

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-250C, NM8N-250H, NM8N-250Q, NM8N-250R and NM8N-250S

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, EN 60947-5-1:2017 and IEC 60947-5-1:2016
- an inspection of the factory location according to CENELEC Operational Document CIG 021
- a DEKRA certification agreement with the number 2032236

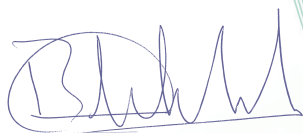
DEKRA hereby grants the right to use the KEMA-KEUR certification mark.

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 1 April 2022 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 33-120356

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



H.L. Schendstok
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-250C, NM8N-250H, NM8N-250Q, NM8N-250R and NM8N-250S
Rated insulation voltage (Ui)	: 1000 V for main circuit 500 V for shunt release and undervoltage release (2P, 3P and 4P) 500 V for electric operating mechanism (3P and 4P) 500 V for auxiliary circuit (2P, 3P and 4P)
Rated impulse withstand voltage (Uimp)	: 8 kV for main circuit 2,5 kV for shunt release and undervoltage release for (2P, 3P and 4P) 6 kV for electric operating mechanism (3P and 4P) 2,5 kV for auxiliary circuit (2P, 3P and 4P)
Rated frequency	: 50 / 60 Hz
Rated current (In)	: 125 A, 160 A, 180 A, 200 A, 225 A, 250 A
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 for 2P, 3P and 4P MCCBs 1,2 Ii at 240 Vac for 1P MCCBs
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	: Fixed or plug-in (only for 3P and 4P MCCBs)
EMC Environment	: A
Tightening torque for terminals	: 11,0 Nm for M8
Line/load terminal	: Immaterial
Connection	: copper conductor with cable lug
Inverse time delay release	: Ir (inverse time delay tripping setting): For thermal magnetic type for 2P, 3P and 4P: Ir: (0,7 / 0,8 / 0,9 / 1,0) x In For thermal magnetic type for 1P: Ir: 1,0 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 for 2P, 3P and 4P: Ii: (5 / 6 / 7 / 8 / 9 / 10) x In for In: 180 A - 250 A Ii: (7 / 8 / 9 / 10 / 11 / 12) x In for In: 125 A - 160 A For electromagnetic type for 2P, 3P and 4P: Ii: (9 / 10 / 11 / 12 / 13 / 14) x In For thermal magnetic type for 1P: Ii: 10 In
Shunt release	: SHT22-M8 for 2P, 3P and 4P: 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 for 2P, 3P and 4P: 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 mechanism	: MOD22-M8 for 3P and 4P: AC: 110 V, 220 - 240 V, 380 - 415 V, 50 / 60 Hz DC: 24 V, 110 V, 220 V
Auxiliary circuits	: AX21-M8 / AL21-M8 for 2P, 3P and 4P: 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-250C

Number of poles	: 1P, 2P, 3P and 4P (N pole with or without overcurrent protection)
Protected poles	: 1P, 2P, 3P and 4P
Rated operational voltage (Ue)	: 2P, 3P and 4P: 380 Vac / 400 Vac / 415 Vac, 440 Vac, 500 Vac, 660 Vac / 690 Vac 1P: 220 Vac / 230 Vac / 240 Vac
Rated ultimate short-circuit breaking capacity (Icu)	: 2P, 3P and 4P: 36 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac, 25 kA at 500 Vac, 6 kA at 660 Vac / 690 Vac, 1P: 36 kA at 220 Vac / 230 Vac / 240 Vac,
Rated service short-circuit breaking capacity (Ics)	: 2P, 3P and 4P: 36 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac, 25 kA at 500 Vac, 6 kA at 660 Vac / 690 Vac, 1P: 36 kA at 220 Vac / 230 Vac / 240 Vac,

Product data – type NM8N-250H

Number of poles	: 2P, 3P and 4P (N pole with or without overcurrent protection)
Protected poles	: 2P, 3P and 4P
Rated operational voltage (Ue)	: 380 Vac / 400 Vac / 415 Vac, 440 Vac, 500 Vac, 660 Vac / 690 Vac for 2P, 380 Vac / 400 Vac / 415 Vac, 440 Vac, 500 Vac, 525 Vac 660 Vac / 690 Vac for 3P and 4P
Rated ultimate short-circuit breaking capacity (Icu)	: 2P: 100 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac, 50 kA at 500 Vac, 10 kA at 660 Vac / 690 Vac, 3P and 4P: 100 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac, 50 kA at 500 Vac / 525 Vac, 10 kA at 660 Vac / 690 Vac
Rated service short-circuit breaking capacity (Ics)	: 2P: 100 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac, 50 kA at 500 Vac, 10 kA at 660 Vac / 690 Vac, 3P and 4P: 100 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac, 50 kA at 500 Vac / 525 Vac, 10 kA at 660 Vac / 690 Vac

