

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

Manufacturer:
Mitsubishi Electric Dalian Industrial Products Co.
Ltd.
Dongbei 3-5 Dalian Economic
& Technical Development Zone
116600 Dalian City Liaoning Prov., China

Product : Moulded-Case Circuit-Breaker
Trade name(s) : MITSUBISHI
Type(s)/model(s) : NF250-HXV, NF250-LXV and NF250-SXV

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, EN 60947-2:2006/A1:2009 and EN 60947-2:2006/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 12 October 2017 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 33-101551

DEKRA Certification B.V.



drs. G.J. Zoetbrood
Managing Director



Rosa Zhou
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
Type(s)/model(s)	: NF250-HXV, NF250-LXV and NF250-SXV
Number of poles	: 2P, 3P, 4P (3P+ N, N without protection)
Protected pole	: 2 or 3
Rated operational voltage (Ue)	: 230 Vac / 380 Vac / 400 Vac / 415 Vac, 250 Vdc (2P in series)
Rated insulation voltage (Ui)	: 690 V
Rated impulse withstand voltage (Uimp)	: 8 kV
Reference temperature (°C)	: 40 °C
Rated current (In)	: 100 A, 125 A, 150 A, 160 A, 175 A, 200 A, 225 A, 250 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
Suitable for isolation	: Suitable
Utilization category	: A
Instantaneous release	: Magnetic type, fixed, 2 poles in series: 250 A: li = 12 In for AC 250 A: li = 16,8 In for DC 100 A - 225 A: li = 14 In for AC 100 A - 225 A: li = 19,6 In for DC single pole: 250 A: li = 18 In for AC 250 A: li = 25,2 In for DC 100 A - 225 A: li = 21 In for AC 100 A - 225 A: li = 29,4 In for DC
Inverse time delay release	: Fixed
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 for 2P, 3P), 4,5 kA at 415 Vac
Line/load terminal	: Immaterial
Connection	: Prepared copper conductor with cable lug

Product data – type NF250-HXV

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

Product data – type NF250-LXV

Rated ultimate short-circuit breaking capacity (Icu) : 90 kA at 230 Vac,
50 kA at 380 Vac / 400 Vac / 415 Vac,
20 kA at 250 Vdc

Rated service short-circuit breaking capacity (Ics) : 100% Icu

Safety distance (screen-circuit breaker) : Left / Right: 60 mm
Up / Down: 80 mm
Front / Back: 160 mm

Product data – type NF250-SXV

Rated ultimate short-circuit breaking capacity (Icu) : 85 kA at 230 Vac,
36 kA at 380 Vac / 400 Vac / 415 Vac,
20 kA at 250 Vdc

Rated service short-circuit breaking capacity (Ics) : 100% Icu

Safety distance (screen-circuit breaker) : Left / Right: 50 mm
Up / Down: 70 mm
Front / Back: 160 mm

TESTS**Test requirements**

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

Test result

The test results are laid down in DEKRA test file 331241900.

Additional Information

The referred test reports are 3312419.50, 3306348.50 and also based on CQC CB test certificate CN24916 issued on 2012-12-04 with CQC CB test report C009-CB2012CQC-040514 issued on 2012-10-11.

The product also complies with IEC 60947-2:2006 + A1:2009 + A2:2013.

This certificate replaces certificate No. 3306348.02 which we herewith declare invalid.

Conclusion

The examination proved that all requirements were met.

Factory location

Mitsubishi Electric Dalian Industrial Products Co. Ltd.
Dongbei 3-5 Dalian Economic
& Technical Development Zone
116600 Dalian City Liaoning Prov., China