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Certificate No: LR21223044TA Issue Date: 28/02/2021 Expiry Date: 27/02/2026

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

Address 1-8 Midorimachi, Fukuyama-shi, Hiroshima-ken, 720-8647

Place of Production Mitsubishi Electric Corporation

1-8 Midorimachi, Fukuyama-shi, Hiroshima-ken, 720-8647

Type Circuit Breakers (Env Tested)

Description Molded case circuit breakers

Trade Name See Appendix for details

Application Marine and offshore applications for use in environmental categories ENV2 as

defined in LR Type Approval System Test Specification No. 1-2020 including Notice No.1 for the specification where the Test Specification is satisfactory for

the intended operation. (EMC test is not applicable.)

Specified Standard IEC60947-2:Edition 5.0

Ratings See Appendix for details

Sachie Fujii

Senior Surveyor to Lloyd's Register Group Ltd A member of the Lloyd's Register group

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

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

Previous Version: 11/10014(E1)

The Design Appraisal Document LR21223044TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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Appendix

Trade Name & Ratings

Туре	Current	Rated	Breaking	Making	Power	Over-	Standard
	rating at	voltage	current	current	factor or	current	
	45°C	(V)	(RMS)	(peak	Time	release	
	(A)		(kA)	asym-	constant	(See note)	
			lcu/lcs	metrical)			
				(kA)			
NF63-CV	3-63	AC500	2.5/2.5	3.8	0.9	Thermal	IEC60947-2
		AC450	2.5/2.5	3.8	0.9	and	Utilization
		AC240	7.5/7.5	14.4	0.5	Magnetic	category:A
		DC250	2.5/2.5	2.5	5ms		Pulution
		DC125	5/5	5.0	5ms		degree:3
NF125-CVF	60-100	AC500	7.5/4	15.0	0.5/0.8		Suitable for
		AC450	10/5	20.0	0.5/0.7		isolation
		AC240	30/15	69.0	0.25/0.3		
		DC250	7.5/4	7.5	5ms		
NF125-CV	50-125	AC500	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	125-250	AC500	10/8	20.5	0.5		
		AC450	15/12	31	0.3		
		AC240	36/27	78.6	0.25		
		DC250	15/12	15	10ms		
NF32-SV	3-32	AC500	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		

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Trade Name & Ratings (Continued)

Туре	Current	Rated	Breaking	Making	Power	Over-	Standard
	rating at	voltage	current	current	factor or	current	
	45°C	(V)	(RMS)	(peak	Time	release	
	(A)		(kA)	asym-	constant	(See note)	
			lcu/lcs	metrical)			
				(kA)			
NF63-SV	3-63	AC500	7.5/7.5	15	0.5	Thermal	IEC60947-2
		AC450	7.5/7.5	15	0.5	and	Utilization
		AC240	15/15	30.7	0.3	Magnetic	category:A
		DC250	7.5/7.5	7.5	5ms		Pulution
NF125-SV	12.5-125	AC690	8/8	15.5	0.5		degree:3
		AC500	18/18	36	0.3		Suitable for
		AC450	25/25	60.1	0.25		isolation
		AC240	50/50	110	0.25		
		DC250	40/40	40	15ms		
NF250-SV	125-250	AC690	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	15-50	AC690	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	15/10ms		
NF63-HV	10-63	AC690	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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Trade Name & Ratings (Continued)

Туре	Current	Rated	Breaking	Making	Power	Over-	Standard
	rating at	voltage	current	current	factor or	current	
	45 ℃	(V)	(RMS)	(peak	Time	release	
	(A)		(kA)	asym-	constant	(See note)	
			lcu/lcs	metrical)			
				(kA)			
NF125-HV	15-125	AC690	10/8	19.9	0.5	Thermal	IEC60947-2
		AC500	30/23	63	0.25	and	Utilization
		AC450	50/38	115	0.25	Magnetic	category:A
		AC240	100/75	234	0.2		Pulution
NF250-HV	125-250	AC690	10/8	19.9	0.5		degree:3
		AC500	50/38	115	0.25		Suitable for
		AC450	65/65	144	0.2		isolation
		AC240	100/100	234	0.2		
		DC250	40/40	40	15ms		
NF125-RV	15-125	AC450	125/125	284	0.2		
		AC240	150/150	354	0.2		
NF250-RV	125-250	AC450	125/125	284	0.2		
		AC240	150/150	354	0.2		
NF125-UV	15-125	AC690	10/10	19.9	0.5		
		AC500	200/200	498	0.2		
		AC450	200/200	498	0.2		
		AC240	200/200	498	0.2		
NF250-UV	125-250	AC690	15/15	31.5	0.3		
		AC500	200/200	498	0.2		
		AC450	200/200	498	0.2		
		AC240	200/200	498	0.2		

-End of Appendix-

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