Certificate No: LR23373836TA-01
Issue Date: 30/01/2025
Expiry Date: 02/01/2029

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	**Schneider Electric Industries SAS**
Address	35 RUE JOSEPH MONIER, RUEIL MALMAISON, 92500, France
Place of Production	Schneider (Beijing) Low Voltage Co., Ltd. No. 2 Liang Shui He 2nd Street, Beijing Economic Technological Development, Area, Beijing, 100176, China
Place of Production	Schneider Electric Industries Polska Sp. z o.o. ul. Mostowa 19, Bukowno, 32-332, Poland
Place of Production	SCHNEIDER ELECTRIC INDUSTRIE ITALIA S.p.A Corso Italia 115, Casavatore, 80020, Italy
Type	Molded Case Circuit Breakers
Description	Low Voltage molded-case circuit-breaker, 3 and 4 pole, equipped with Thermal Magnetic (TMD) or MicroLogic trip units ComPacT NSX100-250 types B, F, N, H, S, L, R, HB1, HB2 ComPacT NSX400-630 types F, N, H, S, L, R, HB1, HB2 NSX100-250: TMD, MicroLogic 2.2, 5.2, 6.2 trip units NSX400-630: MicroLogic 1.3, 2.3, 5.3, 6.3 trip units For detailed product description, pls. refer to appendix.

Thorsten Wolff

Electrical & Control - Senior Specialist to
Lloyd's Register EMEA
A member of the Lloyd's Register group

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

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Type Approval Certificate

Trade Name	ComPacT NSX100-630
Application	Marine, Offshore and Industrial applications for use in environmental categories ENV1, ENV2 and ENV3, as defined in Lloyd's Register Type Approval System, Test Specification Number 1 – December 2021. Suitable for general power distribution zones only.
Specified Standard	IEC 60947-1: 2007 +A1: 2010 +A2: 2014 IEC 60947-2: 2016 +A1: 2019 IACS UR E10 Rev. 9: 2023
Ratings	Rated insulation voltage Ui: 800 V Rated impulse withstand voltage Uimp: 8 kV Rated current In: 100 to 630 A Rated operational voltage Ue: 220 to 690 VAC Rated frequency: 50/60 Hz Utilization category: A No. of poles: 3 or 4 Ambient temperature: -25 °C to 70 °C For detailed ratings, pls. refer to appendix.
Other Conditions	Derating for ambient temperature above 40 °C according to manufacturer's derating table. The optional wireless functionality has not been tested and is no part of the type approval certificate. It shall not be used on LR classed vessels. Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

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Certificate No: LR23373836TA-01
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Type Approval Certificate

If the specified standards are amended during the validity of this certificate, the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply.

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

Previous Version: This certificate supersedes certificate number LR23373836TA issued on 03.01.2024 which is hereby cancelled.

The Design Appraisal Document TSO-24-022729-AMS-TW and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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Certificate No: LR23373836TA-01
Issue Date: 30/01/2024
Expiry Date: 02/01/2029

Appendix

DESCRIPTION

Low Voltage moulded-case circuit-breaker, 3 and 4 pole, equipped with Thermal-Magnetic (TMD) or MicroLogic trip units

Com**PacT** NSX①②

① Current rating

100	100 A
160	160 A
250	250 A
400	400 A
630	630 A

② Performance level
B, F, N, H, S, L, R, HB1, HB2

Trip units:

NSX100-250
- TMD
- MicroLogic 2.2, 5.2, 6.2

NSX400-630
- MicroLogic 1.3, 2.3, 5.3, 6.3

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RATINGS Electrical characteristics acc. to IEC 60947-2

