

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) : NF800-CEW and NF800-HEW

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 60947-2:2017
- 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 16 May 2018 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 33-103723

DEKRA Certification B.V.



drs. G.J. Zoetbrood
Managing Director



Kreny Lin
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)/model(s)	: NF800-CEW and NF800-HEW
Rated insulation voltage (Ui)	: 690 V
Rated impulse withstand voltage (Uimp)	: 8 kV
Reference temperature (°C)	: Independent
Rated current (In)	: 800 A (400 - 800 A adjustable)
Conventional thermal current (Ith)	: Equal to In
Rated frequency	: 50 / 60 Hz
Suitable for isolation	: Suitable
Selectivity category	: B
Safety distance (screen-circuit breaker)	: Left / Right: 100 mm Up / Down: 100 mm Front / Back: 170 mm
Instantaneous release	: li (instantaneous tripping setting): Electronic type, adjustable, (4 / 6 / 8 / 10 / 12) x 800 A
Short time delay release	: Isd (short time delay tripping setting): Electronic type, adjustable, (2 / 2,5 / 3 / 3,5 / 4 / 5 / 6 / 7 / 8 / 10) x In for In = 400 - 700 A (2 / 2,5 / 3 / 3,5 / 4 / 5 / 6 / 7 / 8 / 10) x Ir for In = 800 A
Time setting of the short time delay release	: tsd (short time delay tripping setting): 0,06 s - 0,3 s (0,06 / 0,1 / 0,2 / 0,3 s) 0,06 s, with tolerance of ± 0,02 s 0,1 s, with tolerance of ± 0,03 s 0,2 s, with tolerance of ± 0,04 s 0,3 s, with tolerance of ± 0,06 s
Inverse time delay release	: Ir (inverse time delay tripping setting): Electronic type, adjustable, In for In = 400 / 450 / 500 / 600 / 700 A (0,5 / 0,6 / 0,7 / 0,8 / 0,9 / 1) x In for In = 800 A
Time setting of the inverse time delay release	: tr (inverse time delay tripping setting): 12 s - 150 s (12 / 60 / 100 / 150 s), with tolerance of ± 20% (at 2 Ir) 2Ir tripping time declared by the manufacturer: when tr = 12 s: 12 s ± 20% when tr = 60 s: 60 s ± 20% when tr = 100 s: 100 s ± 20% when tr = 150 s: 150 s ± 20%
Method of mounting	: Fixed
Degree of protection	: IP20 (only from front side)
EMC environment	: A
Rated tightening torque for terminals (Nm)	: 50 Nm for M10
Circuit-breaker for use in IT systems	: Yes, 12 In at 415 Vac
Line/load terminal Connection	: Immaterial Prepared copper conductor with cable lug

Product data – type NF800-CEW

Number of poles	: 3P
Protected pole	: 3
Rated operational voltage (Ue)	: 415 / 400 Vac, 380 Vac, 230 / 200 Vac
Rated ultimate short-circuit breaking capacity (Icu)	: 36 kA at 415 / 400 Vac, 40 kA at 380 Vac 50 kA at 230 / 200 Vac

Rated service short-circuit breaking capacity (Ics) : 50% Icu
Rated short-time withstand current (Icw) : 9,6 kA / 0,25 s

Product data – type NF800-HEW

Number of poles : 3P, 4P (N pole without protection)
Protected pole : 3
Rated operational voltage (Ue) : 415 / 400 / 380 Vac, 230 / 200 Vac
Current rating for four-pole circuit-breakers : Equal to In
Rated ultimate short-circuit breaking capacity (Icu) : 70 kA at 415 / 400 / 380 Vac
100 kA at 230 / 200 Vac
Rated service short-circuit breaking capacity (Ics) : 100% Icu
Rated short-time withstand current (Icw) : 9,6 kA / 0,25 s

TESTS**Test requirements**

EN 60947-2:2017

Test result

The test results are laid down in DEKRA test file 331314700.

Additional information

The referred test reports are 3313147.50 and also based on CQC CB test certificate CN42483 issued on 2018-01-25 with CQC CB test report 00901-CB2017CQC-074711 issued on 2017-12-11.

The product also complies with IEC 60947-2:2016.

Conclusion

The examination proved that all requirements were met.

Factory location

Mitsubishi Electric Corporation Fukuyama Works
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