



**TYPE APPROVAL CERTIFICATE**  
No. **ELE314222CS**

**This is to certify** that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	<b>MOULDED CASE CIRCUIT BREAKER</b>
<i>Type</i>	<b>ComPacT NSX Series NSX100, NSX160, NSX250, Ver. B,F,N,H,S,L NSX100, NSX250 Ver. R,HB1,HB2 NSX400, NSX630 Ver. F,N,H,S,L,R,HB1,HB2</b>
<i>Applicant</i>	<b>SCHNEIDER ELECTRIC INDUSTRIES SAS 35 Rue Joseph Monier 92500 Rueil Malmaison FRANCE</b>
<i>Reference standards</i>	<b>IEC 60947-2:2016 +A1:2019 RINA Rules for the Classification of Naval Ships</b>

*Issued in* **Genoa** on **November 15, 2022**. *This Certificate is valid until* **July 2, 2024**

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**RINA Services S.p.A.**  
**Luigi Benedetti**

This certificate consists of this page and 1 enclosure

## TYPE APPROVAL CERTIFICATE

No. ELE314222CS

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ComPacT NSX Series

NSX100, NSX160, NSX250, Ver. B,F,N,H,S,L

NSX100, NSX250 Ver. R,HB1,HB2

NSX400, NSX630 Ver. F,N,H,S,L,R,HB1,HB2

### Product description

Moulded-case circuit-breakers type NSX equipped with thermal-magnetic trip unit or electronic trip units

### General features:

Rated frequency: 50+60Hz

Rated operational voltage (Ue); Selectivity Category: A

Insulation Voltage Ui: 800V; Rated impulse withstand voltage Uimp: 8 kV

Suitable for insulation: yes

NSX 100, NSX 160, NSX250 - Version B, F, N, H, S, L.

(\*) Rated operational current (Ie) at 40°C: 16A to 250A

### NSX100 B (for NSX 160B/NSX250 B Ics=100% Icu)

Ue(V)	Ics(kA)	Icu (kA)
220/240	40	40
380/415	25	25
440	20	20
500	7	15

### NSX100 F (for NSX 160 F/NSX250 F Ics=100% Icu)

Ue(V)	Ics(kA)	Icu (kA)
220/240	85	85
380/415	36	36
440	35	35
500	12	25
525	11	22
660/690	4	8

### NSX100 N / NSX160 N / NSX 250 N

Ue(V)	Ics(kA)	Icu (kA)
220/240	90	90
380/415	50	50
440	50	50
500	36	36
525	35	35
660/690	10	10

### NSX100 H / NSX160 H / NSX 250 H

Ue(V)	Ics(kA)	Icu (kA)
220/240	100	100
380/415	70	70
440	65	65
500	50	50
525	35	35
660/690	10	10

**NSX100 S / NSX160 S / NSX 250 S**

Ue(V)	Ics(kA)	Icu (kA)
220/240	120	120
380/415	100	100
440	90	90
500	65	65
525	40	40
660/690	10	15

**NSX100 L / NSX160 L / NSX 250 L**

Ue(V)	Ics(kA)	Icu (kA)
220/240	150	150
380/415	150	150
440	130	130
500	70	70
525	50	50
660/690	10	20

**NSX 100, NSX 160, NSX250 - Version R, HB1, HB2**

(\*) Rated operational current (Ie) at 40°C: 40A to 250A

**NSX100 R / NSX 250 R**

Ue(V)	Ics(kA)	Icu (kA)
220/240	200	200
380/415	200	200
440	200	200
500	80	80
525	65	65
660/690	45	45

For the type R there is no frame 160 A. Use 250 A with lower rating trip units.

**NSX100 HB1 / NSX 250 HB1**

Ue(V)	Ics(kA)	Icu (kA)
500	85	85
525	80	80
660/690	75	75

For the type HB1 there is no frame 160 A. Use 250 A with lower rating trip units.

**NSX100 HB2 / NSX 250 HB2**

Ue(V)	Ics(kA)	Icu (kA)
500	100	100
525	100	100
660/690	100	100

For the type HB2 there is no frame 160 A. Use 250 A with lower rating trip units.

Overcurrent protective device:

With electronic trip unit *MicroLogic* 2.2, 2.2M, 5.2A, 5.2E, 6.2A, 6.2E, 6.2E-M,

or with magnetic trip unit MA

or with thermal - magnetic trip unit TMD

NSX 400, NSX 630 - Version F, N, H, S, L.

