

CERTIFICATE

Issued to:
Applicant:
Zhejiang Chint Electrics Co., Ltd.
No. 1, Chint Road, Chint Industrial Zone, North
Baixiang, Yueqing,
325603 Zhejiang, China

Licensee:
Zhejiang Chint Electrics Co., Ltd.
No. 1, Chint Road, Chint Industrial Zone, North
Baixiang, Yueqing,
325603 Zhejiang, China

Product : Air Circuit-Breaker
Trade name(s) : CHINT
Type(s)/model(s) : NA8-1600H

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 EN 60947-2:2017, EN 60947-5-1:2004/A1:2009 and EN 60947-5-1:2004
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 2032236

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 of the KEMA-KEUR certification agreement and under the conditions of the KEMA-KEUR certification agreement.

This certificate is issued on 21 September 2018 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 33-105382

DEKRA Certification B.V.



drs. G.J. Zoetbrood
Managing Director



Susan Lehner
Certification Manager

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SPECIFICATION OF THE CERTIFIED PRODUCT

Product data

Product	: Air Circuit-Breaker
Trade name(s)	: CHINT
Type(s)/model(s)	: NA8-1600H
Number of poles	: 3P or 4P (N pole with protection)
Protected poles	: 3 or 4
Rated operational voltage (Ue)	: 380 / 400 / 415 Vac, 690 Vac
Rated insulation voltage (Ui)	: 1000 V for main circuit 500 V for control circuit and auxiliary circuit
Rated impulse withstand voltage (Uimp)	: 12 kV for main circuit 6 kV for control circuit and auxiliary circuit
Rated frequency	: 50 / 60 Hz
Rated current (In)	: 1600 A, 1250 A, 1000 A, 800 A, 630 A, 400 A
Conventional thermal current (Ith)	: Equal to In
Current rating for four-pole circuit-breakers	: Equal to In
Rated service short-circuit breaking capacity (Ics)	: 55 kA at 380 / 400 / 415 Vac, 36 kA at 690 Vac
Rated ultimate short-circuit breaking capacity (Icu)	: 65 kA at 380 / 400 / 415 Vac, 36 kA at 690 Vac
Rated short-time withstand current (Icw)	: 42 kA / 1 s at 380 / 400 / 415 Vac, 36 kA / 1 s at 690 Vac 30 kA / 3 s at 380 / 400 / 415 / 690 Vac
Individual pole short-circuit (IIT)	: Yes, 12 In at 380 / 400 / 415 Vac
Suitable for isolation	: Suitable
Selectivity category	: B
Safety distance (screen-circuit breaker)	: Left / Right: 0 mm Up / Down: 0 mm Front / Back: 0 mm
Reference temperature	: Independent
Method of mounting	: Fixed or Withdrawable
EMC environment	: A
Tightening torque for terminals	: 45 Nm for M10
Line/load terminal	: Immaterial
Connection	: Minimum cross-sectional area of conductor: 240 mm ² , prepared copper conductor with cable lug Maximum cross-sectional area of conductor: (100 x 5) mm ² x 2, copper busbar
Electronic trip unit type(s)	: standard type and advanced type
Inverse time delay release	: Ir (inverse time delay tripping setting): (0,4 / 0,5 / 0,6 / 0,7 / 0,8 / 0,9 / 1) x In for trip unit of standard type (0,4 - 1) x In, in steps of 1 A for trip unit of advanced type
Time setting of the inverse time delay release	: tr (inverse time delay tripping setting): 1 s / 2 s / 4 s / 8 s / 12 s / 16 s / 20 s / 30 s with tolerance of $\pm 10\%$ (at 6 Ir) 2Ir tripping time declared by the manufacturer: when tr = 1 s: 8,1 s - 9,9 s when tr = 30 s: 243 s - 297 s
Short time delay release	: Isd (short time delay tripping setting): (1,5 / 2 / 3 / 4 / 6 / 8 / 10) x Ir for trip unit of standard type (1,5 - 10) x Ir, in steps of 1 A for trip unit of advanced type

Time setting of the short time delay release	: tsd (short time delay tripping setting): I _{2t} off: 0,1 s / 0,2 s / 0,3 s / 0,4 s 0,1 s, with tolerance of 60 ms - 140 ms 0,2 s, with tolerance of 160 ms - 240 ms 0,3 s, with tolerance of 255 ms - 345 ms 0,4 s, with tolerance of 340 ms - 460 ms
Instantaneous release	: li (instantaneous tripping setting): (2 / 4 / 6 / 8 / 10 / 12 / 15) x I _n for trip unit of standard type (2 - 15) x I _n , in steps of 1 A for trip unit of advanced type
Making current release (MCR)	: 16 kA
Ground fault release	: I _g (ground fault release tripping setting): Max 1200 A (0,2 / 0,3 / 0,4 / 0,5 / 0,6 / 0,8 / 1) x I _n for trip unit of standard type (0,2 - 1) x I _n , in steps of 1 A for trip unit of advanced type
Time setting of the ground fault release	: t _g (ground fault release tripping setting): I _{2t} off: 0,1 s / 0,2 s / 0,3 s / 0,4 s 0,1 s, with tolerance of 60 ms - 140 ms 0,2 s, with tolerance of 160 ms - 240 ms 0,3 s, with tolerance of 255 ms - 345 ms 0,4 s, with tolerance of 340 ms - 460 ms
Shunt release	: 48 Vac / 48 - 60 Vdc, 100 - 130 Vac / Vdc, 200 - 250 Vac / Vdc, 380 - 440 Vac
Under-voltage release	: 48 Vac / 48 - 60 Vdc, 100 - 130 Vac / Vdc, 200 - 250 Vac / Vdc, 380 - 440 Vac
Closing coil	: 48 Vac / 48 - 60 Vdc, 100 - 130 Vac / Vdc, 200 - 250 Vac / Vdc, 380 - 440 Vac
Stored energy motor	: 220 / 230 Vac, 380 / 400 / 415 Vac, 110 / 220 Vdc
Power module for trip unit	: 110 Vdc, 220 Vdc
Auxiliary circuits	: 6NO6NC, 4NO4NC AC-15: 2 A at 415 / 240 Vac, DC-13: 0,25 A at 220 / 110 Vdc U _i : 500 V , U _{imp} : 6 kV, I _{th} : 6 A rated conditional short-circuit current: 1 kA SCPD: RL6-25/6, 6 A

TESTS

Test requirements

EN 60947-2:2017

EN 60947-5-1:2004/A1:2009

EN 60947-5-1:2004

Test result

The test results are laid down in DEKRA test file 331266800.

Additional information

The referred test reports are 3312668.50 and 3312668.51.

The product also complies with IEC 60947-2:2016; IEC 60947-5-1:2016.

Conclusion

The examination proved that all requirements were met.

Factory location

NOARK Electrics (Shanghai) Co.,Ltd.
No. 3857, Sixian Road, Songjiang District
201614 Shanghai, China