



TYPE APPROVAL CERTIFICATE
No. ELE078922CS

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>	Circuit breaker
<i>Type</i>	Compact NS630b - 1600 manually operated ComPacT NS630b - 1600 manually operated NS630bN NS800N NS1000N NS1250N NS1600N NS630bH NS800H NS1000H NS1250H NS1600H NS630bL NS800L NS1000L NS630bLB NS800LB
<i>Applicant</i>	SCHNEIDER ELECTRIC INDUSTRIES SAS 31 Rue Pierre Mendes F- 38050 Grenoble Cedex 9 FRANCE
<i>Manufacturer</i>	SCHNEIDER ELECTRIC ALPES
<i>Place of manufacture</i>	Voie Isaac Newton, ZI Alpespace 73800 Francin FRANCE
<i>Reference standards</i>	RINA Rules for the Classification of Ships PtC, Ch.2, Sect.8; IEC 60947-1:2007+A1:2010+A2:2014; IEC 60947-2:2016+A1:2019; IACS UR E10 (Rev.7)

Issued in **Genoa** on **March 28, 2022**. *This Certificate is valid until* **June 30, 2025**

RINA Services S.p.A.
Luigi Benedetti

This certificate consists of this page and 1 enclosure

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Enclosure - Page 1 of 1

Compact NS630b - 1600 manually operated**ComPacT NS630b - 1600 manually operated****NS630bN****NS800N****NS1000N****NS1250N****NS1600N****NS630bH****NS800H****NS1000H****NS1250H****NS1600H****NS630bL****NS800L****NS1000L****NS630bLB****NS800LB**

Number of poles: 3 or 4; Insulation Voltage Ui: 1000Vac; Uimp: 8kV, Suitable for insulation: Yes; Pollution degree:3

Circuit Breakers		NS630bN, NS800N, NS1000N, NS1250N				
Electronic releases		Type according to table (1)				
Rated Voltage (Ue)	V	220/240	380/415	440	500/525	660/690
Rated Current (In)	A	630, 800, 1000, 1250				
Rated Frequency	Hz	50-60				
Service short-circuit breaking capacity (Ics)	kA	50	50	50	40	30
Ultimate short-circuit breaking capacity (Icu)	kA	85	50	50	40	30
Rated short-time breaking withstand current (Icw)	kA	19.2 kA/1sec				
Selectivity category		B				

Circuit Breakers		NS1600N				
Electronic releases		Type according to table (1)				
Rated Voltage (Ue)	V	220/240	380/415	440	500/525	660/690
Rated Current (In)	A	1600				
Rated Frequency	Hz	50-60				
Service short-circuit breaking capacity (Ics)	kA	37	37	37	30	22
Ultimate short-circuit breaking capacity (Icu)	kA	85	50	50	40	30
Rated short-time breaking withstand current (Icw)	kA	19.2 kA/1sec				
Selectivity category		B				

Circuit Breakers		NS630bH, NS800H, NS1000H, NS1250H				
Electronic releases		Type according to table (1)				
Rated Voltage (Ue)	V	220/240	380/415	440	500/525	660/690
Rated Current (In)	A	630, 800, 1000, 1250				
Rated Frequency	Hz	50-60				
Service short-circuit breaking capacity (Ics)	kA	50	50	50	40	30
Ultimate short-circuit breaking capacity (Icu)	kA	85	70	65	50	42
Rated short-time breaking withstand current (Icw)	kA	19.2 kA/1sec				
Selectivity category		B				

Circuit Breakers		NS1600H				
Electronic releases		Type according to table (1)				
Rated Voltage (Ue)	V	220/240	380/415	440	500/525	660/690
Rated Current (In)	A	1600				
Rated Frequency	Hz	50-60				
Service short-circuit breaking capacity (Ics)	kA	37	37	37	30	22
Ultimate short-circuit breaking capacity (Icu)	kA	85	70	65	50	42
Rated short-time breaking withstand current (Icw)	kA	19.2 kA/1sec				
Selectivity category		B				

Circuit Breakers		NS630bL, NS800L, NS1000L			
Electronic releases		Type according to table (1)			
Rated Voltage (Ue)	V	220/240	380/415	440	500/525
Rated Current (In)	A	630, 800, 1000			
Rated Frequency	Hz	50-60			
Service short-circuit breaking capacity (Ics)	kA	150	150	130	100
Ultimate short-circuit breaking capacity (Icu)	kA	150	150	130	100
Selectivity category		A			

Circuit Breakers		NS630bLB, NS800LB				
Electronic releases		Type according to table (1)				
Rated Voltage (Ue)	V	220/240	380/415	440	500/525	660/690
Rated Current (In)	A	630,800				
Rated Frequency	Hz	50-60				
Service short-circuit breaking capacity (Ics)	kA	200	200	200	100	75
Ultimate short-circuit breaking capacity (Icu)	kA	200	200	200	100	75
Selectivity category		A				

Table (1): MICROLOGIC Circuit Breaker Measurement trip-units

Protection	No Metering	A "Ammeter"	E "Energy"	P "Power"
L, I	2.0	2.0A	2.0E	-
L, S, I	5.0	5.0A	5.0E	5.0P
L, S, I, G	6.0	6.0A	6.0E	6.0P

L = Long Time, **S** = Short Time, **I** = Instantaneous, **G** = Ground Fault (Equipment)

LSIG = Long-time + Short-time + Instantaneous + Equipment Ground-fault

LSIV = Long-time + Short-time + Instantaneous + Equipment Earth-leakage

Upgrade 2022

CB Test Report n. 2111930020 (03/12/2021)- 20119900113B (11/08/2021)- 2011990012 & AMD1 (19/08/2020)- 2011990013A (06/08/2020)

CB Test Certificate FR_713047 (20/01/2022) _ NS630b N, NS800 N, NS1000 N, NS1250 N, NS1600 N
 NS630b L, NS800 H, NS1000 H, NS1250 H, NS1600 H
 NS630b L, NS800 L, NS1000 L
 NS630b LB, NS800 LB

CB Test Certificate FR_709297 (07/09/2020) _ NS630b N, NS800 N, NS1000 N, NS1250 N, NS1600 N

CB Test Certificate FR_703909 (07/09/2020) _ NS630b L, NS800 L, NS1000 L

CB Test Certificate FR_709298 (07/09/2020) _ NS630b H, NS800 H, NS1000 H, NS1250 H, NS1600 H

CB Test Certificate FR_709404/M1 (04/11/2020) _ NS630b LB, NS800 LB

Environmental Test Report: 2111930035 (04/2021)- 2111939004 (04/2021)- 2111939005 (04/2021)-2111939019 (11/2021)

Reference document& Test Report

TA Certificate N.ELE117120CS dated 04/05/2020

General Remarks

On board reference ambient temperature is 45°C; Permissible rated current to be considered accordingly.

Genoa May 4, 2020

RINA Services S.p.A.
 Via Corsica, 12 - 16128 Genova
 Tel +39 010 53851
 Fax +39 010 5351000