

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 : Moulded-case circuit-breaker
Trade name(s) : CHINT
Type(s)/model(s) : NM8N-400C, NM8N-400H, NM8N-400Q, NM8N-400R, NM8N-400S,
NM8N-630C, NM8N-630H, NM8N-630Q, NM8N-630R and NM8N-630S

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 and EN 60947-2:2017/A1:2020
- an inspection of the factory location according to CENELEC Operational Document CIG 021
- a DEKRA certification agreement with the number 2032236

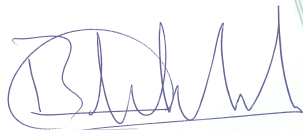
DEKRA hereby grants the right to use the KEMA-KEUR certification mark.

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: 33-126632

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



H.R.M. Barends
Certification Manager

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COUNCIL



SPECIFICATION OF THE CERTIFIED PRODUCT

Product data

Product	: Moulded-case circuit-breaker
Trade name(s)	: CHINT
Type(s)/model(s)	: NM8N-400C, NM8N-400H, NM8N-400Q, NM8N-400R, NM8N-400S, NM8N-630C, NM8N-630H, NM8N-630Q, NM8N-630R and NM8N-630S
Number of poles	: 3P and 4P
Protected poles	: 3 or 4
Rated operational voltage (Ue)	: 380 Vac / 400 Vac / 415 Vac, 440 Vac, 500 Vac, 660 Vac / 690 Vac
Rated insulation voltage (Ui)	: 1000 V
Rated impulse withstand voltage (Uimp)	: 12 kV
Rated frequency	: 50 / 60 Hz
Conventional thermal current (Ith)	: Equal to In
Suitable for isolation	: Suitable
Current rating for four-pole circuit-breakers	: 0,5 In, 1,0 In, OFF
Rated short-time withstand current (Icw)	: In ≤ 400 A: 5 kA - 1 s, In > 400 A, 8 kA - 1 s
Selectivity category	: B
Safety distance (screen-circuit breaker)	: Front / back: 0 mm Left / right: 0 mm Up / down: 0 mm
Method of mounting	: Fixed
EMC Environment	: A
Tightening torque for terminals	: 25,0 Nm for M10
Line/load terminal	: Immaterial
Ambient temperature	: 55 °C
Connection	: copper conductor with cable lug
Inverse time delay release	: Ir (inverse time delay tripping setting): (0,4 / 0,5 / 0,6 / 0,7 / 0,8 / 0,9 / 0,95 / 1) x In
Time setting of the inverse time delay release	: tr (inverse time delay tripping setting): 3 / 6 / 12 / 18 s, with tolerance of ± 10% (at 6 Ir) 2 Ir tripping time declared by the manufacturer: when tr = 3 s: 24,3 s - 29,7 s when tr = 18 s: 145,8 s - 178,2 s
Short time delay release	: Isd (short time delay current setting): (1,5 / 2,0 / 3,0 / 4,0 / 6,0 / 8,0 / 10) x Ir, OFF
Time setting of the short time delay release	: tsd (short time delay time setting): I²t 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 240 ms - 360 ms 0,4 s, with tolerance of 320 ms - 480 ms 0,1 s, with tolerance of 60 ms - 140 ms non-tripping duration stated by the manufacturer: 0,1 s: 60 ms 0,2 s: 160 ms 0,3 s: 240 ms 0,4 s: 320 ms
Instantaneous release	: li (instantaneous current setting): (2,0 / 3,0 / 4,0 / 6,0 / 8,0 / 10 / 12) x In, OFF

Product data – type NM8N-400C

Rated current (In)	: 250 A, 315 A, 350 A, 400 A
Individual pole short-circuit (I _{tr})	: 1,2 Isd at 690 Vac
Rated ultimate short-circuit breaking capacity (I _{cu})	: 36 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac, 25 kA at 500 Vac, 10 kA at 660 Vac / 690 Vac
Rated service short-circuit breaking capacity (I _{cs})	: 36 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac, 25 kA at 500 Vac, 10 kA at 660 Vac / 690 Vac

Product data – type NM8N-400H

Rated current (In)	: 250 A, 315 A, 350 A, 400 A
Individual pole short-circuit (I _{tr})	: 1,2 Isd at 690 Vac
Rated ultimate short-circuit breaking capacity (I _{cu})	: 100 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac, 50 kA at 500 Vac, 15 kA at 660 Vac / 690 Vac
Rated service short-circuit breaking capacity (I _{cs})	: 100 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac, 50 kA at 500 Vac, 15 kA at 660 Vac / 690 Vac

Product data – type NM8N-400Q

Rated current (In)	: 250 A, 315 A, 350 A, 400 A
Individual pole short-circuit (I _{tr})	: 1,2 Isd at 690 Vac
Rated ultimate short-circuit breaking capacity (I _{cu})	: 70 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac, 40 kA at 500 Vac, 12 kA at 660 Vac / 690 Vac
Rated service short-circuit breaking capacity (I _{cs})	: 70 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac, 40 kA at 500 Vac, 12 kA at 660 Vac / 690 Vac

