

# 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-125C, NM8N-125H, NM8N-125Q, NM8N-125R and NM8N-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) 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

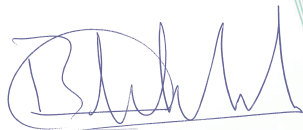
DEKRA hereby grants the right to use the KEMA-KEUR certification mark.

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

Certificate number: 33-120615 REV.1

DEKRA Certification B.V.



B.T.M. Holtus  
Managing Director



J. Marggraf  
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)                               | : NM8N-125C, NM8N-125H, NM8N-125Q, NM8N-125R and NM8N-125S                                                                                                                                                                                                                |
| Rated insulation voltage (Ui)                  | : 1000 V for main circuit<br>500 V for shunt release and undervoltage release (2P, 3P and 4P)<br>500 V for electric operating mechanism (3P and 4P)<br>500 V for auxiliary circuit (2P, 3P and 4P)                                                                        |
| Rated impulse withstand voltage (Uimp)         | : 8 kV for main circuit<br>2,5 kV for shunt release and undervoltage release for (2P, 3P and 4P)<br>6 kV for electric operating mechanism (3P and 4P)<br>2,5 kV for auxiliary circuit (2P, 3P and 4P)                                                                     |
| Rated frequency                                | : 50 / 60 Hz                                                                                                                                                                                                                                                              |
| 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                                                                                                                                                                                                                                                             |
| 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<br>1,2 Ii at 240 Vac for 1P MCCBs                                                                                                                                                                                             |
| Suitable for isolation                         | : Suitable                                                                                                                                                                                                                                                                |
| Selectivity category                           | : A                                                                                                                                                                                                                                                                       |
| Safety distance (screen-circuit breaker)       | : Front / back: 0 mm<br>Left / right: 0 mm<br>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                | : 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):<br>For thermal magnetic type I for 2P, 3P and 4P:<br>Ir: (0,7 / 0,8 / 0,9 / 1,0) x In<br>For thermal magnetic type II for 3P and 4P:<br>Ir: (0,7 / 0,8 / 0,9 / 1,0) x In<br>For thermal magnetic type for 1P:<br>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):<br>For thermal magnetic type for 1P, 2P, 3P and 4P:<br>Ii: 10 In<br>For thermal magnetic type II for 3P and 4P:<br>Ii: 5 In<br>For electromagnetic type for 2P, 3P and 4P:<br>Ii: 12 In                                            |
| Shunt release                                  | : SHT21-M8 for 2P, 3P and 4P:<br>AC: 48 V, 110 V, 220 - 240 V, 380 - 415 V, 50 / 60 Hz<br>DC: 24 V, 48 V, 110 - 120 V, 220 V                                                                                                                                              |
| Under-voltage release                          | : UVT21-M8 for 2P, 3P and 4P:<br>AC: 48 V, 110 V, 220 - 240 V, 380 - 415 V, 50 / 60 Hz<br>DC: 24 V, 48 V, 110 - 120 V, 220 V                                                                                                                                              |



|                              |                                                                                                                                                                                                                                                                                         |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electric operating mechanism | : MOD21-M8 for 3P and 4P:<br>AC: 110 V, 220 - 240 V, 380 - 415 V, 50 / 60 Hz<br>DC: 24 V, 110 V, 220 V                                                                                                                                                                                  |
| Auxiliary circuits           | : AX21-M8 / AL21-M8 for 2P, 3P and 4P:<br>1 NO and 1 NC<br>AC-15: 2 A at 415 Vac, 4 A at 240 Vac,<br>5 A at 110 Vac<br>DC-13: 0,25 A at 220 Vdc / 110 Vdc<br>Ui: 500 V, Uimp: 2,5 kV<br>Rated conditional short-circuit current: 1 kA<br>Fuse: RL6-25/6, 6 A, 500 Vac, 50 kA, Schneider |

#### Product data – type NM8N-125C

|                                                      |                                                                                                                                                                        |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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<br>380 Vac / 400 Vac / 415 Vac, 440 Vac, 500 Vac,<br>660 Vac / 690 Vac for 2P, 3P and 4P                                          |
| Rated ultimate short-circuit breaking capacity (Icu) | : 2P, 3P and 4P:<br>36 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac,<br>25 kA at 500 Vac,<br>6 kA at 660 Vac / 690 Vac,<br>1P:<br>36 kA at 220 Vac / 230 Vac / 240 Vac, |
| Rated service short-circuit breaking capacity (Ics)  | : 2P, 3P and 4P:<br>36 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac,<br>25 kA at 500 Vac,<br>6 kA at 660 Vac / 690 Vac,<br>1P:<br>36 kA at 220 Vac / 230 Vac / 240 Vac, |

#### Product data – type NM8N-125H

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

**Product data – type NM8N-125Q**

|                                                      |                                                                                                                                                                                                                                                    |
|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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,<br>660 Vac / 690 Vac for 2P,<br>380 Vac / 400 Vac / 415 Vac, 440 Vac, 500 Vac, 525 Vac<br>660 Vac / 690 Vac for 3P and 4P                                                                         |
| Rated ultimate short-circuit breaking capacity (Icu) | : 2P:<br>70 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac,<br>40 kA at 500 Vac,<br>8 kA at 660 Vac / 690 Vac<br>3P and 4P:<br>70 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac,<br>40 kA at 500 Vac,<br>36 kA at 525 Vac,<br>8 kA at 660 Vac / 690 Vac |
| Rated service short-circuit breaking capacity (Ics)  | : 2P:<br>70 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac,<br>40 kA at 500 Vac,<br>8 kA at 660 Vac / 690 Vac<br>3P and 4P:<br>70 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac,<br>40 kA at 500 Vac,<br>36 kA at 525 Vac,<br>8 kA at 660 Vac / 690 Vac |

**Product data – type NM8N-125R**

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

**Product data – type NM8N-125S**

|                                                      |                                                                                                                                                                                                                                                                                                    |
|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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<br>380 Vac / 400 Vac / 415 Vac, 440 Vac, 500 Vac,<br>660 Vac / 690 Vac for 2P,<br>380 Vac / 400 Vac / 415 Vac, 440 Vac, 500 Vac, 525 Vac<br>660 Vac / 690 Vac for 3P and 4P                                                                                   |
| Rated ultimate short-circuit breaking capacity (Icu) | : 1P:<br>50 kA at 220 Vac / 230 Vac / 240 Vac<br>2P:<br>50 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac,<br>40 kA at 500 Vac,<br>8 kA at 660 Vac / 690 Vac,<br>3P and 4P:<br>50 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac,<br>40 kA at 500 Vac,<br>36 kA at 525 Vac,<br>8 kA at 660 Vac / 690 Vac |
| Rated service short-circuit breaking capacity (Ics)  | : 1P:<br>50 kA at 220 Vac / 230 Vac / 240 Vac<br>2P:<br>50 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac,<br>40 kA at 500 Vac,<br>8 kA at 660 Vac / 690 Vac,<br>3P and 4P:<br>50 kA at 380 Vac / 400 Vac / 415 Vac / 440 Vac,<br>40 kA at 500 Vac,<br>36 kA at 525 Vac,<br>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 332141900.

**Additional information**

Nomenclature breakdown:

NM8N – 125 C TM 125 4

a        b   c   d   e   f

a = model name: 'NM8N'

b = frame size: '125'

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: 16 A, 20 A, 25 A, 32 A, 40 A, 50 A, 63 A, 80 A, 100 A, 125 A

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

The referred test reports are 3321419.50, 3321419.51, 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. 33-120615 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)              |
| Plug-in base                 | PIA21-M8 (3P and 4P)              |