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-250B, NM8NDC-250C, NM8NDC-250H, NM8NDC-250	Q and
	NM8NDC-250S	

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 31 March 2022 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 33-121517

DEKRA Certification B.V.

B.T.M. Holtus Managing Director

© Integral publication of this certificate is allowed

ACCREDITED BY THE DUTCH ACCREDITATION COUNCIL



F.S. Strikwerda Certification Manager



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SPECIFICATION OF THE CERTIFIED PRODUCT

Product data	
Product	: Moulded-case circuit-breaker
Trade name(s)	: CHINT
Type(s)/model(s)	: NM8NDC-250B, NM8NDC-250C, NM8NDC-250H,
	NM8NDC-250Q and NM8NDC-250S
Rated insulation voltage (Ui)	: 1000 V for main circuit
	500 V for shunt release and under-voltage release for 2P, 3P
	and 4P
	500 V for electric operating mechanism for 3P and 4P
	500 V for auxiliary circuit for 2P, 3P and 4P
Rated impulse withstand voltage	: 8 kV for main circuit
(Uimp)	2,5 kV for shunt release and under-voltage release for 2P, 3P
	and 4P
	6 kV for electric operating mechanism for 3P and 4P
	2,5 kV for auxiliary circuit for 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)	: Suitable
systems	
Suitable for isolation	: Suitable
Selectivity category	: A
Safety distance (screen-circuit	: Front / back: 0 mm
breaker)	Left / right: 0 mm
	Up / down: 0 mm
Reference temperature	: 40 °C
Method of mounting	: fixed
EMC Environment	: A
Tightening torque for terminals Line/load terminal	: 11 Nm for M8
Connection	: Immaterial : 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	: Fixed, trip time at 2 ln: 60 s \leq t \leq 600 s
delay release	
Instantaneous release	: li (instantaneous tripping setting):
	For thermal magnetic type for 2P, 3P and 4P:
	li: (5 / 6 / 7 / 8 / 9 / 10) x ln for ln: 180 A - 250 A
	li: (7 / 8 / 9 / 10 / 11 / 12) x In for In: 125 A - 160 A
	For thermal magnetic type for 1P:
	li: 10 ln
Shunt release	: SHT22-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	: UVT22-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	: MOD22-M8 for 3P and 4P
	AC: 110 V, 220 - 240 V, 380 - 415 V, 50 / 60 Hz
	DC: 24 V, 110 V, 220 V



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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-250B Number of poles Rated operational voltage (Ue) Rated ultimate short-circuit breaking capacity (Icu) Rated service short-circuit breaking capacity (Ics)	 1P, 2P, 3P and 4P 1000 Vdc for 4P, 750 Vdc for 3P, 500 Vdc for 2P, 250 Vdc for 1P 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 25 kA at 1000 Vdc for 4P, 25 kA at 750 Vdc for 3P, 25 kA at 500 Vdc for 2P, 25 kA at 500 Vdc for 3P, 25 kA at 500 Vdc for 2P, 25 kA at 500 Vdc for 2P, 25 kA at 250 Vdc for 1P
Product data – type NM8NDC-250C Number of poles Rated operational voltage (Ue) Rated ultimate short-circuit breaking capacity (Icu) Rated service short-circuit breaking capacity (Ics)	 1P, 2P, 3P and 4P 1000 Vdc for 4P, 750 Vdc for 3P, 500 Vdc for 2P, 250 Vdc for 1P 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 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 36 kA at 500 Vdc for 2P, 36 kA at 250 Vdc for 2P, 36 kA at 250 Vdc for 1P
Product data – type NM8NDC-250H Number of poles Rated operational voltage (Ue) Rated ultimate short-circuit breaking capacity (Icu) Rated service short-circuit breaking capacity (Ics)	 2P, 3P and 4P 1000 Vdc for 4P, 750 Vdc for 3P, 500 Vdc for 2P 100 kA at 1000 Vdc for 4P, 100 kA at 750 Vdc for 3P, 100 kA at 500 Vac for 2P 100 kA at 1000 Vdc for 4P, 100 kA at 750 Vdc for 3P, 100 kA at 500 Vdc for 3P, 100 kA at 500 Vac for 2P
Product data – type NM8NDC-250Q Number of poles Rated operational voltage (Ue) Rated ultimate short-circuit breaking capacity (Icu) Rated service short-circuit breaking capacity (Ics)	 2P, 3P and 4P 1000 Vdc for 4P, 750 Vdc for 3P, 500 Vdc for 2P 70 kA at 1000 Vdc for 4P, 70 kA at 750 Vdc for 3P, 70 kA at 500 Vdc for 2P 70 kA at 1000 Vdc for 4P, 70 kA at 750 Vdc for 3P, 70 kA at 500 Vdc for 3P, 70 kA at 500 Vdc for 2P



Product data – type NM8NDC-250S

Number of poles Rated operational voltage (Ue)

Rated ultimate short-circuit breaking capacity (Icu)

Rated service short-circuit breaking capacity (Ics)

1P, 2P, 3P and 4P
1000 Vdc for 4P, 750 Vdc for 3P, 500 Vdc for 2P, 250 Vdc for 1P
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
50 kA at 1000 Vdc for 4P, 50 kA at 750 Vdc for 3P, 50 kA at 250 Vdc for 2P, 50 kA at 250 Vdc for 4P, 50 kA at 250 Vdc for 2P, 50 kA at 750 Vdc for 3P, 50 kA at 500 Vdc for 2P, 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 332142500.

Additional information

Nomenclature breakdown: 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

The referred test reports are 3321425.50, 3321425.51, 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. 33-116252 which we hereby declare invalid.

Conclusion

The examination proved that all requirements were met.



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Factory location NOARK Electrics (Shanghai) Co.,Ltd. No. 3857, Sixian Road, Songjiang District 201614 Shanghai, China



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