



**TYPE APPROVAL CERTIFICATE**  
No. **ELE037224CS**

**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>Circuit Breaker and Switch disconnectors</b>
<i>Type</i>	<b>Air Circuit Breaker Masterpact NW : NW 08/10/12/16 N1 NW 08/10/12/16/20/25/32/40 H1 NW 08/10/12/16/20/25/32/40 H2 NW 20/25/32/40 H3 NW 08/10/12/16/20 L1 SWITCH-DISCONNECTOR MASTERPACT NW : NW 08/10/12/16 NA NW 08/10/12/16/20/25/32/40 HA NW 08/10/12/16/20/25/32/40 HF</b>
<i>Applicant</i>	<b>SCHNEIDER ELECTRIC INDUSTRIES SAS Partner Business Unit / LV - 38EQI, 31 RUE PIERRE MENDÈS 38050 Eybens</b>
<i>Reference standards</i>	<b>Rules for the Classification of Ship - Machinery, Systems and Fire Protection Pt C, Ch 3, Sec 6, Table 1; IEC 60947-2:2016 +A1:2019; IEC 60947-3:2020</b>

*Issued in* **Genoa** on **February 27, 2024**. *This Certificate is valid until* **February 26, 2029**

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

This certificate consists of this page and 1 enclosure

## TYPE APPROVAL CERTIFICATE

No. ELE037224CS

Enclosure - Page 1 of 5

MASTERPACT NW Series:

### Materials/Components

Model H1	NW08	NW10	NW12	NW16	NW20	NW25	NW32	NW40
Rated Voltage (Ue)	up to 690V							
Impulse withstand voltage (Uimp)	12kV							
Insulation Voltage (Ui)	1000V							
Rated Current (In)	800A	1000A	1250A	1600A	2000A	2500A	3200A	4000A
Reference temperature	40°C							
Rated Frequency	50/60Hz							
Rated service short circuit breaking capacity (Ics)	65kA at 220/415/440V 65kA at 525V 65kA at 690V							
Rated ultimate short circuit breaking capacity (Icu)	65kA at 220/415/440V 65kA at 525V 65kA at 690V							
Rated short circuit making capacity (Icm)	143kA at 220/415/440V 143kA at 525V 143kA at 690V							
Rated short-time withstand current (Icw)	65kA up to 1s 36kA up to 3s				65kA up to 1s 65kA up to 3s			

Model H2	NW08	NW10	NW12	NW16	NW20	NW25	NW32	NW40
Rated Voltage (Ue)	up to 690V							
Impulse withstand voltage (Uimp)	12kV							
Insulation Voltage (Ui)	1000V							
Rated Current (In)	800A	1000A	1250A	1600A	2000A	2500A	3200A	4000A
Reference temperature	40°C							
Rated Frequency	50/60Hz							
Rated service short circuit breaking capacity (Ics)	100kA at 220/415/440V 85kA at 525V 85kA at 690V							
Rated ultimate short circuit breaking capacity (Icu)	100kA at 220/415/440V 85kA at 525V 85kA at 690V							
Rated short circuit making capacity (Icm)	220kA at 220/415/440V 187kA at 525V 187kA at 690V							
Rated short-time withstand current (Icw)	85kA up to 1s 50kA up to 3s				85kA up to 1s 75kA up to 3s			

**Enclosure - Page 2 of 5**

<b>Model H3</b>	<b>NW20</b>	<b>NW25</b>	<b>NW32</b>	<b>NW40</b>
Rated Voltage (Ue)	up to 690V			
Impulse withstand voltage (Uimp)	12kV			
Insulation Voltage (Ui)	1000V			
Rated Current (In)	2000A	2500A	3200A	4000A
Reference temperature	40°C			
Rated Frequency	50/60Hz			
Rated service short circuit breaking capacity (Ics)	150kA at 220/415/440V 130kA at 525V 100kA at 690V			
Rated ultimate short circuit breaking capacity (Icu)	150kA at 220/415/440V 130kA at 525V 100kA at 690V			
Rated short circuit making capacity (Icm)	330kA at 220/415/440V 286kA at 525V 220kA at 690V			
Rated short-time withstand current (Icw)	65kA up to 1s 65kA up to 3s			

<b>Model L1</b>	<b>NW08</b>	<b>NW10</b>	<b>NW12</b>	<b>NW16</b>	<b>NW20</b>
Rated Voltage (Ue)	up to 690V				
Impulse withstand voltage (Uimp)	12kV				
Insulation Voltage (Ui)	1000V				
Rated Current (In)	800A	1000A	1250A	1600A	2000A
Reference temperature	40°C				
Rated Frequency	50/60Hz				
Rated service short circuit breaking capacity (Ics)	150kA at 220/415/440V 130kA at 525V 100kA at 690V				
Rated ultimate short circuit breaking capacity (Icu)	150kA at 220/415/440V 130kA at 525V 100kA at 690V				
Rated short circuit making capacity (Icm)	330kA at 220/415/440V 286kA at 525V 220kA at 690V				
Rated short-time withstand current (Icw)	30kA up to 1s 30kA up to 3s				

