

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) EN 60947-2:2017, EN 60947-2:2017/A1:2020, IEC 60947-2:2016, IEC 60947-2:2016/A1:2019, 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

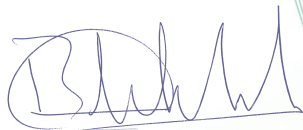
DEKRA hereby grants the right to use the KEMA-KEUR certification mark.

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 30 March 2022 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 33-120287

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



R Zhou
Certification Manager

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DUTCH ACCREDITATION
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 (N pole with or without overcurrent protection)
Protected poles	: 3 or 4
Rated operational voltage (Ue)	: 380 Vac / 400 Vac / 415 Vac, 440 Vac, 500 Vac, 525 Vac 660 Vac / 690 Vac
Rated insulation voltage (Ui)	: 1000 V for main circuit 500 V for control circuit 500 V for auxiliary circuit
Rated impulse withstand voltage (Uimp)	: 12 kV for main circuit 2,5 kV for shunt release and undervoltage release 6 kV for electric operating mechanisms 2,5 kV for auxiliary circuit
Rated frequency	: 50 / 60 Hz
Conventional thermal current (Ith)	: Equal to In
Suitable for isolation	: Suitable
Current rating for four-pole circuit-breakers	: Equal to In
Individual pole short-circuit (IIT)	: 1,2 li at 690 Vac
Selectivity category	: A
Safety distance (screen-circuit breaker)	: Front / back: 0 mm Left / right: 0 mm Up / down: 0 mm
Reference temperature	: 40 °C
Method of mounting	: plug-in or fixed or withdrawable
EMC Environment	: A
Tightening torque for terminals	: 25,0 Nm for M10
Line/load terminal	: Immaterial
Connection	: copper conductor with cable lug
Inverse time delay release	: Ir (inverse time delay tripping setting): For thermal magnetic type: Ir: (0,7 / 0,8 / 0,9 / 1) x In
Time setting of the inverse time delay release	: Fixed, trip time at 2 In: 60 s ≤ t ≤ 600 s
Instantaneous release	: li (instantaneous tripping setting): For thermal magnetic type: li: (5 / 6 / 7 / 8 / 9 / 10) x In For electromagnetic type: li: (9 / 10 / 11 / 12 / 13 / 14) x In
Shunt release	: SHT22-M8: AC: 48 V, 110 V, 220 - 240 V, 380 - 415 V, 50 / 60 Hz DC: 24 V, 48 V, 110 - 120 V, 220 V
Under-voltage release	: UVT22-M8: AC: 48 V, 110 V, 220 - 240 V, 380 - 415 V, 50 / 60 Hz DC: 24 V, 48 V, 110 - 120 V, 220 V
Electric operating mechanisms	: MOD23-M8: AC: 110 V, 220 - 240 V, 380 - 415 V, 50 / 60 Hz DC: 24 V, 110 V, 220

Auxiliary circuits : AX21-M8 / AL21-M8
 1 NO and 1 NC
 AC-15: 2 A at 415 Vac, 4 A at 240 Vac,
 5 A at 110 Vac
 DC-13: 0,25 A at 220 Vdc / 110 Vdc
 Ui: 500 V, Uimp: 2,5 kV
 Rated conditional short-circuit current: 1 kA
 Fuse: RL6-25/6, 6 A, 500 Vac, 50 kA, Schneider

Product data – type NM8N-400C

Rated current (In) : 250 A, 315 A, 350 A, 400 A
 Rated ultimate short-circuit breaking capacity (Icu) : 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 (Ics) : 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
 Rated ultimate short-circuit breaking capacity (Icu) : 100 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac,
 50 kA at 500 Vac / 525 Vac,
 15 kA at 660 Vac / 690 Vac
 Rated service short-circuit breaking capacity (Ics) : 100 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac,
 50 kA at 500 Vac / 525 Vac,
 15 kA at 660 Vac / 690 Vac

