

CERTIFICATE

Issued to:
Applicant:
Mitsubishi Electric Corporation Fukuyama Works
1-8,MIDORI-MACHI FUKUYAMA-CITY
Hiroshima-Pref 720-8647, Japan

Licensee:
Mitsubishi Electric Corporation Fukuyama Works
1-8,MIDORI-MACHI FUKUYAMA-CITY
Hiroshima-Pref 720-8647, Japan

Product : Moulded-Case Circuit-Breaker
Trade name(s) : MITSUBISHI ELECTRIC
Type(s)/model(s) : NF250-HV and NF250-SV

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(s) EN 60947-2:2017, EN 60947-2:2017/A1:2020, IEC 60947-2:2016 and IEC 60947-2:2016/A1:2019
- an inspection of the factory location according to CENELEC Operational Document CIG 021
- a DEKRA 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 and under the conditions of the KEMA-KEUR certification agreement.

This certificate is issued on 10 January 2022 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 33-120201

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



H.L. Schendstok
Certification Manager

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DUTCH ACCREDITATION
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SPECIFICATION OF THE CERTIFIED PRODUCT
Product data

Product	: Moulded-Case Circuit-Breaker
Trade name(s)	: MITSUBISHI ELECTRIC
Type(s)/model(s)	: NF250-HV and NF250-SV
Number of poles	: 3P and 4P (N pole without overcurrent 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
Rated current (In)	: 100 A, 125 A, 150 A, 175 A, 200 A, 225 A, 250 A
Conventional thermal current (Ith)	: Equal to In
Current rating for four-pole circuit-breakers	: Equal to In
Rated frequency	: 50 / 60 Hz
Reference temperature	: 40 °C
Individual pole short-circuit breaking capacity (Iit)	: Yes (only suitable for 3P) For 100 - 225 A, 21 In at 415 Vac, For 250 A, 18 In at 415 Vac
Suitable for isolation	: Suitable
Selectivity category	: A
Instantaneous release	: Magnetic type, fixed, 100 - 225 A: li = 14 In for 2 phases in series (AC) 100 - 225 A: li = 21 In for single pole (AC) 100 - 225 A: li = 19,6 In for 2 phases in series (DC) 100 - 225 A: li = 29,4 In for single pole (DC) 250 A: li = 12 In for 2 phases in series (AC) 250 A: li = 18 In for single pole (AC) 250 A: li = 16,8 In for 2 phases in series (DC) 250 A: li = 25,2 In for single pole (DC)
Time setting of the instantaneous release	: Fixed
Inverse time delay release	: Thermal type, Fixed
Time setting of the inverse time delay release	: Fixed
Method of mounting	: Fixed
EMC environment	: A and B
Rated tightening torque for terminals	: 6 Nm for M8
Line/load terminal	: Immaterial
Connection	: Copper conductor with cable lug

Product data – type NF250-HV

Rated service short-circuit breaking capacity (Ics)	: 100 kA at 230 Vac, 75 kA at 380 / 400 Vac, 70 kA at 415 Vac, 40 kA at 250 Vdc
Rated ultimate short-circuit breaking capacity (Icu)	: 100 kA at 230 Vac, 75 kA at 380 / 400 Vac, 70 kA at 415 Vac, 40 kA at 250 Vdc
Safety distance (screen-circuit breaker)	: Front / Back: 160 mm, Left / Right: 60 mm, Up / Down: 80 mm

Product data – type NF250-SV

Rated service short-circuit breaking capacity (Ics)	: 85 kA at 230 Vac, 36 kA at 380 / 400 / 415 Vac, 20 kA at 250 Vdc;
Rated ultimate short-circuit breaking capacity (Icu)	: 85 kA at 230 Vac, 36 kA at 380 / 400 / 415 Vac, 20 kA at 250 Vdc;
Safety distance (screen-circuit breaker)	: Front / Back: 160 mm, Left / Right: 50 mm, Up / Down: 80 mm

TESTS**Test requirements**

EN 60947-2:2017
EN 60947-2:2017/A1:2020
IEC 60947-2:2016
IEC 60947-2:2016/A1:2019

Test result

The test results are laid down in DEKRA test file 332208900.

Additional information

The referred test reports no. 3322089.50, 3310626.50, 3303049.50 and also based on CQC CB test certificate no. CN21609 issued on 2011-09-01 with CQC CB test report no. C009-CB2010CQC-030869 issued on 2011-07-11 and CQC CB test certificate no. CN21616 issued on 2011-09-01 with CQC CB test report no. C009-CB2010CQC-030868 issued on 2011-07-11.

Conclusion

The examination proved that all requirements were met.

Factory location

Mitsubishi Electric Corporation Fukuyama Works
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