

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

CB TEST CERTIFICATE

Product

Air 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: 400 / 690 Vac, Ui: 1000 V, Uimp: 12 kV,
3P or 4P (N pole with overcurrent protection)
In: 2000 A, 2500 A, 2900 A, 3200 A, 3600 A, 3900 A, 4000 A
Ics = Icu: 80 kA at 400 Vac, 50 kA at 690 Vac
Icw: 80 kA / 1 s at 400 Vac, 50 kA / 1 s at 690 Vac
See annex for further ratings

Trademark / Brand (if any)

Customer's Testing Facility (CTF) Stage used

Model / Type Ref.

DGW3-4000

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

3319457.50

This CB Test Certificate is issued by the National Certification Body

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



Date: 2023-09-11

Signature: F.S.Strikwerda

Ratings:

Number of poles	: 3P or 4P (N pole with overcurrent protection)
Rated operational voltage (Ue)	: 400 / 690 Vac
Rated insulation voltage (Ui)	: 1000 V for main circuit 690 V for control circuit
Rated impulse withstand voltage (Uimp)	: 12 kV for main circuit 6 kV for control circuit
Rated frequency	: 50/60 Hz
Rated current (In)	: 2000 A, 2500 A, 2900 A, 3200 A, 3600 A, 3900 A, 4000 A
Conventional thermal current (Ith)	: Equal to In
Current rating for four-pole circuit-breakers	: 50% In or 100% In
Rated service short-circuit breaking capacity (Ics)	: 100% Icu
Rated ultimate short-circuit breaking capacity (Icu)	: 80 kA at 400 Vac, 50 kA at 690 Vac
Rated short-time withstand current (Icw)	: 80 kA / 1 s at 400 Vac, 50 kA / 1 s at 690 Vac
Individual pole short-circuit (IIT)	: 50 kA 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: Copper busbar, (100 x 5) mm ² x 3 Maximum cross-sectional area of conductor: Copper busbar, (100 x 10) mm ² x 5
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, 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 - 15) x Ir, OFF, step 1 A
Time setting of the short time delay release	: tsd: I ² t off, 0,1 s - 1 s, step 0,1 s, with tolerance of ± 15% non-tripping duration: tsd of - 15%
Instantaneous release	: Ii: (2 - 15) x In, OFF, step 1 A
Ground fault release	: Ig: (0,2 - 1) x In, OFF, step 1 A, tg: I ² 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

Additional information

Nomenclature breakdown:

DGW3-4000/4

a b c

a = Model name: DGW3

b = Frame size: 4000

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