Product data – type NM8N-400Q

Rated current (In) : 250 A, 315 A, 350 A, 400 A
 Rated ultimate short-circuit breaking capacity (Icu) : 70 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac,
 40 kA at 500 Vac,
 36 kA at 525 Vac,
 12 kA at 660 Vac / 690 Vac
 Rated service short-circuit breaking capacity (Ics) : 70 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac,
 40 kA at 500 Vac,
 36 kA at 525 Vac,
 12 kA at 660 Vac / 690 Vac

Product data – type NM8N-400R

Rated current (In) : 250 A, 315 A, 350 A, 400 A
 Rated ultimate short-circuit breaking capacity (Icu) : 150 kA at 380 Vac / 400 Vac / 415 Vac
 100 kA at 440 Vac,
 50 kA at 500 Vac / 525 Vac,
 15 kA at 660 Vac / 690 Vac
 Rated service short-circuit breaking capacity (Ics) : 150 kA at 380 Vac / 400 Vac / 415 Vac
 100 kA at 440 Vac,
 50 kA at 500 Vac / 525 Vac,
 15 kA at 660 Vac / 690 Vac

Product data – type NM8N-400S

Rated current (In) : 250 A, 315 A, 350 A, 400 A

Rated ultimate short-circuit breaking capacity (Icu)	: 50 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac, 40 kA at 500 Vac, 36 kA at 525 Vac, 12 kA at 660 Vac / 690 Vac
Rated service short-circuit breaking capacity (Ics)	: 50 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac, 40 kA at 500 Vac, 36 kA at 525 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
Rated ultimate short-circuit breaking capacity (Icu)	: 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 (Ics)	: 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
Rated ultimate short-circuit breaking capacity (Icu)	: 100 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac, 50 kA at 500 Vac / 525 Vac, 15 kA at 660 Vac / 690 Vac
Rated service short-circuit breaking capacity (Ics)	: 100 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac, 50 kA at 500 Vac / 525 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
Rated ultimate short-circuit breaking capacity (Icu)	: 70 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac, 40 kA at 500 Vac, 36 kA at 525 Vac, 12 kA at 660 Vac / 690 Vac
Rated service short-circuit breaking capacity (Ics)	: 70 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac, 40 kA at 500 Vac, 36 kA at 525 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
Rated ultimate short-circuit breaking capacity (Icu)	: 150 kA at 380 Vac / 400 Vac / 415 Vac 100 kA at 440 Vac, 50 kA at 500 Vac / 525 Vac, 15 kA at 660 Vac / 690 Vac
Rated service short-circuit breaking capacity (Ics)	: 150 kA at 380 Vac / 400 Vac / 415 Vac 100 kA at 440 Vac, 50 kA at 500 Vac / 525 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
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Rated ultimate short-circuit breaking capacity (Icu)	: 50 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac, 40 kA at 500 Vac, 36 kA at 525 Vac, 12 kA at 660 Vac / 690 Vac
Rated service short-circuit breaking capacity (Ics)	: 50 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac, 40 kA at 500 Vac, 36 kA at 525 Vac, 12 kA at 660 Vac / 690 Vac

TESTS

Test requirements

EN 60947-2:2017

EN 60947-2:2017/A1:2020

IEC 60947-2:2016

IEC 60947-2:2016/A1:2019

IEC 60947-5-1:2016

EN 60947-5-1:2017

Test result

The test results are laid down in DEKRA test file 332142900.

Additional information

Nomenclature breakdown:

NM8N – 630 C TM 500 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: 'M' means electromagnetic type (ICB) or 'TM' means thermal magnetic type

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

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

The referred test reports are 3321429.50, CQC CB test certificate CN46412-M1 issued on 2019-06-18 with CB test report no. 00901-CB2018CQC-084130-M1 issued on 2019-06-06 and CQC CB test certificate CN46412 issued on 2019-04-09 with CB test no. 00901-CB2018CQC-084130 issued on 2019-03-25.

This certificate replaces certificate No. 33-110659 which we hereby declare invalid.

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

Accessory type	Model
Auxiliary circuit	AX21-M8 / AL21-M8
Shunt release	SHT22-M8
Undervoltage release	UVT22-M8
Electric operating mechanism	MOD23-M8
Rotation handle	DRH23-M8
Plug-in base	PIA23-M8
Withdrawable base	DOB23-M8