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) : NF250-SGV, NF250-LGV, NF250-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: 3310628.01

DEKRA Certification B.V.

drs. G.J. Zoetbrood
Managing Director

F.S. Strikwerda
Certification Manager

ACCREDITED BY THE
DUTCH ACCREDITATION
COUNCIL

PRODUCTS
RvA C 001

KEMA KEUR

SPECIFICATION OF THE CERTIFIED PRODUCT

Product data

product	:	Moulded-Case Circuit-Breaker
trade name(s)	:	MITSUBISHI ELECTRIC
type(s)	:	NF250-SGV, NF250-LGV, NF250-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)	:	160 A, 200 A, 250 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)	:	NF250-SGV: 85 kA at 230 Vac, 36 kA at 380 / 400 / 415 Vac, 20 kA at 250 Vdc; NF250-LGV: 90 kA at 230 Vac, 50 kA at 380 / 400 / 415 Vac, 20 kA at 250 Vdc; NF250-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)	:	NF250-SGV: Left / Right: 50 mm Up / Down: 70 mm Front / Back: 160 mm NF250-LGV / NF250-HGV: Left / Right: 60 mm Up / Down: 80 mm Front / Back: 160 mm

instantaneous release	:	Magnetic type, fixed, Ii = 10 In for 2 phases in series (AC) Ii = 15 In for single pole (AC) Ii = 14 In for 2 phases in series (DC) Ii = 21 In for single pole (DC)
inverse time delay release	:	Thermal type, adjustable, 160 A: Ir = 125 A - 160 A 200 A: Ir = 140 A - 200 A 250 A: Ir = 175 A - 250 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 (Isu)	:	N/A
Individual pole short-circuit breaking capacity (I_{IT})	:	Yes (only suitable for 3P) 15 In at 415 Vac
line/load terminal	:	Immaterial
connection	:	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

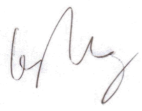
Test result
The test results are laid down in DEKRA test file 3310628.01 and reports 3310628.50, 3302725.50 and also based on CQC CB test certificate CN20815 issued on 2011-07-05 with CQC CB test report C009-CB2010CQC-028669 issued on 2011-05-18.

Remarks
This certificate replaces certificate no. 3303705.02 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 CORPORATION FUKUYAMA WORKS
1-8, MIDORI-MACHI FUKUYAMA-CITY HIROSHIMA-PREF, JAPAN