

# 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) : NM8NDC-125B, NM8NDC-125C, NM8NDC-125H, NM8NDC-125Q and  
NM8NDC-125S

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) IEC 60947-2:2016, IEC 60947-2:2016/A1:2019, EN 60947-2:2017, EN 60947-2:2017/A1:2020, IEC 60947-5-1:2016 and EN 60947-5-1:2017
- an inspection of the factory location according to CENELEC Operational Document CIG 021
- a DEKRA certification agreement with the number 2032236

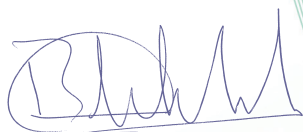
DEKRA hereby grants the right to use the KEMA-KEUR certification mark.

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: 33-121601

DEKRA Certification B.V.



B.T.M. Holtus  
Managing Director



H.L. Schendstok  
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)	: NM8NDC-125B, NM8NDC-125C, NM8NDC-125H, NM8NDC-125Q and NM8NDC-125S
Rated insulation voltage (Ui)	: 1000 V for main circuit 500 V for shunt release and under-voltage 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 under-voltage 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 current (In)	: 16 A, 20 A, 25 A, 32 A, 40 A, 50 A, 63 A, 80 A, 100 A, 125 A
Conventional thermal current (Ith)	: Equal to In
Suitable for photovoltaic (PV) systems	: Suitable
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	: 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): Ii: 10 In
Shunt release	: SHT21-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	: UVT21-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	: MOD21-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 NM8NDC-125B**

Rated operational voltage (Ue)	: 1000 Vdc for 4P, 750 Vdc for 3P, 500 Vdc for 2P, 250 Vdc for 1P
Number of poles	: 1P, 2P, 3P and 4P
Rated ultimate short-circuit breaking capacity (Icu)	: 25 kA at 1000 Vdc for 4P, 25 kA at 750 Vdc for 3P, 25 kA at 500 Vdc for 2P, 25 kA at 250 Vdc for 1P
Rated service short-circuit breaking capacity (Ics)	: 25 kA at 1000 Vdc for 4P, 25 kA at 750 Vdc for 3P, 25 kA at 500 Vdc for 2P, 25 kA at 250 Vdc for 1P

**Product data – type NM8NDC-125C**

Rated operational voltage (Ue)	: 1000 Vdc for 4P, 750 Vdc for 3P, 500 Vdc for 2P, 250 Vdc for 1P
Number of poles	: 1P, 2P, 3P and 4P
Rated ultimate short-circuit breaking capacity (Icu)	: 36 kA at 1000 Vdc for 4P, 36 kA at 750 Vdc for 3P, 36 kA at 500 Vdc for 2P, 36 kA at 250 Vdc for 1P
Rated service short-circuit breaking capacity (Ics)	: 36 kA at 1000 Vdc for 4P, 36 kA at 750 Vdc for 3P, 36 kA at 500 Vdc for 2P, 36 kA at 250 Vdc for 1P

**Product data – type NM8NDC-125H**

Rated operational voltage (Ue)	: 1000 Vdc for 4P, 750 Vdc for 3P, 500 Vdc for 2P
Number of poles	: 2P, 3P and 4P
Rated ultimate short-circuit breaking capacity (Icu)	: 100 kA at 1000 Vdc for 4P, 100 kA at 750 Vdc for 3P, 100 kA at 500 Vac for 2P
Rated service short-circuit breaking capacity (Ics)	: 100 kA at 1000 Vdc for 4P, 100 kA at 750 Vdc for 3P, 100 kA at 500 Vac for 2P

**Product data – type NM8NDC-125Q**

Rated operational voltage (Ue)	: 1000 Vdc for 4P, 750 Vdc for 3P, 500 Vdc for 2P
Number of poles	: 2P, 3P and 4P
Rated ultimate short-circuit breaking capacity (Icu)	: 70 kA at 1000 Vdc for 4P, 70 kA at 750 Vdc for 3P, 70 kA at 500 Vdc for 2P
Rated service short-circuit breaking capacity (Ics)	: 70 kA at 1000 Vdc for 4P, 70 kA at 750 Vdc for 3P, 70 kA at 500 Vdc for 2P

**Product data – type NM8NDC-125S**

Rated operational voltage (Ue)	: 1000 Vdc for 4P, 750 Vdc for 3P, 500 Vdc for 2P, 250 Vdc for 1P
Number of poles	: 1P, 2P, 3P and 4P

Rated ultimate short-circuit breaking capacity (Icu)	: 50 kA at 1000 Vdc for 4P, 50 kA at 750 Vdc for 3P, 50 kA at 500 Vdc for 2P, 50 kA at 250 Vdc for 1P
Rated service short-circuit breaking capacity (Ics)	: 50 kA at 1000 Vdc for 4P, 50 kA at 750 Vdc for 3P, 50 kA at 500 Vdc for 2P, 50 kA at 250 Vdc for 1P

## TESTS

### Test requirements

IEC 60947-2:2016  
IEC 60947-2:2016/A1:2019  
EN 60947-2:2017  
EN 60947-2:2017/A1:2020  
IEC 60947-5-1:2016  
EN 60947-5-1:2017

### Test result

The test results are laid down in DEKRA test file 332142100.

### Additional information

Nomenclature breakdown:

NM8N DC – 125 C TM 125 4

a      b      c d e f g

a = model name: 'NM8N'

b = direct current: 'DC'

c = frame size: '125'

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

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

f = rated current: 16 A, 20 A, 25 A, 32 A, 40 A, 50 A, 63 A, 80 A, 100 A, 125 A

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

The referred test reports are 3321421.50, 3321421.51, 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. 33-110890 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	SHT21-M8 (2P, 3P and 4P)
Undervoltage release	UVT21-M8 (2P, 3P and 4P)
Electric operating mechanism	MOD21-M8 (3P and 4P)
Rotation handle	DRH21-M8 (3P and 4P)