

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
2nd Floor, No.122-126(double), Yingyao Road,
Jimei, Xiamen, China**

Product(s) : Moulded-Case Circuit-Breaker
Trade name(s) : MITSUBISHI
Type(s)/model(s) : NFC100-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 2185553

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: 7 December 2015 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 3307577.01

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)	:	NFC100-SMXA
number of poles	:	2P, 3P, 4P (N pole without protection)
protected pole	:	2 or 3
rated operational voltage (Ue)	:	415 Vac, 400 Vac, 380 Vac, 230 Vac
rated insulation voltage (Ui)	:	690 V
rated impulse withstand voltage (Uimp)	:	8 kV
reference temperature (°C)	:	40 °C
rated tightening torque for terminals (Nm)	:	15 A - 50 A: 2,0 Nm for M5 60 A - 100 A: 6,0 Nm for M8
rated current (In)	:	15 A, 16 A, 20 A, 25 A, 30 A, 32 A, 40 A, 50 A, 60 A, 63 A, 75 A, 80 A, 100 A
rated operational current (Ie)	:	Equal to In
conventional thermal current (Ith)	:	Equal to In
current rating for four-pole circuit-breakers	:	Equal to In
rated frequency	:	50 / 60 Hz
rated ultimate short-circuit breaking capacity (Icu)	:	25 kA at 415 Vac / 400 Vac, 30 kA at 380 Vac, 50 kA at 230 Vac
rated service short-circuit breaking capacity (Ics)	:	50% Icu
suitable for isolation	:	Suitable
utilization category	:	A
safety distance (screen-circuit breaker)	:	Left / Right: 20 mm, Up / Down: 60 mm, Front / Back: 0 mm
instantaneous release	:	Magnetic type, fixed, 15 A - 32 A: $I_i = 500 A$ for 2 phases in series 40 A - 100 A: $I_i = 10 I_n$ for 2 phases in series 1,2 I_i for single pole
time setting of the instantaneous release	:	Fixed
inverse time delay release	:	Thermal type, fixed
time setting of the inverse time delay release	:	Fixed 2In tripping time declared by the manufacturer: 15 A - 32 A: $30 s \leq t \leq 180 s$ 40 A - 100 A: $60 s \leq t \leq 360 s$
method of mounting	:	Fixed
EMC environment	:	A and B
individual pole short-circuit breaking capacity (Isu)	:	N/A
Individual pole short-circuit breaking capacity (I _{IT})	:	Only suitable for 2P and 3P 15 A - 32A: 720 A at 415 Vac, 40 A - 100 A: 15 In at 415 Vac
line/load terminal connection	:	LINE and LOAD are marked Prepared 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 3307577.01 and report 3307577.50.

Conclusion

The examination proved that all test requirements were met.

Tested by : Ivan Wan

A handwritten signature in black ink, appearing to read 'Ivan'.

Checked by : King Wang

A handwritten signature in black ink, appearing to read 'King Wang'.**Factory locations**Mitsubishi Electric Low Voltage Equipment (Xiamen) Co., Ltd
2nd Floor, No.122-126(double), Yingyao Road, Jimei, Xiamen, China