

# CERTIFICATE

Issued to:  
Applicant:  
**MITSUBISHI ELECTRIC CORPORATION**  
**FUKUYAMA WORKS**  
1-8, MIDORI-MACHI FUKUYAMA-CITY  
HIROSHIMA-PREF, JAPAN

Manufacturer/Licensee:  
**Mitsubishi Electric Low Voltage Equipment**  
**(Xiamen) Co., Ltd**  
2<sup>nd</sup> Floor No. 122-126 (double) Yingyao Road,  
Jimei, Xiamen, China

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

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 EN 60947-2: 2006 + A1: 2009 + A2: 2013; IEC 60947-2: 2006 + A1: 2009 + A2: 2013;
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 2116095

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 of the KEMA-KEUR certification agreement and under the conditions of the KEMA-KEUR certification agreement.

This certificate is issued on: 31 August 2015 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 3307578.01

DEKRA Certification B.V.

drs. G.J. Zoetbrood  
Managing Director

F.S. Strikwerda  
Certification Manager

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ACCREDITED BY THE  
DUTCH ACCREDITATION  
COUNCIL



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

product	: Moulded-Case Circuit-Breaker
trade name(s)	: MITSUBISHI
type(s)	: NFC160-SMXA, NFC250-SMXA
number of poles	: 3P or 4P (N pole does not have protection)
protected poles	: 3
rated operational voltage (Ue)	: 230 Vac / 380 Vac / 400 Vac / 415 Vac
rated insulation voltage (Ui)	: 690 Vac
rated impulse withstand voltage (Uimp)	: 8 kV
rated frequency	: 50/60 Hz
suitable for isolation	: Yes
utilization category	: A
method of mounting	: Fixed
safety distance	: Up/Down: 80 mm, Left/Right: 60 mm, Front/Back: 0 mm
EMC Environment	: A and B
reference temperature	: 40 °C
circuit-breaker for use in IT systems	: Yes, only suitable for 3P 18 In at 415 Vac
circuit-breaker for use on phase-earthed systems	: N/A
rated current (In)	: 125 A, 140 A, 150 A, 160 A (NFC160-SMXA) 175 A, 200 A, 225 A, 250 A (NFC250-SMXA)
rated operational current (Ie)	: 0,8 In or 1 In
conventional thermal current (Ith)	: Equal to In
rated ultimate short-circuit breaking capacity (Icu)	: 50 kA at 230 Vac 30 kA at 380 Vac 25 kA at 400/415 Vac
rated service short-circuit breaking capacity (Ics)	: 25 kA at 230 Vac 15 kA at 380 Vac 12,5 kA at 400/415 Vac
inverse time delay release	: Thermal type, 0,8 In or 1 In
tripping time at 2In	: 60 s to 360 s
instantaneous release	: Magnetic type, fixed, 2 poles in series: $I_i = 12 I_n$ single pole: $1.2 \times 12 I_n$
line/load terminal connection	: Marked Copper conductor with cable lug

**TESTS****Test requirements**

EN 60947-2:2006 + A1:2009 + A2:2013

IEC 60947-2:2006 + A1:2009 + A2:2013

**Test result**

The test results are laid down in DEKRA test file 3307578.01 and test report no. 3307578.50.

**Conclusion**

The examination proved that all test requirements were met.

Tested by : Lucky Fan

A handwritten signature in blue ink that reads 'Lucky Fan'.

Checked by : King Wang

A handwritten signature in blue ink that reads 'King Wang'.**Factory locations**

Mitsubishi Electric Low Voltage Equipment (Xiamen) Co., Ltd

2<sup>nd</sup> Floor No. 122-126 (double) Yingyao Road, Jimei, Xiamen, China