	Type	Rated current In [A] at 40 °C	Rated voltage Ue [VAC]	Breaking capacity (1)		Trip unit	Selectivity category
				Icu [kA]	Ics [kA]		
NSX100	B	100	220/240	40	40	TMD or MicroLogic 2.2, 5.2, 6.2	A
			380/415	25	25		
			440	20	20		
			500	15	7		
	F		220/240	85	85		
			380/415	36	36		
			440	35	35		
			500	25	12		
			525	22	11		
			660/690	8	4		
	N		220/240	90	90		
			380/415, 440	50	50		
			500	36	36		
			525	35	35		
			660/690	10	10		
	H		220/240	100	100		
			380/415	70	70		
			440	65	65		
			500	50	50		
			525	35	35		
			660/690	10	10		
	S		220/240	120	120		
			380/415	100	100		
			440	90	90		
			500	65	65		
			525	40	40		
			660/690	15	10		
	L		220/240, 380/415	150	150		
			440	130	130		
			500	70	70		
			525	50	50		
			660/690	20	10		
	R		220/240, 380/415, 440	200	200		
			500	80	80		
			525	65	65		
			660/690	45	45		
	HB1		500	85	85		
			525	80	80		
			660/690	75	75		
	HB2		500, 525, 660/690	100	100		

(1) for power factor 0.2/0.25 (I > 50 kA = 0.2; I < 50 kA = 0.25)

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RATINGS (continued) Electrical characteristics acc. to IEC 60947-2

	Type	Rated current In [A] at 40 °C	Rated voltage Ue [VAC]	Breaking capacity (1)		Trip unit	Selectivity category
				Icu [kA]	Ics [kA]		
NSX160 (2)	B	160	220/240	40	40	TMD or MicroLogic 2.2, 5.2, 6.2	A
			380/415	25	25		
			440	20	20		
			500	15	15		
	F		220/240	85	85		
			380/415	36	36		
			440	35	35		
			500	30	30		
			525	22	22		
			660/690	8	8		
	N		220/240	90	90		
			380/415, 440	50	50		
			500	36	36		
			525	35	35		
			660/690	10	10		
	H		220/240	100	100		
			380/415	70	70		
			440	65	65		
			500	50	50		
			525	35	35		
			660/690	10	10		
	S		220/240	120	120		
			380/415	100	100		
			440	90	90		
			500	65	50		
			525	40	35		
			660/690	15	10		
	L		220/240, 380/415	150	150		
			440	130	130		
			500	70	50		
			525	50	35		
			660/690	20	10		

(1) for power factor 0.2/0.25 (I > 50 kA = 0.2; I < 50 kA = 0.25)

(2) There is no 160 A frame for the types R/HB1/HB2. For R/HB1/HB2, use 250 A frame with lower ratings trip units.

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RATINGS (continued) Electrical characteristics acc. to IEC 60947-2

	Type	Rated current In [A] at 40 °C	Rated voltage Ue [VAC]	Breaking capacity (1)		Trip unit	Selectivity category
				Icu [kA]	Ics [kA]		
NSX250	B	250	220/240	40	40	TMD or MicroLogic 2.2, 5.2, 6.2	A
			380/415	25	25		
			440	20	20		
			500	15	15		
	F		220/240	85	85		
			380/415	36	36		
			440	35	35		
			500	30	30		
			525	22	22		
			660/690	8	8		
	N		220/240	90	90		
			380/415, 440	50	50		
			500	36	36		
			525	35	35		
			660/690	10	10		
	H		220/240	100	100		
			380/415	70	70		
			440	65	65		
			500	50	50		
			525	35	35		
			660/690	10	10		
	S		220/240	120	120		
			380/415	100	100		
			440	90	90		
			500	65	65		
			525	40	40		
			660/690	15	10		
	L		220/240, 380/415	150	150		
			440	130	130		
			500	70	70		
			525	50	50		
			660/690	20	10		
	R		220/240, 380/415, 440	200	200		
			500	80	80		
			525	65	65		
			660/690	45	45		
	HB1		500	85	85		
			525	80	80		
			660/690	75	75		
	HB2		500, 525, 660/690	100	100		

(1) for power factor 0.2/0.25 (I > 50 kA = 0.2; I < 50 kA = 0.25)

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RATINGS (continued) Electrical characteristics acc. to IEC 60947-2