**Enclosure - Page 3 of 5**

<b>Model N1</b>	<b>NW08</b>	<b>NW10</b>	<b>NW12</b>	<b>NW16</b>
Rated Voltage (Ue)	up to 690V			
Impulse withstand voltage (Uimp)	12kV			
Insulation Voltage (Ui)	1000V			
Rated Current (In)	800A	1000A	1250A	1600A
Reference temperature	40°C			
Rated Frequency	50/60Hz			
Rated service short circuit breaking capacity (Ics)	42kA up to 690V			
Rated ultimate short circuit breaking capacity (Icu)	42kA up to 690V			
Rated short circuit making capacity (Icm)	88kA up to 690V			
Rated short-time withstand current (Icw)	42kA up to 1s 22kA up to 3s			

<b>Model NA</b>	<b>NW08</b>	<b>NW10</b>	<b>NW12</b>	<b>NW16</b>
Rated Voltage (Ue)	up to 690V			
Impulse withstand voltage (Uimp)	12kV			
Insulation Voltage (Ui)	1000V			
Rated Current (In)	800A	1000A	1250A	1600A
Reference temperature	40°C			
Rated Frequency	50/60Hz			
Rated short circuit making capacity (Icm)	88kA up to 690V			
Rated short-time withstand current (Icw)	42kA up to 1s			

<b>Model HA (switch disconnecter)</b>	<b>NW08</b>	<b>NW10</b>	<b>NW12</b>	<b>NW16</b>	<b>NW20</b>	<b>NW25</b>	<b>NW32</b>	<b>NW40</b>
Rated Voltage (Ue)	up to 690V							
Impulse withstand voltage (Uimp)	12kV							
Insulation Voltage (Ui)	1000V							
Rated Operational Current (Ie)	800A	1000A	1250A	1600A	2000A	2500A	3200A	4000A
Reference temperature	40°C							
Rated Frequency	50/60Hz							
Rated short circuit making capacity (Icm)	143kA up to 690V							
Rated short-time withstand current (Icw)	65kA up to 1s 36kA un to 3s							

**Enclosure - Page 4 of 5**

<b>Model HF (switch disconnecter)</b>	<b>NW08</b>	<b>NW10</b>	<b>NW12</b>	<b>NW16</b>	<b>NW20</b>	<b>NW25</b>	<b>NW32</b>	<b>NW40</b>
Rated Voltage (Ue)	up to 690V							
Impulse withstand voltage (Uimp)	12kV							
Insulation Voltage (Ui)	1000V							
Rated Operational Current (Ie)	800A	1000A	1250A	1600A	2000A	2500A	3200A	4000A
Reference temperature	40°C							
Rated Frequency	50/60Hz							
Rated short circuit making capacity (Icm)	187kA up to 690V							
Rated short-time withstand current (Icw)	85kA up to 1s 50kA up to 3s				85kA at 1s 75kA at 3s			

<b>Model HF (Unprotected circuit breaker)</b>	<b>NW08</b>	<b>NW10</b>	<b>NW12</b>	<b>NW16</b>	<b>NW20</b>	<b>NW25</b>	<b>NW32</b>	<b>NW40</b>
Rated Voltage (Ue)	up to 690V							
Impulse withstand voltage (Uimp)	12kV							
Insulation Voltage (Ui)	1000V							
Rated Current (In)	800A	1000A	1250A	1600A	2000A	2500A	3200A	4000A
Reference temperature	40°C							
Rated Frequency	50/60Hz							
Rated service short circuit breaking capacity (Ics)	85kA un to 690V							
Rated ultimate short circuit breaking capacity (Icu)	85kA up to 690V							
Rated short circuit making capacity (Icm)	187kA up to 690V							
Rated short-time withstand current (Icw)	85kA up to 1s 50kA up to 3s				85kA at 1s 75kA at 3s			

**Enclosure - Page 5 of 5**

***Test Reports and certifications:***

***IEC test reports:***

***-N° 2011990022-02 dated 16/11/2020; N° 201304204\_004 dated 10/03/2014; N° 2014003676\_001 dated 22/05/2014; N° AT19-0373-2 dated 24/05/2019 related to H1,H2,H3,L1,N1 models.***

***-N° 23119Y90041 dated 09/11/2023 ; N° 23119Y90041-A1 dated 12/01/2024; N° 23119Y90048 dated 18/01/2024 related to HF model.***

***-N° 23119Y90039 dated 28/09/2023 related to NA,HA models.***

***IACS test reports:***

***-N° 2266478.01 dated 2022/04/21.***

***-N° 201504917\_105\_v1 dated 2016/09/22.***

***-N° 201100250\_011 dated 2011/09/23.***

***-N° 2266490.0502 dated 2022/07/11.***

***ISO 9001 certificates:***

***-N° FR081935 dated 07/07/2023.***

***Reference documents:***

***-Declaration of equivalence by the manufacturer.***

***-TAO-APP dated 05/03/2024.***

***-Offer N° 2024/2477 dated 25/01/2024.***

***The above-mentioned documents have been archived in the Leonardo Draw Plus portal under the project:  
<https://leodrawplus.rina.org/transmittals/119558/detail>***

**Genoa February 27, 2024**