



Lloyd's
Register

Type Approval Certificate Extension

This is to certify that Certificate No. 99/10008(E4) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER	Mitsubishi Electric Corporation
PLACE OF PRODUCTION	Fukuyama Works 1-8, Midorimachi, Fukuyama-city, Hiroshima-pref., 720-8647 Japan
DESCRIPTION	Molded case circuit breakers
TYPE	NF400-CW, NF400-SW, NF400-CEW, NF400-SEW, NF400-HEW, NF400-REW, NF400-UEW, NF630-CW, NF630-SW, NF630-CEW NF630-SEW, NF630-HEW, NF630-REW, , NF800-CEW, NF800-SEW, NF800-HEW, NF800-REW, NF1000-SEW, NF1250-SEW
APPLICATION	Protection and switching of distribution circuits for marine and offshore applications
SPECIFIED STANDARD	IEC60947-2: 2016

Certificate No.	99/10008(E5)
Issue Date	8 June 2019
Expiry Date	7 June 2024
Sheet	1 of 5



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RATINGS

Alternating Current

Type	Current Rating at 45°C (A)	Rated Voltage (V)	Breaking current (r.m.s.) (kA) Icu/Ics	Making current (peak asymmetrical) (kA)	Power factor Ice/Ics	Over-current release (See Note)	Standard
NF400-CW	250, 300 350, 400	230 450	50/25 25/13	105 52.5	0.25/0.25 0.25/0.3	(1)	IEC60947-2 Utilization Category A
NF400-SW	250, 300 350, 400	230 450 450	85/85 42/42 50/38	187 88.2 105	0.2/0.2 0.25/0.25 0.25/0.25		
NF400-CEW	200-400	230 450	50/25 25/13	105 52.5	0.25/0.25 0.25/0.3	(2)	IEC60947-2 Utilization Category B
NF400-SEW	200-400	230 450 450	85/85 42/42 50/38	187 88.2 105	0.2/0.2 0.25/0.25 0.25/0.25		
NF400-HEW	200-400	230 450	100/100 65/65	220 143	0.2/0.2 0.2/0.2		
NF400-REW	200-400	230 450	150/75 125/63	330 275	0.2/0.2 0.2/0.2		
NF400-UW	200-400	230 450	200/200 200/200	440 440	0.2/0.2 0.2/0.2	(2)	IEC60947-2 Utilization Category B

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LR031.1.2016.06



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RATINGS (Continued)

Type	Current Rating at 45°C (A)	Rated Voltage (V)	Breaking current (r.m.s.) (kA) Icu/Ics	Making current (peak asymmetrical) (kA)	Power factor Ice/Ics	Over-current release (See Note)	Standard
NF630-CW	500,600,630	230 450	50/25 36/18	105 75.6	0.25/0.25 0.25/0.3	(1)	IEC60947-2 Utilization Category A
NF630-SW	500,600,630	230 450 450	85/85 42/42 50/38	187 88.2 105	0.2/0.2 0.25/0.25 0.25/0.25		
NF630-SEW	300-630	230 450 450	85/85 42/42 50/38	187 88.2 105	0.2/0.2 0.25/0.25 0.25/0.25	(2)	IEC60947-2 Utilization Category B
NF630-HEW	300-630	230 450	100/100 65/65	220 143	0.2/0.2 0.2/0.2		
NF630-REW	300-630	230 450	150/75 125/63	330 275	0.2/0.2 0.2/0.2		
NF630-CEW	300-630	230 450	50/25 36/18	105 75.6	0.25/0.25 0.25/0.3		

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RATINGS (Continued)

Type	Current Rating at 45°C (A)	Rated Voltage (V)	Breaking current (r.m.s.) (kA) Icu/Ics	Making current (peak asymmetrical) (kA)	Power factor Ice/Ics	Over-current release (See Note)	Standard
NF800-CEW	400-800	230 450	50/25 36/18	105 75.6	0.25/0.25 0.25/0.3	(2)	IEC60947-2 Utilization Category B
NF800-SEW	400-800	230 450 450	85/85 42/42 50/38	187 88.2 105	0.2/0.2 0.25/0.25 0.25/0.25		
NF800-HEW	400-800	230 450	100/100 65/65	220 143	0.2/0.2 0.2/0.2		
NF800-REW	400-800	230 450	150/75 125/63	330 275	0.2/0.2 0.2/0.2		
NF1000-SEW	500-1000	230 450	125/63 85/43	275 187	0.2/0.2 0.2/0.25		
NF1250-SEW	600-1250	230 450	125/63 85/43	275 187	0.2/0.2 0.2/0.25		

- Note: (1) Overload : Thermal
Short circuit: Magnetic
- (2) Solid state over current release, adjustable
Inverse-time delay release
Short-time delay release
Instantaneous release

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"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register Group Limited of any modification or changes to the equipment in order to obtain a valid certificate."

The attached Design Appraisal Document No. 99/10008(E5) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 99/10008(E4) to which this extension should be attached.

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