	Type	Rated current In [A] at 40 °C	Rated voltage Ue [VAC]	Breaking capacity (1)		Trip unit	Selectivity category
				Icu [kA]	Ics [kA]		
NSX400	F	400	220/240	40	40	MicroLogic 1.3, 2.3, 5.3, 6.3	A
			380/415	36	36		
			440	30	30		
			500	25	25		
			525	20	10		
			660/690	10	10		
	N		220/240	85	85		
			380/415	50	50		
			440	42	42		
			500	30	30		
			525	22	11		
			660/690	10	10		
	H		220/240	100	100		
			380/415	70	70		
			440	65	65		
			500	50	50		
			525	35	11		
			660/690	20	10		
	S		220/240	120	120		
			380/415	100	100		
			440	90	90		
			500	65	65		
			525	40	12		
			660/690	25	12		
	L		220/240; 380/415	150	150		
			440	130	130		
			500	70	70		
			525	50	12		
			660/690	35	12		
	R		220/240, 380/415, 440	200	200		
			500	80	80		
			525	65	65		
			660/690	45	45		
	HB1		500	85	85		
			525	80	80		
			660/690	75	75		
	HB2		500, 525, 660/690	100	100		

(1) for power factor 0.2/0.25 (I > 50 kA = 0.2; I < 50 kA = 0.25)

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RATINGS (continued) Electrical characteristics acc. to IEC 60947-2

	Type	Rated current In [A] at 40 °C	Rated voltage Ue [VAC]	Breaking capacity (1)		Trip unit	Selectivity category
				Icu [kA]	Ics [kA]		
NSX630	F	630	220/240	40	40	MicroLogic 1.3, 2.3, 5.3, 6.3	A
			380/415	36	36		
			440	30	30		
			500	25	25		
			525	20	10		
			660/690	10	10		
	N		220/240	85	85		
			380/415	50	50		
			440	42	42		
			500	30	30		
			525	22	11		
			660/690	10	10		
	H		220/240	100	100		
			380/415	70	70		
			440	65	65		
			500	50	50		
			525	35	11		
			660/690	20	10		
	S		220/240	120	120		
			380/415	100	100		
			440	90	90		
			500	65	65		
			525	40	12		
			660/690	25	12		
	L		220/240, 380/415	150	150		
			440	130	130		
			500	70	70		
			525	50	12		
			660/690	35	12		
	R (2)		220/240, 380/415, 440	200	200		
			500	80	80		
			525	65	65		
			660/690	45	45		
	HB1 (2)		500	85	85		
			525	80	80		
			660/690	75	75		
	HB2 (2)		500, 525, 660/690	100	100		

(1) for power factor 0.2/0.25 (I > 50 kA = 0.2; I < 50 kA = 0.25)
(2) for Ir = 225 to 500 A
(3) for Ir = 501 to 630 A

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RATINGS (continued) Electrical characteristics acc. to IEC 60947-2

	Type	Rated current In [A] at 40 °C	Rated voltage Ue [VAC]	Breaking capacity (1)		Trip unit	Selectivity category
NSX630	R (3)	630	220/240, 380/415, 440	200	200	MicroLogic 1.3, 2.3, 5.3, 6.3	A
			500	80	80		
			525	65	-		
			660/690	45	-		
	HB1 (3)		500	85	85		
			525	80	-		
			660/690	75	-		
	HB2 (3)		500	100	100		
			525	100	-		
			660/690	100	-		

(1) for power factor 0.2/0.25 (I > 50 kA = 0.2; I < 50 kA = 0.25)
(2) for Ir = 225 to 500 A
(3) for Ir = 501 to 630 A

Places of Production

ComPacT NSX100/160/250 are produced by:
Schneider Electric Industries Polska Sp. z.o.o., Poland

ComPacT NSX400/630 are produced by:
Schneider Electric Industrie Italia S.p.a., Italy

ComPacT NSX100/160/250/400/630 are produced by:
Schneider (Beijing) Low Voltage Co. Ltd., China

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