

# ATTESTATION OF CONFORMITY

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

For the product: Moulded-case circuit-breaker

Trade name: CHINT

Type/Model: NM8NDC-250B, NM8NDC-250C, NM8NDC-250S, NM8NDC-250Q and  
NM8NDC-250H

Ratings: Ue: 1000 Vdc for 4P, 750 Vdc for 3P, 500 Vdc for 2P, 250 Vdc for 1P  
In: 125 A, 160 A, 180 A, 200 A, 225 A, 250 A  
See annex for further ratings

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

Subject: Type test

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

Remark: This attestation replaces no. 3319343.01A issued on 2020-11-20.

This Attestation is granted on account of an examination by DEKRA, the results of which are laid down in a test reports no. 3321425.50 issued on 2022-03-25, 3321425.51 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 Low voltage directive (LVD) 2014/35/EU.

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 CE marking may be affixed on the product if all relevant and effective EC directives are complied with.  
Wenzhou, Zhejiang, 01 April 2022                      Number: 3321425.01A

DEKRA Testing Services (Zhejiang) Co., Ltd.

Ms J Guo  
Certification Manager

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**Ratings**

|                                                |                                                                                                                                                                                                                                                                                        |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rated insulation voltage (Ui)                  | : 1000 V for main circuit<br>500 V for shunt release and under-voltage 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 under-voltage release (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 current (In)                             | : 125 A, 160 A, 180 A, 200 A, 225 A, 250 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<br>Left / right: 0 mm<br>Up / down: 0 mm                                                                                                                                                                                                                          |
| Reference temperature                          | : 40 °C                                                                                                                                                                                                                                                                                |
| 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                     | : For thermal magnetic type for 2P, 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 2P, 3P and 4P:<br>Ii: (5 / 6 / 7 / 8 / 9 / 10) x In for 180 A - 250 A<br>Ii: (7 / 8 / 9 / 10 / 11 / 12) x In for 125 A - 160 A<br>For thermal magnetic type for 1P:<br>Ii: 10 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 rating - NM8NDC-250B**

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

**Product rating - NM8NDC-250C**

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

**Product rating - NM8NDC-250S**

|                                                      |                                                                                                                |
|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Number of poles                                      | : 1P, 2P, 3P and 4P                                                                                            |
| Rated operational voltage (Ue)                       | : 1000 Vdc for 4P, 750 Vdc for 3P, 500 Vdc for 2P, 250 Vdc for 1P                                              |
| Rated ultimate short-circuit breaking capacity (Icu) | : 50 kA at 1000 Vdc for 4P,<br>50 kA at 750 Vdc for 3P,<br>50 kA at 500 Vdc for 2P,<br>50 kA at 250 Vdc for 1P |
| Rated service short-circuit breaking capacity (Ics)  | : 50 kA at 1000 Vdc for 4P,<br>50 kA at 750 Vdc for 3P,<br>50 kA at 500 Vdc for 2P,<br>50 kA at 250 Vdc for 1P |

**Product rating - NM8NDC-250Q**

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

**Product rating - NM8NDC-250H**

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

## Additional information

NM8N DC – 250 B TM 250 4

a      b      c d e f g

a = model name: 'NM8N'

b = direct current: 'DC'

c = frame size: '250'

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

e = trip unit: '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, '2' means 2P, '1' means 1P

| Accessory type               | Model                             |
|------------------------------|-----------------------------------|
| Auxiliary circuit            | AX21-M8 / AL21-M8 (2P, 3P and 4P) |
| Shunt release                | SHT22-M8 (2P, 3P and 4P)          |
| Under-voltage release        | UVT22-M8 (2P, 3P and 4P)          |
| Electric operating mechanism | MOD22-M8 (3P and 4P)              |
| Rotation handle              | DRH22-M8 (3P and 4P)              |