

CERTIFICATE

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

Manufacturer/Licensee:
**MITSUBISHI ELECTRIC CORPORATION
FUKUYAMA WORKS
1-8, MIDORI-MACHI FUKUYAMA-CITY
HIROSHIMA-PREF, JAPAN**

Product(s) : Moulded-Case Circuit-Breaker
Trade name(s) : MITSUBISHI ELECTRIC
Type(s)/model(s) : NF125-SGV, NF125-LGV, NF125-HGV

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: 17 January 2017 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 3310624.02

DEKRA Certification B.V.



drs. G.J. Zoetbrood
Managing Director



F.S. Strikwerda
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 ELECTRIC
type(s)	: NF125-SGV, NF125-LGV, NF125-HGV
number of poles	: 3P or 4P (N pole without protection)
protected pole	: 3
rated operational voltage (Ue)	: 230 Vac, 380 Vac, 400 Vac, 415 Vac, 250 Vdc
rated insulation voltage (Ui)	: 690 V
rated impulse withstand voltage (Uimp)	: 8 kV
reference temperature (°C)	: 40 °C
rated tightening torque for terminals (Nm)	: 6 Nm for M8
rated current (In)	: 20 A, 25 A, 32 A, 40 A, 50 A, 63 A, 80 A, 100 A, 125 A
rated operational current (Ie)	: Equal to Ir
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)	: NF125-SGV: 85 kA at 230 Vac, 36 kA at 380 / 400 / 415 Vac, 20 kA at 250 Vdc; NF125-LGV: 90 kA at 230 Vac, 50 kA at 380 / 400 / 415 Vac, 20 kA at 250 Vdc; NF125-HGV: 100 kA at 230 Vac, 75 kA at 380 / 400 Vac, 70 kA at 415 Vac, 40 kA at 250 Vdc
rated service short-circuit breaking capacity (Ics)	: 100% Icu
suitable for isolation	: Suitable
utilization category	: A
safety distance (screen-circuit breaker)	: NF125-SGV: Left / Right: 50 mm Up / Down: 70 mm Front / Back: 160 mm NF125-LGV / NF125-HGV: Left / Right: 60 mm Up / Down: 80 mm Front / Back: 160 mm

instantaneous release	: Magnetic type, fixed, For $I_n = 20\text{ A}, 25\text{ A}, 32\text{ A}, 40\text{ A}, 50\text{ A}$ $I_i = 600\text{ A}$ for 2 phases in series (AC) $I_i = 900\text{ A}$ for single pole (AC) $I_i = 850\text{ A}$ for 2 phases in series (DC) $I_i = 1275\text{ A}$ for single pole (DC) For $I_n = 63\text{ A}, 80\text{ A}, 100\text{ A}, 125\text{ A}$ $I_i = 10 I_n$ for 2 phases in series (AC) $I_i = 15 I_n$ for single pole (AC) $I_i = 14 I_n$ for 2 phases in series (DC) $I_i = 21 I_n$ for single pole (DC)
inverse time delay release	: Thermal type, adjustable, 20 A: $I_r = 16\text{ A} - 20\text{ A}$ 25 A: $I_r = 20\text{ A} - 25\text{ A}$ 32 A: $I_r = 25\text{ A} - 32\text{ A}$ 40 A: $I_r = 32\text{ A} - 40\text{ A}$ 50 A: $I_r = 35\text{ A} - 50\text{ A}$ 63 A: $I_r = 45\text{ A} - 63\text{ A}$ 80 A: $I_r = 56\text{ A} - 80\text{ A}$ 100 A: $I_r = 70\text{ A} - 100\text{ A}$ 125 A: $I_r = 90\text{ A} - 125\text{ A}$
time setting of the inverse time delay release	: Fixed
method of mounting	: Fixed
EMC environment	: A and B
individual pole short-circuit breaking capacity (I_{su})	: N/A
Individual pole short-circuit breaking capacity (I_{IT})	: Yes (only suitable for 3P) 15 I_n at 415 Vac
line/load terminal connection	: Immaterial 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 3310624.02 and reports 3310624.50, 3302726.50 and also based on CQC CB test certificate CN21072 issued on 2011-07-22 with CQC CB test report C009-CB2010CQC-028675 issued on 2011-06-13.

Remarks

This certificate replaces certificate no. 3303705.03 issued on 23 August 2012.

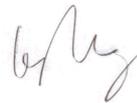
Conclusion

The examination proved that all test requirements were met.

Tested by : CQC and Ivan Wan



Checked by : King Wang

**Factory locations**

Mitsubishi Electric Dalian Industrial Products Co., Ltd

Dongbei 3-5, Dalian Economic & Technical Development Zone, Liaoning Province, P. R. China