

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

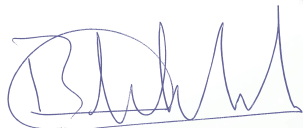
DEKRA hereby grants the right to use the KEMA-KEUR certification mark.

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 14 October 2019 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 33-110659

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, 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 Ii 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	: Ii (instantaneous tripping setting): For thermal magnetic type: Ii: (5 / 6 / 7 / 8 / 9 / 10) x In For electromagnetic type: Ii: (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,  
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,  
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,  
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,  
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,  
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,  
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,  
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,  
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,  
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,  
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,  
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,  
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,  
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,  
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  
Rated ultimate short-circuit breaking capacity (Icu) : 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 (Ics) : 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

EN 60947-2:2017  
EN 60947-5-1:2017

### Test result

The test results are laid down in DEKRA test file 331535100.

### 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 3315351.50, CQC test report no. 00901-CB2018CQC-084130 issued on 2019-03-25 and CQC test report no. 00901-CB2018CQC-084130-M1 issued on 2019-06-06.

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

This certificate replaces certificate No. 33-110333 which we herewith 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