

# ATTESTATION OF CONFORMITY

Issued to: Zhejiang Chint Electrics Co., Ltd.  
No.1, Chint Road, Chint Industrial Zone, North Baixiang, Yueqing, 325603 Zhejiang, China

For the product: Circuit-breakers incorporating residual current protection

Trade name: CHINT

Type/Model: NM8NL-250C, NM8NL-250S, NM8NL-250Q, NM8NL-250H and NM8NL-250R

Ratings: Ue: 380 Vac / 400 Vac / 415 Vac, 440 Vac, 50 / 60 Hz,  
In: 125 A, 160 A, 180 A, 200 A, 225 A, 250 A  
See annex for further ratings

Manufactured by: Zhejiang Chint Electrics Co., Ltd.  
No.1, Chint Road, Chint Industrial Zone, North Baixiang, Yueqing, 325603 Zhejiang, China

Requirements: BS EN 60947-2:2017+A1:2020, BS EN 60947-5-1:2017

This Attestation is granted on account of an examination by DEKRA, the results of which are laid down in a test report no. 3321437.50 issued on 2022-03-25, CQC CB test report no. 00901-CB2018CQC-084130 issued on 2019-03-25 with CB test certificate no. CN46412 issued on 2019-04-09 and CQC CB test report no. 00901-CB2018CQC-084130-M1 issued on 2019-06-06 with CB test certificate no. CN46412-M1 issued on 2019-06-18.

This Attestation implies that the examined types are in accordance with the standards designated under the Electrical Equipment (Safety) Regulations 2016.

The examination has been carried out on one single specimen or several specimens of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

The UKCA marking may be affixed on the product if all relevant and effective UK regulations are complied with.

Wenzhou, Zhejiang, 8 April 2022

Number: 3321437.02A

DEKRA Testing Services (Zhejiang) Co., Ltd

Ms J Guo  
Certification Manager

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CA

# Annex

Document no.	: Attestation Number 3321437.02A
<b>Ratings</b>	
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
Rated insulation voltage (Ui)	: 1000 V for main circuit 500 V for control circuit 500 V for auxiliary circuit
Rated impulse withstand voltage (Uimp)	: 8 kV for main circuit 2,5 kV for shunt release and under-voltage release 6 kV for electric operating mechanism 2,5 kV for auxiliary circuit
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
Current rating for four-pole circuit-breakers	: Equal to In
Individual pole short-circuit (IIT)	: 1,2 Ii at 440 Vac
Suitable for isolation	: Suitable
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
EMC Environment	: A
Tightening torque for terminals	: 6,0 Nm for M6
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 In: 180 A - 250 A Ii: (7 / 8 / 9 / 10 / 11 / 12) x In for In: 125 A - 160 A For electromagnetic type: Ii: (9 / 10 / 11 / 12 / 13 / 14) x In
Rated residual operating current (IΔn)	: For non-time-delay type: Current setting: Adjustable with fixed steps: RCD1: 30 mA / 100 mA / 300 mA / 1000 mA, RCD2: 50 mA / 200 mA / 500 mA / 2000 mA For time-delay type: Current setting: Adjustable with fixed steps:



Time setting of rated residual operating current	: Non-time-delay or adjustable time-delay: 0,3 s / 0,5 s / 1,0 s
Time setting of rated residual operating current	: Non-time-delay or adjustable time-delay: 0,3 s / 0,5 s / 1,0 s
The limiting non-actuating time at $2I\Delta n$ ( $\Delta t$ )	: 0,06 s / 0,2 s / 0,5 s
Classification according to behaviour in presence of a d.c. component	: Type A or Type AC
Dependent on line voltage	: Yes
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 mechanism	: MOD22-M8: 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 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 rating - NM8NL-250C

Rated ultimate short-circuit breaking capacity ( $I_{cu}$ )	: 36 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac,
Rated service short-circuit breaking capacity ( $I_{cs}$ )	: 36 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac,
Residual short-circuit making and breaking capacity ( $I\Delta m$ )	: 9 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac,

#### Product rating - NM8N-250Q

Rated ultimate short-circuit breaking capacity ( $I_{cu}$ )	: 70 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac,
Rated service short-circuit breaking capacity ( $I_{cs}$ )	: 70 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac,
Residual short-circuit making and breaking capacity ( $I\Delta m$ )	: 17,5 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac

#### Product rating - NM8NL-250H

Rated ultimate short-circuit breaking capacity ( $I_{cu}$ )	: 100 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac,
Rated service short-circuit breaking capacity ( $I_{cs}$ )	: 100 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac,
Residual short-circuit making and breaking capacity ( $I\Delta m$ )	: 25 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac

**Product rating - NM8NL-250R**

Rated ultimate short-circuit breaking capacity (I <sub>cu</sub> )	: 150 kA at 380 Vac / 400 Vac / 415 Vac 100 kA at 440 Vac,
Rated service short-circuit breaking capacity (I <sub>cs</sub> )	: 150 kA at 380 Vac / 400 Vac / 415 Vac 100 kA at 440 Vac,
Residual short-circuit making and breaking capacity (I <sub>Δm</sub> )	: 37,5 kA at 380 Vac / 400 Vac / 415 Vac 25 kA at 440 Vac,

**Product rating - NM8NL-250S**

Rated ultimate short-circuit breaking capacity (I <sub>cu</sub> )	: 50 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac,
Rated service short-circuit breaking capacity (I <sub>cs</sub> )	: 50 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac,
Residual short-circuit making and breaking capacity (I <sub>Δm</sub> )	: 12,5 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac,

**Additional information**

**NM8N L – 250 C TM 250 4**

a b c d e f g

a = model name: 'NM8N'

b = residual current protection device

c = frame size: '250'

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

e = trip unit: 'M' means electromagnetic type (ICB) or 'TM' means thermal magnetic type

f = rated current: 125 A, 160 A, 180 A, 200 A, 225 A, 250 A

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

Accessory type	Model
Auxiliary circuit	AX21-M8 / AL21-M8
Shunt release	SHT22-M8
Under-voltage release	UVT22-M8
Electric operating mechanism	MOD22-M8
Rotation handle	DRH22-M8

End