

## IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

## CB TEST CERTIFICATE

Product

Moulded-Case Circuit-Breaker

Name and address of the applicant

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

Name and address of the manufacturer

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

Name and address of the factory

Wenzhou CHT Electric Co.,Ltd.  
No.808, Ninth Binhai Road, Wenzhou Economic & Technological Development  
Zone 325025 Wenzhou Zhejiang,  
China*Note: When more than one factory, please report on page 2* Additional information on page 2

Ratings and principal characteristics

Ue: 415 Vac, 50 / 60 Hz  
In: 50 A, 100 A, Ui: 800 V, Uimp: 8 kV  
3P and 4P (N pole with overcurrent protection)  
Icu: 50 kA  
Ics: 50 kA  
Icw: 10 In - 1 s, selectivity category A  
See annex for further ratings

Trademark / Brand (if any)

CHT

Customer's Testing Facility (CTF) Stage used

Model / Type Ref.

DGM2E-100 and DGM2E-50

Additional information (if necessary may also be reported on page 2)

 Additional information on page 2

A sample of the product was tested and found to be in conformity with

IEC 60947-2:2016, IEC 60947-2:2016/AMD1:2019

As shown in the Test Report Ref. No. which forms part of this Certificate

3319437.50

This CB Test Certificate is issued by the National Certification Body

DEKRA Certification B.V.  
Meander 1051  
Arnhem, 6825 MJ  
Netherlands

Date: 2022-10-05

Signature: H.L. Schendstok



**Ratings:**

Number of poles	: 3P and 4P (N pole with overcurrent protection)
Rated operational voltage (Ue)	: 415 Vac
Rated insulation voltage (Ui)	: 800 V
Rated impulse withstand voltage (Uimp)	: 8 kV
Rated frequency	: 50 / 60 Hz
Conventional thermal current (Ith)	: Equal to In
Current rating for four-pole circuit-breakers	: Equal to In
Rated service short-circuit breaking capacity (Ics)	: 50 kA
Rated ultimate short-circuit breaking capacity (Icu)	: 50 kA
Rated short-time withstand current (Icw)	: 10 In - 1 s
Individual pole short-circuit (IIT)	: 12 In
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 Ir + OFF, with tolerance of $\pm 15\%$ tripping time at 2 Ir: 9 s $\pm 15\%$ (tr = 16 s) 144 s $\pm 15\%$ (tr = 256 s)
Short time delay release	: Isd: (1,5, 2, 3, 4, 5, 6, 8, 10) x Ir + OFF
Time setting of the short time delay release	: tsd: 0,05 $\pm$ 0,02 s, 0,1 $\pm$ 0,03 s, 0,2 $\pm$ 0,04 s, 0,3 $\pm$ 0,06 s at I <sup>2</sup> t off + OFF non-tripping duration: Set at 0,05 s: 0,03 s, Set at 0,3 s: 0,24 s
Instantaneous release	: Ii: (2, 3, 4, 5, 6, 8, 10, 12) x Ir + OFF
Ground fault release	: (0,2, 0,3, 0,4, 0,5, 0,6, 0,7, 0,8, 1,0) x In + OFF, with tolerance of $\pm 10\%$ (only for N of 4P) tg: fixed at 0,4 s, with tolerance of $\pm 15\%$

**Product rating - DGM2E-100**

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

**Product rating - DGM2E-50**

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

**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