(\*) Rated operational current (Ie) at 40°C: 250A to 630A

**NSX400 F / NSX630F**

Ue(V)	Ics(kA)	Icu (kA)
220/240	40	40
380/415	36	36
440	30	30
500	25	25
525	10	20
660/690	10	10

**NSX400 N / NSX630 N**

Ue(V)	Ics(kA)	Icu (kA)
220/240	85	85
380/415	50	50
440	42	42
500	30	30
525	11	22
660/690	10	10

**NSX400 H / NSX630 H**

Ue(V)	Ics(kA)	Icu (kA)
220/240	100	100
380/415	70	70
440	65	65
500	50	50
525	11	35
660/690	10	20

**NSX400 S / NSX630 S**

Ue(V)	Ics(kA)	Icu (kA)
220/240	120	120
380/415	100	100
440	90	90
500	65	65
525	12	40
660/690	12	25

**NSX400 L / NSX630 L**

Ue(V)	Ics(kA)	Icu (kA)
220/240	150	150
380/415	150	150
440	130	130
500	70	70
525	12	50
660/690	12	35

**NSX 400 - Version R, HB1, HB2**

(\*) Rated operational current (Ie) at 40°C: 250A to 400A

**NSX400 R;**

Ue(V)	Ics(kA)	Icu (kA)
220/240	200	200
380/415	200	200
440	200	200
500	80	80
525	65	65
660/690	45	45

**NSX400 HB1;**

Ue(V)	Ics(kA)	Icu (kA)
500	85	85
525	80	80
660/690	75	75

**NSX400 HB2;**

Ue(V)	Ics(kA)	Icu (kA)
500	100	100
525	100	100
660/690	100	100

**NSX 630 - Version R, HB1, HB2**

(\*) Rated operational current (In) at 40°C: Ir 225A to 500A Ir 501A to 630A

**NSX630 R Ir 225A to 500A;**

Ue(V)	Ics(kA)	Icu (kA)
220/240	200	200
380/415	200	200
440	200	200
500	80	80
525	65	65
660/690	45	45

**NSX630 HB1 Ir 225A to 500A;**

Ue(V)	Ics(kA)	Icu (kA)
500	85	85
525	80	80
660/690	75	75

**NSX630 HB2 Ir 225A to 500A;**

Ue(V)	Ics(kA)	Icu (kA)
500	100	100
525	100	100
660/690	100	100

**NSX630 R Ir 501A to 630A;**

Ue(V)	Ics(kA)	Icu (kA)
220/240	200	200
380/415	200	200
440	200	200
500	80	80
525	/	65
660/690	/	45

**NSX630 HB1 Ir 501A to 630A;**

Ue(V)	Ics(kA)	Icu (kA)
500	85	85
525	/	80
660/690	/	75

**NSX630 HB2 Ir 501A to 630A;**

Ue(V)	Ics(kA)	Icu (kA)
500	100	100
525	/	100
660/690	/	100

Overcurrent protective device:

With *electronic trip unit MicroLogic* 1.3M, 2.3, 2.3M, 5.3A, 5.3E, 6.3A, 6.3E, 6.3E-M

Note:

Ics= Rated service short circuit breaking capacity; Icu= Rated ultimate short circuit breaking capacity

Icm= Rated short circuit making capacity (\*\*)

(\*) A derating of the rated current is to be considered with an ambient temperature of 45°C according to the Catalogue ComPacT NSX & NSXm, LVPED221001EN Ed. 2021/12

(\*\*) Icm (kA) in accordance with Standard IEC 60947-2, Tab. 2.

**Reference document:**

TAC n° ELE217419CS

Offer n° 2022/15545

TAO-APP dated 15 June 2022

**Technical document**

2011990033 & AMD No1; 2011990035 & AMD No1; 2011990036 & AMD No1; 2011990037 & AMD No1 dated (20/08/2021)

IEC CB Test Certificate FR 711869/M1 (29/10/2021), FR 711870/M1 (29/10/2021)& FR 711871/M1 (28/10/2021), FR 711873/M1 (28/10/2021);

Test Report n°2111939009 (15/12/2021), 2111939010 (15/12/2021)

**Place of Manufacturing**

Location name	Address	Products manufactured
SCHNEIDER ELECTRIC INDUSTRIES POLSKA Sp z. o. o.	ul. Mostowa, 19 32-332 Bukowo, Poland	ComPacT NSX 100-250
SCHNEIDER ELECTRIC INDUSTRIE ITALIA S.P.A.	Corso Italia, 115 I-80020 Casavatore (Napoli), Italy	ComPacT NSX 400-630
SCHNEIDER (BEIJING) LOW VOLTAGE CO., Ltd	No 2, Liang Shui He 2nd Street Beijing Economic Technological Development Area Beijing 100176, P.R. China	ComPacT NSX 100-250 ComPacT NSX 400-630

**Genoa November 15, 2022**