

# TYPE APPROVAL CERTIFICATE

Certificate no.:  
**TAE00001C5**  
Revision No:  
**2**

**This is to certify:**  
**that the Circuit Breaker**

with type designation(s)  
**NF63CV to NF250-UV**

issued to

**Mitsubishi Electric Corporation Fukuyama Works**  
**Fukuyama City, HIROSHIMA, Japan**

is found to comply with

**DNV rules for classification – Ships, offshore units, and high speed and light craft**

## Application:

**Products approved by this certificate are accepted for installation on all vessels classed by DNV .**

**Rated voltage (V) AC240(DC125)/AC690(DC250)**  
**Rated current (A) 3 to 250**

Issued at **Høvik** on **2026-01-22**

This Certificate is valid until **2030-11-07**.

DNV local unit: **Japan CMC**

Approval Engineer: **Qiang William Guo**



for **DNV**

This document has been digitally signed and will  
therefore not have handwritten signature

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.  
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.

**Product description**

Type	Number of poles	Rated voltage (V)	Current rating at 45°C (A)	Rated frequency AC (Hz)	Breaking current rms. (KA) Icu/Ics	Making current (peak asymmetrical) (KA)	Power factor or Time constant
NF63-CV	2 and 3	AC500	3-63	50-60	2.5/2/5	3.8	0.9
		AC450			2.5/2.5	3.8	0.9
		AC240			7.5/7.5	14.4	0.5
		DC250			2.5/2.5	2.5	5ms
		DC125			5/5	5.0	5ms
NF125-CVF	2 and 3	AC500	10-50	50-60	7.5/4	15.0	0.5/0.8
		AC450			10/5	20.0	0.5/0.7
		AC240			25/19	53.4	0.25/0.3
		DC250			7.5/4	7.5	5ms
NF125-CVF	2 and 3	AC500	60-100	50-60	7.5/4	15.0	0.5/0.8
		AC450			10/5	20.0	0.5/0.7
		AC240			30/15	69.0	0.25/0.3
		DC250			7.5/4	7.5	5ms
NF125-CV	2 and 3	AC500	50-125	50-60	7.5/4	15.0	0.5/0.8
		AC450			10/5	20.0	0.5/0.7
		AC240			30/15	69.0	0.25/0.3
		DC250			7.5/4	7.5	5ms
NF250-CV	2 and 3	AC500	125-250	50-60	10/8	20.5	0.5
		AC450			15/12	31.0	0.3
		AC240			36/27	78.6	0.25
		DC250			15/12	15	10ms
NF32-SV	2 and 3	AC500	3-32	50-60	2.5/2.5	3.8	0.9
		AC450			2.5/2.5	3.8	0.9
		AC240			7.5/7.5	14.4	0.5
		DC250			2.5/2.5	2.5	5ms
		DC125			5/5	5.0	5ms
NF63-SV	2 and 3	AC500	3-63	50-60	7.5/7.5	15	0.5
		AC450			7.5/7.5	15	0.5
		AC240			15/15	30.7	0.3
		DC250			7.5/7.5	7.5	5ms
NF125-SV	2 and 3	AC690	12.5-125	50-60	8/8	15.5	0.5
		AC500			18/18	36	0.3
		AC450			25/25	60.1	0.25
		AC240			50/50	110	0.25
		DC250			40/40	40	15ms
NF250-SV	2 and 3	AC690	125-250	50-60	8/8	15.5	0.5
		AC500			30/30	63	0.25
		AC450			36/36	76.8	0.25
		AC240			85/85	206	0.2
		DC250			20/20	20	10ms
NF63-HRV	2 and 3	AC690	15-50	50-60	2.5/1	3.8	0.9/0.95
		AC500			20/10	40	0.3/0.5
		AC450			30/15	73.3	0.25/0.3
		AC240			85/43	206	0.2/0.25
		DC250			40/20	40	15ms/10ms
NF63-HV	2 and 3	AC690	10-63	50-60	2.5/2.5	3.8	0.9
		AC500			7.5/7.5	15	0.5
		AC450			10/8	20.0	0.5
		AC240			25/19	53.4	0.25/0.3
		DC250			7.5/7.5	7.5	5ms

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NF125-HV	2 and 3	AC690 AC500 AC450 AC240	15-125	50-60	10/8 30/23 50/38 100/75	19.9 63 115 234	0.5 0.25 0.25 0.2
NF250-HV	2 and 3	AC690 AC500 AC450 AC240 DC250	125-250	50-60	10/8 50/38 65/65 100/100 40/40	19.9 115 144 234 40	0.5 0.25 0.2 0.2 15ms
NF125-RV	2 and 3	AC450 AC240	15-125	50-60	125/125 150/150	284 354	0.2 0.2
NF250-RV	2 and 3	AC450 AC240	125-250	50-60	125/125 150/150	284 354	0.2 0.2
NF125-UV	2 and 3	AC690 AC500 AC450 AC240	15-125	50-60	10/10 200/200 200/200 200/200	19.9 498 498 498	0.5 0.2 0.2 0.2
NF250-UV	2 and 3	AC690 AC500 AC450 AC240	125-250	50-60	15/15 200/200 200/200 200/200	31.5 498 498 498	0.3 0.2 0.2 0.2

### Application/Limitation

The instruction manual from maker shall be observed and followed.

Refer to IEC 60947-2

Utilization Category	A
Pollution degree	3

Environmental location class according to DNV-CG-0339 Aug.2021

Temperature class	B
Vibration class	A
Humidity class	B

### Type Approval documentation

- Booklet for "Information for Application" dated 2010-11-25
  - Letter "Subject: Application for extension NF125-CVF" dated 2020-06-10.
  - Specification of circuit-breakers
  - Information concerning to outline dimensions
  - Ratings of circuit breakers/internal accessories
  - Constructional details
  - Sectional view of circuit breakers
  - Parts list of circuit breaker
- Booklet for "Type Test Data" after IEC 60947-2 dated 2010-11-25
  - NF32-SV, NF63-CV, NF63-SV, NF63-HV, NF63-HRV, NF125-CVF, NF125-CV, NF125-SV, NF125-HV, NF250-CV, NF250-SV, NF250-HV, NF125-RV, NF250-RV, NF125-UV and NF250-UV.

## Tests carried out

IEC 60947-1, IEC 60947-2 Ed.4.1. Test sequence I,II,III and Annex H.  
Environmental tests (Vibration and Damp heat) in accordance with DNV-CG-0339 Aug.2021

## Marking of product

MITSUBISHI – Type designation – Electrical data

## Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Routine tests (RT) checked (if not available tests according to RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Assessment to be performed at 2 and 3.5 year and at renewal.

END OF CERTIFICATE