

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-breaks 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: 32 A, 40 A, 50 A, 63 A, 80 A, 100 A, 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. 3321439.50 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, 14 April 2022

Number: 3321439.02A

DEKRA Testing Services (Zhejiang) Co., Ltd

Ms J Guo
Certification Manager

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UK
CA

Annex

Document no.	: Attestation Number 3321439.02A
Ratings	
Number of poles	: 3P and 4P
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)	: 32 A, 40 A, 50 A, 63 A, 80 A, 100 A, 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	: 0,5 In, 1,0In, OFF
Rated short-time withstand current (Icw)	: $I_n \leq 63 \text{ A}$: 1 kA - 1 s, $63 \text{ A} < I_n \leq 160 \text{ A}$: 2 kA - 1 s, $I_n \geq 180 \text{ A}$, 3 kA - 1 s
Reference temperature	: Independent
Individual pole short-circuit (I_{IT})	: 1,2 Isd at 440 Vac with electronic trip unit EN or EM
Suitable for isolation	: Suitable
Selectivity category	: A
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	: 11 Nm for M8
Line/load terminal	: Immaterial
Connection	: copper conductor with cable lug
Inverse time delay release	: Ir (inverse time delay tripping setting): For trip unit: EN: (0,4 / 0,5 / 0,6 / 0,7 / 0,8 / 0,9 / 0,95 / 1) x In For trip unit: ENM: (0,4 / 0,5 / 0,6 / 0,7 / 0,8 / 0,9 / 1) x In For trip unit: EM and EMM: (0,4 - 1) x In, in steps of 1 A

Time setting of the inverse time delay release

tr (inverse time delay tripping setting):
 For trip unit: EN:
 3 / 6 / 12 / 18 s, with tolerance of $\pm 10\%$ (at 6 Ir)
 For trip unit: EM:
 3 s - 18 s, with tolerance of $\pm 10\%$ (at 6 Ir)
 in steps of 1 s,
 For trip unit: ENM and EMM:
 4 / 8 / 16 s, with tolerance of $\pm 10\%$ (at 7,2 Ir)
 2 Ir tripping time declared by the manufacturer:
 For trip unit: EN and EM:
 when tr = 3 s: 24,3 s - 29,7 s
 when tr = 18 s: 145,8 s - 178,2 s
 For trip unit: ENM and EMM:
 when tr = 4 s: 46,66 s - 57,0 s
 when tr = 16 s: 186,6 s - 228,1 s

Short time delay release

: Isd (short time delay current setting):
 For trip unit: EN:
 (1,5 / 2,0 / 3,0 / 4,0 / 6,0 / 8,0 / 10) x Ir, OFF
 For trip unit: ENM:
 (5,0 / 6,0 / 8,0 / 9,0 / 10 / 11 / 12) x Ir, OFF
 For trip unit: EM:
 (1,5 - 10) x Ir, OFF,
 in steps of 1 A,
 For trip unit: EMM:
 (4,0 - 12) x Ir, OFF,
 in steps of 1 A,

Time setting of the short time delay release

tsd (short time delay time setting):
 For trip unit: EN:
 I^2t 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
 For trip unit: EM:
 in steps of 0,1 s,
 I^2t 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
 For trip unit: ENM and EMM:
 I^2t off: 0,1 s
 0,1 s, with tolerance of 60 ms - 140 ms
 non-tripping duration stated by the manufacturer:
 For trip unit: EN and EM:
 0,1 s: 60 ms
 0,2 s: 160 ms
 0,3 s: 240 ms
 0,4 s: 320 ms
 For trip unit: ENM and EMM:
 0,1 s: 60 ms

Instantaneous release	: I _i (instantaneous current setting): For trip unit: EN: (2,0 / 3,0 / 4,0 / 6,0 / 8,0 / 10 / 12) x I _n , OFF For trip unit: ENM: 15 x I _n , For trip unit: EM: (1,5 - 12) x I _n , OFF, in steps of 1 A, For trip unit: EMM: 15 x I _n
Ground fault release	: I _g (Ground fault release) Current setting I _g : For trip unit: EM and EMM: I _g : (0,4 / 0,5 / 0,6 / 0,7 / 0,8 / 0,9 / 1,0) x I _n , OFF, t _g (time setting): I _t 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
Rated residual operating current (I _{Δn})	: 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: RCD1: 100 mA / 300 mA / 1000 mA, RCD2: 50 mA / 200 mA / 500 mA / 2000 mA
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 _{Δn} (Δt)	: 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, U _i : 500 V, U _{imp} : 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 (Icu)	: 36 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac
Rated service short-circuit breaking capacity (Ics)	: 36 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac
Residual short-circuit making and breaking capacity (IΔm)	: 9 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac

Product rating - NM8NL-250S

Rated ultimate short-circuit breaking capacity (Icu)	: 50 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac
Rated service short-circuit breaking capacity (Ics)	: 50 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac
Residual short-circuit making and breaking capacity (IΔm)	: 12,5 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac,

Product rating - NM8N-250Q

Rated ultimate short-circuit breaking capacity (Icu)	: 70 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac
Rated service short-circuit breaking capacity (Ics)	: 70 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac
Residual short-circuit making and breaking capacity (IΔm)	: 17,5 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac

Product rating - NM8N-250H

Rated ultimate short-circuit breaking capacity (Icu)	: 100 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac
Rated service short-circuit breaking capacity (Ics)	: 100 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac
Residual short-circuit making and breaking capacity (IΔm)	: 25 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac

Product rating - NM8N-250R

Rated ultimate short-circuit breaking capacity (Icu)	: 150 kA at 380 Vac / 400 Vac / 415 Vac, 100 kA at 440 Vac
Rated service short-circuit breaking capacity (Ics)	: 150 kA at 380 Vac / 400 Vac / 415 Vac, 100 kA at 440 Vac
Residual short-circuit making and breaking capacity (IΔm)	: 37,5 kA at 380 Vac / 400 Vac / 415 Vac, 25 kA at 440 Vac

Additional information

NM8N L – 250 C EM 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: 'EN', 'EM', 'ENM', 'EMM'

f = rated current: 32 A, 40 A, 50 A, 63 A, 80 A, 100 A, 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