

# CERTIFICATE

Issued to:  
Applicant:  
**Mitsubishi Electric Dalian Industrial Products Co., Ltd.**  
Dongbei 3-5, Dalian Economic & Technical Development Zone  
116600 Dalian Liaoning, China

Licensee:  
**Mitsubishi Electric Dalian Industrial Products Co., Ltd.**  
Dongbei 3-5, Dalian Economic & Technical Development Zone  
116600 Dalian Liaoning, China

Product : Moulded-Case Circuit-Breaker  
Trade name(s) : MITSUBISHI  
Type(s)/model(s) : NFC160-SMXA and NFC250-SMXA

The product and any acceptable variation thereof as specified in the Annex to this certificate and the documents referred to therein.

DEKRA hereby declares that the above-mentioned product has been certified based on:

- a type test according to EN 60947-2:2017, EN 60947-2:2017/A1:2020, IEC 60947-2:2016 and IEC 60947-2:2006/AMD1:2009
- an inspection of the factory location according to CENELEC Operational Document CIG 021
- a DEKRA certification agreement with the number 2225857

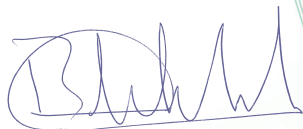
DEKRA hereby grants the right to use the KEMA-KEUR certification mark.

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 8 July 2025 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 33-160209

DEKRA Certification B.V.



B.T.M. Holtus  
Managing Director



David Huang  
Certification Manager

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DUTCH ACCREDITATION  
COUNCIL



**SPECIFICATION OF THE CERTIFIED PRODUCT****Product data**

Product	: Moulded-Case Circuit-Breaker
Trade name(s)	: MITSUBISHI
Type(s)/model(s)	: NFC160-SMXA and NFC250-SMXA
Number of poles	: 3P or 4P (N pole without overcurrent protection)
Rated operational voltage (Ue)	: 230 Vac / 380 Vac / 400 Vac / 415 Vac
Rated insulation voltage (Ui)	: 690 V
Rated impulse withstand voltage (Uimp)	: 8 kV
Rated frequency	: 50 / 60 Hz
Rated service short-circuit breaking capacity (Ics)	: 25 kA at 230 Vac 15 kA at 380 Vac 12,5 kA at 400 / 415 Vac
Rated ultimate short-circuit breaking capacity (Icu)	: 50 kA at 230 Vac 30 kA at 380 Vac 25 kA at 400 / 415 Vac
Individual pole short-circuit (Itr)	: Yes, only suitable for 3P 18 In at 415 Vac
Suitable for isolation	: Suitable
Selectivity category	: A
Details of minimum distance between circuit-breaker and earthed metal parts	: Up/Down: 80 mm, Left/Right: 60 mm, Front/Back: 0 mm
Reference temperature for non-compensated thermal releases	: 40 °C
Method of installation	: Fixed
Electromagnetic compatibility (EMC)	: A and B
Tightening torque for the circuit-breaker terminals	: M8 / 6 Nm
Identification of line and load terminals	: Line and Load are marked
Connection capacity	: Prepared Copper conductor with cable lug
Inverse time delay release	: Thermal type, adjustable, 0,8 In, 1,0 In
Time setting of the inverse time delay release	: Fixed, tripping time at 2 Ir: 60 s to 360 s
Instantaneous release	: Magnetic type, fixed, 2 poles in series: $I_i = 12 I_n$ single pole: 1,2 $I_i$

**Product data – type NFC160-SMXA**

Rated current (In) : 125 A, 140 A, 150 A, 160 A

**Product data – type NFC250-SMXA**

Rated current (In) : 175 A, 200 A, 225 A, 250 A

**TESTS****Test requirements**

EN 60947-2:2017

EN 60947-2:2017/A1:2020

IEC 60947-2:2016

IEC 60947-2:2006/AMD1:2009

**Test result**

The test results are documented in DEKRA test file 333467300.

**Additional information**

The referred test reports are 3317696.50 and 3307578.50 and 3334673.52.

This certificate replaces certificate No. 33-114265 which we hereby declare invalid.

**Conclusion**

The examination has confirmed that all requirements were met.

**Factory location**

Mitsubishi Electric Dalian Industrial Products Co., Ltd.  
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