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Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	Mitsubishi Electric Corporation, Fukuyama Works					
Address	1-8 Midorimachi, Fukuyama-city, 720-8647, Japan					
Place of Production	Mitsubishi Electric Corporation, Fukuyama Works					
	1-8 Midorimachi, Fukuyama-city, 720-8647, Japan					
Туре	Circuit Breakers (Non Env Tested)					
Description	Molded Case Circuit Breakers					
Trade Name	Moulded Case Circuit Breakers Type NF Series (See Appendix for details)					
Application	Protection and switching of distribution circuits for marine and offshore applications					
Specified Standard	IEC60947-2:2016+AMD1:2019					
Ratings	See Appendix for details					

Sachie Fujii

71 Fenchurch Street, London, EC3M 4BS, UnitedElectrical & Control - Senior Specialist toKingdomA member of the Lloyd's Register group

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Type Approval Certificate

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 Ltd of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: 99/10008(E5)

The Design Appraisal Document LR2460940TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

<u>Appendix</u>

Ratings

Tara	Constant	Datad	Buckling	Malling.	David	0	Characterial
Туре	Current	Rated	Breaking	Making	Power	Over-	Standard
	Rating at	Voltage	current	current	factor	current release	
	45°C (A)	(V)	(r.m.s.)	(peak	lce/lcs	(See	
			(kA) lcu/lcs	asymmetrical) (kA)		Note)	
NF400-CW	250, 300	220	50/25	105	0.25/0.25	Note)	
NF400-CW		230 450	25/13	52.5	0.25/0.25	(1)	IEC60947-2
	350,400		'		'	(1)	Utilization
NF400-SW	250, 300	230	85/85	187	0.2/0.2		
	350, 400	450	42/42	88.2	0.25/0.25		Category A
		450	50/38	105	0.25/0.25		
NF400-CEW	200-400	230	50/25	105	0.25/0.25	(2)	
		450	25/13	52.5	0.25/0.3	(2)	IEC60947-2
NF400-SEW	200-400	230	85/85	187	0.2/0.2		Utilization
		450	42/42	88.2	0.25/0.25		Category B
		450	50/38	105	0.25/0.25		
NF400-HEW	200-400	230	100/100	220	0.2/0.2		
		450	65/65	143	0.2/0.2		
NF400-REW	200-400	230	150/75	330	0.2/0.2		
		450	125/63	275	0.2/0.2		
NF400-UEW	200-400	230	200/200	440	0.2/0.2		IEC60947-2
		450	200/200	440	0.2/0.2	(2)	Utilization
				-	,	()	Category B
NF630-CW	500,600,	230	50/25	105	0.25/0.25		
	630	450	36/18	75.6	0.25/0.3	(1)	IEC60947-2
NF630-SW	500,600,	230	85/85	187	0.2/0.2		Utilization
	630	450	42/42	88.2	0.25/0.25		Category A
		450	50/38	105	0.25/0.25		
NF630-SEW	300-630	230	85/85	187	0.2/0.2		
		450	42/42	88.2	0.25/0.25	(2)	IEC60947-2
		450	50/38	105	0.25/0.25	~ /	Utilization
NF630-HEW	300-630	230	100/100	220	0.2/0.2	1	Category B
		450	65/65	143	0.2/0.2		
NF630-REW	300-630	230	150/75	330	0.2/0.2	1	
	500 050	450	125/63	275	0.2/0.2		
NF630-CEW	300-630	230	50/25	105	0.25/0.25	4	
INFOSU-CEVV	300-030	230 450	36/18	75.6	0.25/0.25		
		450	20/10	0.01	0.25/0.5		

Alternating Current



Туре	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
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		Utilization Category B
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
Solid state over current release, adjustable Inverse-time delay release
Short-time delay release
Instantaneous release

-End of Appendix-