

TEST CERTIFICATE

Issued to: Schneider Electric Industries SAS Electropole 38EQI
31 rue Pierre Mendès
Eybens
38050 Grenoble 9
France

For the product: Low-voltage switchgear and controlgear assembly

Trade name: Schneider-Electric

Type/Model: PrismaSeT 1600A

Ratings: I_{nA} max. 1420 A, U_e 415 V, U_i 500 V, U_{imp} 6 kV (U_i/U_{imp} 500 V / 6 kV MCBs, 800 V / 8 kV MCCBs, 1000 V / 12 kV ACBs and busbars), I_{cc} up to 70 kA at 415 V
For more details see annex

Manufactured by: Schneider Electric Industries SAS Electropole 38EQI
31 rue Pierre Mendès
Eybens
38050 Grenoble 9
France

Subject: Design verification

Requirements: IEC 61439-2:2020
Clauses 8.101, 10.2, 10.4, 10.5, 10.9, 10.10, 10.11, 10.12

Remarks: -

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 2258112.01-INC, dated 2 December 2021.

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Arnhem, 2 December 2021

Number: 2258112.100

DEKRA Certification B.V.



F.S. Strikwerda
Certification Manager

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Overview of product evaluation according to IEC 61439-2:

IEC 61439-2 Clause	Clause description	Tested ratings	Results
10.2	Strength of materials and parts		
10.2.2	Resistance to corrosion	Severity test A: Indoor	Pass
10.2.3.2	Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects	Insulating materials retaining current-carrying parts in position: 960 °C Other insulating materials: 650 °C	Pass
10.2.6	Verification of protection against mechanical impact (IK code)	IK10 on metallic enclosure	Pass
10.2.7	Marking	Engraved, not applicable	Pass
10.2.8	Mechanical operation	200 operations	Pass
10.4	Clearances and creepage distances	Clearances > 5,5 mm, based on Uimp = 6 kV; Creepage distances > 8 mm, based on Ui = 500 V, pollution degree 3, material group IIIa.	Pass
10.5	Protection against electric shock and integrity of protective circuits		
10.5.2	Effective earth continuity between the exposed conductive parts of the assembly and the protective circuit	Resistance < 0,1 Ω	Pass
10.5.3	Short-circuit withstand strength of the protective circuit	Icw 30 kA – 0.5 s Icc 42 kA at 240 Volt	Pass
10.9	Dielectric properties		
10.9.2	Power-frequency withstand voltage	Ui: 500 V MCBs, 800 V MCCBs, 1000 V ACBs and busbars	Pass
10.9.3	Impulse withstand voltage	Uimp: 6 kV MCBs, 8 kV MCCBs, 12 kV ACBs and busbars	Pass
10.10	Temperature-rise		
10.10.2.3.5	Verification of complete assembly at normal ambient	IP31 at 35 C: Incoming unit Ing: - NS 1600 ComPact 1420 A Outgoing units Ing: - NSX 200 (Q1) 180 A - NSX 200 (Q2) 190 A - NSX 200 (Q3) 190 A - NSX 200 (Q4) 190 A - iC60 (Q6) 25 A - iC60 (Q7) 25 A - iC60 (Q8) 15 A - iC60 (Q9) 15 A - NSXm 160 (Q10) 149 A - NSXm 125 (Q11) 117 A IP55 at 35 C: Incoming unit Ing: - NS 1600 ComPact 1300 A Outgoing units Ing: - NSX 200 (Q1) 160 A - NSX 200 (Q2) 180 A - NSX 200 (Q3) 180 A - NSX 200 (Q4) 180 A - iC60 (Q6) 25 A - iC60 (Q7) 25 A - iC60 (Q8) 15 A - iC60 (Q9) 15 A - NSXm 160 (Q10) 140 A - NSXm 125 (Q11) 120 A	Pass

IEC 61439-2 Clause	Clause description	Tested ratings	Results
10.11	Short-circuit withstand strength	Main vertical busbar: Icw 50 kA – 1s Incoming units: MCCB NS1600: 70 kA at 415 V ACB MTZ1-16 H1: 42 kA at 415 V Outgoing units iC60N C20: Icc 10 kA at 415 V MCCB NSXn160: Icc 60 kA at 240 V MCCB NSXm160: Icc 70 kA at 415 V	Pass
10.12	Electromagnetic compatibility (EMC)		Pass

* The examination of the compliance of components in the assembly with their relevant product standard is not part of this product evaluation.

Product details:

	Description
Incoming units	ACB, Schneider Electric, MTZ1-16 H1, 1600 A, 4-poles (Q1) Or MCCB Schneider Electric ComPact NS 1600 (Q1)
Outgoing units	<ul style="list-style-type: none"> - MCCB NSX 200 (Q1) - MCCB NSX 200 (Q2) - MCCB NSX 200 (Q3) - MCCB NSX 200 (Q4) - MCB iC60 (Q6) - MCB iC60 (Q7) - MCB iC60 (Q8) - MCB iC60 (Q9) - MCCB NSXm 160 (Q10) - MCCB NSXm 125 (Q11)
Main vertical busbar	Linergy 1600
Protective Earth	Linergy 630