. Holtus  
Managing Director



F.S. Strikwerda  
Certification Manager

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DUTCH ACCREDITATION  
COUNCIL



**SPECIFICATION OF THE CERTIFIED PRODUCT**
**Product data**

Product	: Air Circuit-Breaker
Trade name(s)	: CHT
Type(s)/model(s)	: DGW3-2500
Number of poles	: 3P or 4P (N pole with overcurrent protection)
Rated operational voltage (U <sub>e</sub> )	: 400 / 690 Vac
Rated insulation voltage (U <sub>i</sub> )	: 1000 V for main circuit 500 V for control circuit
Rated impulse withstand voltage (U <sub>imp</sub> )	: 12 kV for main circuit 4 kV for control circuit
Rated frequency	: 50/60 Hz
Rated current (I <sub>n</sub> )	: 630 A, 800 A, 1000 A, 1250 A, 1600 A, 2000 A, 2500 A
Conventional thermal current (I <sub>th</sub> )	: Equal to I <sub>n</sub>
Current rating for four-pole circuit-breakers	: 50% I <sub>n</sub> or 100% I <sub>n</sub>
Rated service short-circuit breaking capacity (I <sub>cs</sub> )	: 100% I <sub>cu</sub>
Rated ultimate short-circuit breaking capacity (I <sub>cu</sub> )	: 65 kA at 400 Vac, 50 kA at 690 Vac
Rated short-time withstand current (I <sub>cw</sub> )	: 65 kA / 1 s at 400 Vac, 50 kA / 1 s at 690 Vac
Individual pole short-circuit (I <sub>tr</sub> )	: 18 I <sub>n</sub> at 400 Vac
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
Tightening torque for terminals	: M12 / 95 Nm
Line/load terminal	: Immaterial
Connection	: Minimum cross-sectional area of conductor: Prepared copper conductor, 185 mm <sup>2</sup> x 2 Maximum cross-sectional area of conductor: Copper busbar, (100 x 5) mm <sup>2</sup> x 4
Inverse time delay release	: I <sub>r</sub> : (0,4 - 1,0) x I <sub>n</sub> + OFF, step 1 A
Time setting of the inverse time delay release	: t <sub>r</sub> : 15 s - 480 s, with tolerance of ± 10% (at 1,5 I <sub>r</sub> ) tripping time at 2 I <sub>r</sub> : 7,60 s - 9,28 s (t <sub>r</sub> = 15 s) 243 s - 297 s (t <sub>r</sub> = 480 s)
Short time delay release	: I <sub>sd</sub> : (1,5 - 15) x I <sub>r</sub> , OFF, step 1 A
Time setting of the short time delay release	: t <sub>sd</sub> : I <sup>2</sup> t off, 0,1 s - 1 s, step 0,1 s, with tolerance of ± 15% non-tripping duration: t <sub>sd</sub> of - 15%
Instantaneous release	: I <sub>i</sub> : (2 - 15) x I <sub>n</sub> , OFF, step 1 A
Ground fault release	: I <sub>g</sub> : (0,2 - 1) x I <sub>n</sub> , OFF, step 1 A, t <sub>g</sub> : I <sup>2</sup> t off, 0,1 s - 1,0 s, step 0,1 s, with tolerance of ± 15%
Shunt release	: AC 220 / 230 V, AC 380 / 480 V, 50/60 Hz DC 110 V, DC 220 V
Under-voltage release	: AC 220 / 230 V, AC 380 / 480 V, 50/60 Hz
Closing release	: AC 220 / 230 V, AC 380 / 480 V, 50/60 Hz DC 110 V, DC 220 V
Stored energy motor	: AC 220 / 230 V, AC 380 / 480 V, 50/60 Hz DC 110 V, DC 220 V

**TESTS****Test requirements**

EN 60947-2:2017

EN 60947-2:2017/A1:2020

IEC 60947-2:2016

IEC 60947-2:2016/AMD1:2019

**Test result**

The test results are laid down in DEKRA test file 331945500.

**Additional information**

Nomenclature breakdown:

DGW3-2500/4

a      b      c

a = Model name: DGW3

b = Frame size: 2500

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

The referred test report is 3319455.50.

**Conclusion**

The examination proved that all requirements were met.

**Factory location**

Wenzhou CHT Electric Co.,Ltd.

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