

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, NM8N-250S and
NM8ND-250

The product and any acceptable variation thereto as 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 EN 60947-2:2017, EN 60947-2:2017/A1:2020, IEC 60947-2:2016 and IEC 60947-2:2016/A1:2019
- an inspection of the factory location according to CENELEC Operational Document CIG 021
- a DEKRA certification agreement with the number 2032236

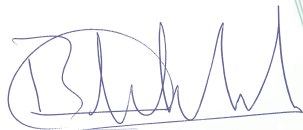
DEKRA hereby grants the right to use the KEMA-KEUR certification mark.

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 4 May 2023 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 33-128318

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



H.L. Schendstok
Certification Manager

© Integral publication of this certificate is allowed

ACCREDITED BY THE
DUTCH ACCREDITATION
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, NM8N-250S and NM8ND-250
Rated insulation voltage (Ui)	: 1000 V
Rated impulse withstand voltage (Uimp)	: 8 kV
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
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	: 11,0 Nm for M8
Line/load terminal	: Immaterial
Connection	: Copper conductor with cable lug
Inverse time delay release	: Ir (inverse time delay tripping setting): 2P, 3P and 4P: Ir: (0,7 / 0,8 / 0,9 / 1,0) x In 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

Product data – type NM8N-250C

Number of poles	: 1P, 2P, 3P and 4P (N pole with or without overcurrent protection)
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
Individual pole short-circuit (Itr)	: 1,2 li at 690 Vac for 2P, 3P and 4P MCCBs 1,2 li at 240 Vac for 1P MCCBs
Reference temperature	: +50 °C or +55 °C

Instantaneous release : li (instantaneous current setting):
 2P, 3P and 4P:
 li: (5 / 6 / 7 / 8 / 9 / 10) x In for In: 180 A -250 A
 li: (7 / 8 / 9 / 10 / 11 / 12) x In for In: 125 A -160 A
 1P:
 li: 10 In

Product data – type NM8N-250H

Number of poles : 2P, 3P and 4P (N pole with or without overcurrent protection)
 Rated operational voltage (Ue) : 380 Vac / 400 Vac / 415 Vac, 440 Vac, 500 Vac,
 660 Vac / 690 Vac
 Rated ultimate short-circuit breaking capacity (Icu) : 100 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac,
 50 kA at 500 Vac,
 10 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,
 10 kA at 660 Vac / 690 Vac,
 Individual pole short-circuit (Itr) : 1,2 li at 690 Vac
 Reference temperature : +50 °C or +55 °C
 Instantaneous release : li (instantaneous current setting):
 2P, 3P and 4P:
 li: (5 / 6 / 7 / 8 / 9 / 10) x In for In: 180 A -250 A
 li: (7 / 8 / 9 / 10 / 11 / 12) x In for In: 125 A -160 A

Product data – type NM8N-250Q

Number of poles : 2P, 3P and 4P (N pole with or without overcurrent protection)
 Rated operational voltage (Ue) : 380 Vac / 400 Vac / 415 Vac, 440 Vac, 500 Vac,
 660 Vac / 690 Vac
 Rated ultimate short-circuit breaking capacity (Icu) : 70 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac,
 40 kA at 500 Vac,
 8 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,
 8 kA at 660 Vac / 690 Vac
 Individual pole short-circuit (Itr) : 1,2 li at 690 Vac
 Reference temperature : +50 °C or +55 °C
 Instantaneous release : li (instantaneous current setting):
 2P, 3P and 4P:
 li: (5 / 6 / 7 / 8 / 9 / 10) x In for In: 180 A -250 A
 li: (7 / 8 / 9 / 10 / 11 / 12) x In for In: 125 A -160 A

Product data – type NM8N-250R

Number of poles : 2P, 3P and 4P (N pole with or without overcurrent protection)
 Rated operational voltage (Ue) : 380 Vac / 400 Vac / 415 Vac, 440 Vac, 500 Vac,
 660 Vac / 690 Vac
 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,
 10 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,
 10 kA at 660 Vac / 690 Vac
 Individual pole short-circuit (Itr) : 1,2 li at 690 Vac
 Reference temperature : +50 °C or +55 °C

Instantaneous release : li (instantaneous current setting):
 2P, 3P and 4P:
 li: (5 / 6 / 7 / 8 / 9 / 10) x In for In: 180 A -250 A
 li: (7 / 8 / 9 / 10 / 11 / 12) x In for In: 125 A -160 A

Product data – type NM8N-250S

Number of poles : 1P, 2P, 3P and 4P (N pole with or without overcurrent protection)
 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, 3P and 4P
 Rated ultimate short-circuit breaking capacity (Icu) : 1P:
 50 kA at 220 Vac / 230 Vac / 240 Vac
 2P, 3P and 4P:
 50 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac,
 40 kA at 500 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, 3P and 4P:
 50 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac,
 40 kA at 500 Vac,
 8 kA at 660 Vac / 690 Vac
 Individual pole short-circuit (Itr) : 1,2 li at 690 Vac for 2P, 3P and 4P MCCBs
 1,2 li at 240 Vac for 1P MCCBs
 Reference temperature : +50 °C or +55 °C
 Instantaneous release : li (instantaneous current setting):
 2P, 3P and 4P:
 li: (5 / 6 / 7 / 8 / 9 / 10) x In for In: 180 A -250 A
 li: (7 / 8 / 9 / 10 / 11 / 12) x In for In: 125 A -160 A
 1P:
 li: 10 In

Product data – type NM8ND-250

Number of poles : 3P
 Rated operational voltage (Ue) : 240 Vac / 415 Vac
 Rated ultimate short-circuit breaking capacity (Icu) : 25 kA
 Rated service short-circuit breaking capacity (Ics) : 25 kA
 Individual pole short-circuit (Itr) : 1,2 li
 Reference temperature : +50 °C
 Instantaneous release : li (instantaneous current setting):
 Fixed, 10 In
 Electric operating mechanism : 230 Vac, 50 / 60 Hz

TESTS

Test requirements

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

Test result

The test results are laid down in DEKRA test file 332740900.

Additional information

Nomenclature breakdown:

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: '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

NM8ND - 250 TM 250 3

a b c d e

a = model name for MCCB with Energy storage operation: 'NM8ND'

b = frame size: '250'

c = trip unit: 'TM' means thermal magnetic type

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

e = number of poles: '3' means 3P

The referred tests reports are 3327409.50, 3325972.50, 3325972.51, 3321423.50 and 3321423.51.

This certificate replaces certificate No. 33-126171 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