Product data – type NM8N-250Q

Number of poles	: 2P, 3P and 4P (N pole with or without overcurrent protection)
Protected poles	: 2P, 3P and 4P
Rated operational voltage (Ue)	: 380 Vac / 400 Vac / 415 Vac, 440 Vac, 500 Vac, 660 Vac / 690 Vac for 2P, 380 Vac / 400 Vac / 415 Vac, 440 Vac, 500 Vac, 525 Vac 660 Vac / 690 Vac for 3P and 4P
Rated ultimate short-circuit breaking capacity (Icu)	: 2P: 70 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac, 40 kA at 500 Vac, 8 kA at 660 Vac / 690 Vac 3P and 4P: 70 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac, 40 kA at 500 Vac, 36 kA at 525 Vac, 8 kA at 660 Vac / 690 Vac
Rated service short-circuit breaking capacity (Ics)	: 2P: 70 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac, 40 kA at 500 Vac, 8 kA at 660 Vac / 690 Vac 3P and 4P: 70 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac, 40 kA at 500 Vac, 36 kA at 525 Vac, 8 kA at 660 Vac / 690 Vac 380 Vac / 400 Vac / 415 Vac, 440 Vac, 500 Vac, 660 Vac / 690 Vac for 2P, 380 Vac / 400 Vac / 415 Vac, 440 Vac, 500 Vac, 525 Vac 660 Vac / 690 Vac for 3P and 4P

Product data – type NM8N-250R

Number of poles	: 2P, 3P and 4P (N pole with or without overcurrent protection)
Protected poles	: 2P, 3P and 4P
Rated operational voltage (Ue)	: 380 Vac / 400 Vac / 415 Vac, 440 Vac, 500 Vac, 660 Vac / 690 Vac for 2P, 380 Vac / 400 Vac / 415 Vac, 440 Vac, 500 Vac, 525 Vac 660 Vac / 690 Vac for 3P and 4P
Rated ultimate short-circuit breaking capacity (Icu)	: 2P: 150 kA at 380 Vac / 400 Vac / 415 Vac 100 kA at 440 Vac, 50 kA at 500 Vac, 10 kA at 660 Vac / 690 Vac 3P and 4P: 150 kA at 380 Vac / 400 Vac / 415 Vac 100 kA at 440 Vac, 50 kA at 500 Vac / 525 Vac, 10 kA at 660 Vac / 690 Vac

Rated service short-circuit breaking capacity (Ics) : 2P:
150 kA at 380 Vac / 400 Vac / 415 Vac
100 kA at 440 Vac,
50 kA at 500 Vac,
10 kA at 660 Vac / 690 Vac
3P and 4P:
150 kA at 380 Vac / 400 Vac / 415 Vac
100 kA at 440 Vac,
50 kA at 500 Vac / 525 Vac,
10 kA at 660 Vac / 690 Vac

Product data – type NM8N-250S

Number of poles : 1P, 2P, 3P and 4P (N pole with or without overcurrent protection)
Protected poles : 1P, 2P, 3P and 4P
Rated operational voltage (Ue) : 220 Vac / 230 Vac / 240 Vac for 1P
380 Vac / 400 Vac / 415 Vac, 440 Vac, 500 Vac,
660 Vac / 690 Vac for 2P,
380 Vac / 400 Vac / 415 Vac, 440 Vac, 500 Vac, 525 Vac
660 Vac / 690 Vac for 3P and 4P
Rated ultimate short-circuit breaking capacity (Icu) : 1P:
50 kA at 220 Vac / 230 Vac / 240 Vac
2P:
50 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac,
40 kA at 500 Vac,
8 kA at 660 Vac / 690 Vac,
3P and 4P:
50 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac,
40 kA at 500 Vac,
36 kA at 525 Vac,
8 kA at 660 Vac / 690 Vac
Rated service short-circuit breaking capacity (Ics) : 1P:
50 kA at 220 Vac / 230 Vac / 240 Vac
2P:
50 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac,
40 kA at 500 Vac,
8 kA at 660 Vac / 690 Vac
3P and 4P:
50 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac,
40 kA at 500 Vac,
36 kA at 525 Vac,
8 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
EN 60947-5-1:2017
IEC 60947-5-1:2016

Test result

The test results are laid down in DEKRA test file 332142300.

Additional information

NM8N – 250 C TM 250 4

a b c d e f

a = model name: 'NM8N'

b = frame size: '250'

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: 125 A, 160 A, 180 A, 200 A, 225 A, 250 A

f = number of poles: '4' means 4P, '3' means 3P, '2' means 2P, '1' means 1P

The referred test reports are 3321423.50, 3321423.51, 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. 33-116242 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 (2P, 3P and 4P)
Shunt release	SHT22-M8 (2P, 3P and 4P)
Undervoltage release	UVT22-M8 (2P, 3P and 4P)
Electric operating mechanism	MOD22-M8 (3P and 4P)
Rotation handle	DRH22-M8 (3P and 4P)
Plug-in base	PIA22-M8 (3P and 4P)