Product data – type NM8N-400R

Rated current (In)	: 250 A, 315 A, 350 A, 400 A
Individual pole short-circuit (I _{tr})	: 1,2 Isd at 690 Vac
Rated ultimate short-circuit breaking capacity (I _{cu})	: 150 kA at 380 Vac / 400 Vac / 415 Vac 100 kA at 440 Vac, 50 kA at 500 Vac, 15 kA at 660 Vac / 690 Vac
Rated service short-circuit breaking capacity (I _{cs})	: 150 kA at 380 Vac / 400 Vac / 415 Vac 100 kA at 440 Vac, 50 kA at 500 Vac, 15 kA at 660 Vac / 690 Vac

Product data – type NM8N-400S

Rated current (In)	: 250 A, 315 A, 350 A, 400 A
Individual pole short-circuit (I _{tr})	: 1,2 Isd at 690 Vac
Rated ultimate short-circuit breaking capacity (I _{cu})	: 50 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac, 40 kA at 500 Vac, 12 kA at 660 Vac / 690 Vac
Rated service short-circuit breaking capacity (I _{cs})	: 50 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac, 40 kA at 500 Vac, 12 kA at 660 Vac / 690 Vac

Product data – type NM8N-630C

Rated current (In)	: 250 A, 315 A, 350 A, 400 A, 500 A, 630 A
Individual pole short-circuit (I _{tr})	: 1,2 Isd at 440 Vac
Rated ultimate short-circuit breaking capacity (I _{cu})	: 36 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac, 25 kA at 500 Vac, 10 kA at 660 Vac / 690 Vac
Rated service short-circuit breaking capacity (I _{cs})	: 36 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac, 25 kA at 500 Vac, 10 kA at 660 Vac / 690 Vac

Product data – type NM8N-630H

Rated current (In)	: 250 A, 315 A, 350 A, 400 A, 500 A, 630 A
Individual pole short-circuit (I _{tr})	: 1,2 Isd at 440 Vac
Rated ultimate short-circuit breaking capacity (I _{cu})	: 100 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac, 50 kA at 500 Vac, 15 kA at 660 Vac / 690 Vac
Rated service short-circuit breaking capacity (I _{cs})	: 100 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac, 50 kA at 500 Vac, 15 kA at 660 Vac / 690 Vac

Product data – type NM8N-630Q

Rated current (In)	: 250 A, 315 A, 350 A, 400 A, 500 A, 630 A
Individual pole short-circuit (I _{tr})	: 1,2 Isd at 440 Vac
Rated ultimate short-circuit breaking capacity (I _{cu})	: 70 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac, 40 kA at 500 Vac, 12 kA at 660 Vac / 690 Vac
Rated service short-circuit breaking capacity (I _{cs})	: 70 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac, 40 kA at 500 Vac, 12 kA at 660 Vac / 690 Vac

Product data – type NM8N-630R

Rated current (In)	: 250 A, 315 A, 350 A, 400 A, 500 A, 630 A
Individual pole short-circuit (I _{tr})	: 1,2 Isd at 440 Vac
Rated ultimate short-circuit breaking capacity (I _{cu})	: 150 kA at 380 Vac / 400 Vac / 415 Vac 100 kA at 440 Vac, 50 kA at 500 Vac, 15 kA at 660 Vac / 690 Vac
Rated service short-circuit breaking capacity (I _{cs})	: 150 kA at 380 Vac / 400 Vac / 415 Vac 100 kA at 440 Vac, 50 kA at 500 Vac, 15 kA at 660 Vac / 690 Vac

Product data – type NM8N-630S

Rated current (In)	: 250 A, 315 A, 350 A, 400 A, 500 A, 630 A
Individual pole short-circuit (I _{tr})	: 1,2 Isd at 440 Vac
Rated ultimate short-circuit breaking capacity (I _{cu})	: 50 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac, 40 kA at 500 Vac, 12 kA at 660 Vac / 690 Vac
Rated service short-circuit breaking capacity (I _{cs})	: 50 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac, 40 kA at 500 Vac, 12 kA at 660 Vac / 690 Vac

TESTS**Test requirements**

IEC 60947-2:2016

IEC 60947-2:2016/A1:2019

EN 60947-2:2017

EN 60947-2:2017/A1:2020

Test result

The test results are laid down in DEKRA test file 332597500.

Additional information

Nomenclature breakdown:

NM8N – 630 C EN 630 4

a b c d e f

a = model name: 'NM8N'

b = frame size: '630' or '400'

c = short-circuit capacity: 'C', 'S', 'Q', 'H' or 'R'

d = trip unit: 'EN'

e = rated current: 250 A, 315 A, 350 A, 400 A, 500 A, 630 A

f = number of poles: '4' means 4P, '3' means 3P

The referred test reports are 3325975.50 and 3321433.50.

This certificate is based on certificate No. 33-121677.

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