

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) : NA1-1000X

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) IEC 60947-2:2016, IEC 60947-2:2016/A1:2019, EN 60947-2:2017, EN 60947-2:2017/A1:2020, IEC 60947-5-1:2016 and EN 60947-5-1:2017
- an inspection of the factory location according to CENELEC Operational Document CIG 021
- a DEKRA 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 and under the conditions of the KEMA-KEUR certification agreement.

This certificate is issued on 17 January 2023 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 33-126782

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



H.R.M. Barends
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)	: NA1-1000X
Number of poles	: 3 P and 4P (N pole without overcurrent protection)
Rated operational voltage (Ue)	: 400 Vac / 690 Vac
Rated insulation voltage (Ui)	: 1000 V for main circuit 400 V for control circuits and auxiliary circuits
Rated impulse withstand voltage (Uimp)	: 12 kV for main circuit 4 kV for control circuits and auxiliary circuits
Rated current (In)	: 200 A, 400 A, 630 A, 800 A, 1000 A
Rated operational current (Ie)	: (0,4 - 1,0) x In
Conventional thermal current (Ith)	: Equal to In
Current rating for four-pole circuit-breakers	: Equal to 50% In
Rated frequency	: 50 / 60 Hz
Rated ultimate short-circuit breaking capacity (Icu)	: 42 kA at 400 Vac, 25 kA at 690 Vac
Rated service short-circuit breaking capacity (Ics)	: 30 kA at 400 Vac, 20 kA at 690 Vac
Rated short-time withstand current (Icw)	: 30 kA / 1s at 400 Vac, 20 kA / 1s at 690 Vac
Suitable for isolation	: Suitable
Selectivity category	: B
Safety distance (screen-circuit breaker)	: All sides: 0 mm
Method of mounting	: Fixed or Withdrawable
EMC environment	: A
Reference temperature	: Independent
Shunt release	: AC: 400 V, 50 / 60 Hz
Under-voltage release	: AC: 400 V, 50 / 60 Hz
Closing coil	: AC: 400 V, 50 / 60 Hz
Stored energy motor	: AC: 400 V, 50 / 60 Hz
Auxiliary circuits	: Utilization category: AC-15: 1,3 A at 230 Vac, 0,25 at 400 Vac, 50 / 60 Hz DC-13: 0,55 A at 110 Vdc, 0,27 A at 220 Vdc number and kind of contact elements: 4 NO and 4 NC rated conditional short-circuit current: 1 kA conventional free air thermal current (Ith): 6 A kind of protective device: fuse, RL6-25/6, gG, 6 A, 500 V, 7,5 kA
Line/load terminal	: Immaterial
Connection	: Prepared copper conductor with cable lug for 200 A to 800 A Copper busbar for 1000 A
Rated tightening torque for terminals	: 14 Nm
Type of electronic release	: NST1-D
Inverse time delay release	: Ir (inverse time delay tripping setting): (0,4 - 1,0) x In, in step of 1 A
Time setting of the inverse time delay release	: tr (inverse time delay tripping setting): 15 s, 30 s, 60 s, 120 s, 240 s, 480 s with tolerance of $\pm 10\%$ (at 1,5 Ir) Trip time at 2 Ir: Set at 15 s: 8,4 s, with tolerance of $\pm 10\%$, Set at 480 s: 270 s, with tolerance of $\pm 10\%$

Short time delay release	: Isd (short time delay tripping setting): (1,5 - 15) x Ir, in step of 1 A, if Isd < 10 kA, in step of 0,01 kA, if Isd ≥ 10 kA
Time setting	: tsd (short time delay tripping setting): 0,1 s, 0,2 s, with tolerance of ± 40 ms, 0,3 s, 0,4 s, with tolerance of ± 15% Non-tripping duration: Set at 0,1 s: 0,05 s, Set at 0,4 s: 0,33 s
Instantaneous release	: li (instantaneous tripping setting): (1,5 - 20) x In, in step of 1 A, if li < 10 kA, in step of 0,01 kA, if li ≥ 10 kA
Ground fault release	: Ig: (0,2 - 0,8) x In, in step of 1 A (with minimum current setting 100 A, if In = 200 A, 400 A)
Time setting of ground fault release	: tg: 0,1 s, 0,2 s, with tolerance of ± 40 ms 0,3 s, 0,4 s, with tolerance of ± 15%
Making current release	: 6,3 kA (200 A - 400 A), 12,6 kA (400 A - 1000 A)

TESTS

Test requirements

IEC 60947-2:2016
IEC 60947-2:2016/A1:2019
EN 60947-2:2017
EN 60947-2:2017/A1:2020
IEC 60947-5-1:2016
EN 60947-5-1:2017

Test result

The test results are laid down in DEKRA test file 332631600.

Additional information

Nomenclature breakdown:

NA1-1000X/4

a b c d

a = Model name: NA1

b = Frame size: 1000

c = Electronic release: X means NST1-D

d = pole numbers: '3' means 3P ACBs, '4' means 4P ACBs

The referred test reports are 3326316.50, 3326316.51, 3311812.50, 3307984.50, 3300977.50, W0808013.50 and W0808013.52.

This certificate replaces certificate No. 33-101068 which we hereby declare invalid.

Conclusion

The examination proved that all requirements were met.

Factory location

Zhejiang Chint Electrics Co., Ltd.

No. 1318, Binhai No. 2 Avenue, Economic and Technical Development Zone,
325025 Wenzhou Zhejiang, China