

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 4000A

Ratings: I_{nA} max. 3520 A, U_e 415 V, U_i 800 V, U_{imp} 8 kV,
 I_{cw} 85 kA - 1 s, 50 kA - 3 s, I_{cc} up to 100 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. 2258104.01-INC, dated 30 November 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, 30 November 2021

Number: 2258104.100

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 (excluding ventilation louvers)	Pass
10.2.7	Marking	Engraved, not applicable	Pass
10.2.8	Mechanical operation	200 operations	Pass
10.4	Clearances and creepage distances	Clearances > 8 mm, based on U _{imp} = 8 kV; Creepage distances > 12,5 mm, based on U _i = 800 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	I _{cw} 51 kA – 0,5 s at 240 V	Pass
10.9	Dielectric properties		
10.9.2	Power-frequency withstand voltage	U _i 800 V	Pass
10.9.3	Impulse withstand voltage	U _{imp} 8 kV	Pass
10.10	Temperature-rise		
10.10.2.3.5	Verification of complete assembly at normal ambient	Incoming unit Ing: - 3520 A (MTZ2-40 H2, 4000 A (Q0)) Outgoing units Ing: - 1000 A (MTZ1-10 L1, 1000 A (Q1)) - 220 A (NSX250 S, 250 A (Q2)) - 570 A (NSX630 S, 630 A (Q3)) - 225 A (NSX250 S, 250 A (Q4)) - 225 A (NSX250 S, 250 A (Q5)) - 225 A (NSX250 S, 250 A (Q6)) - 220 A (NSX250 S, 250 A (Q7)) - 520 A (NSX630 S, 630 A (Q8)) - 315 A NSX630 S, 630 A (Q9))	Pass
10.10.2.3.5	Verification of complete assembly at 50 ° ambient	Incoming unit Ing: - 3000 A (MTZ2-40 H2, 4000 A (Q0)) Outgoing units Ing: - 920 A (MTZ1-10 L1, 1000 A (Q1)) - 180 A (NSX250 S, 250 A (Q2)) - 520 A (NSX630 S, 630 A (Q3)) - 207 A (NSX250 S, 250 A (Q4)) - 207 A (NSX250 S, 250 A (Q5)) - 207 A (NSX250 S, 250 A (Q6)) - 195 A (NSX250 S, 250 A (Q7)) - 420 A (NSX630 S, 630 A (Q8)) - 144 A (NSX630 S, 630 A (Q9))	Pass

IEC 61439-2 Clause	Clause description	Tested ratings	Results
10.11	Short-circuit withstand strength	lcw 85 kA - 1 s, 50 kA – 3 s (main busbar) lcw 51 kA - 1 s (neutral busbar) lcw 85 kA - 1 s, 50 kA – 3 s (distribution busbar) lcw 85 kA - 1 s (incoming unit) lcc 100 kA at 415 V (incoming unit) Outgoing units Q1, Q2, Q3, Q7, Q8, Q9 lcc 100 kA at 415 V 3-phase lcc 60 kA at 240 V neutral Outgoing unit Q4 lcc 85 kA at 415 V 3-phase lcc 51 kA at 240 V neutral	Pass
10.12	Electromagnetic compatibility (EMC)		Pass
8.101	Form of internal separation	Form 3a (IPXXB)	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	(1x) ACB, Schneider Electric, MTZ2-40 H2, 4000 A, 4-poles (Q0)
Outgoing units	1x) ACB, Schneider Electric, MTZ1-10 L1, 1000 A, 4-poles (Q1) (1x) MCCB, Schneider Electric, NSX250 S, 250 A, 4-poles (Q2) (1x) MCCB, Schneider Electric, NSX630 S, 630 A, 4-poles (Q3) (1x) MCCB, Schneider Electric, NSX250 S, 250 A, 4-poles (Q4) (1x) MCCB, Schneider Electric, NSX250 S, 250 A, 4-poles (Q5) (1x) MCCB, Schneider Electric, NSX250 S, 250 A, 4-poles (Q6) (1x) MCCB, Schneider Electric, NSX250 S, 250 A, 4-poles (Q7) (1x) MCCB, Schneider Electric, NSX630 S, 630 A, 4-poles (Q8) (1x) MCCB, Schneider Electric, NSX630 S, 630 A, 4-poles (Q9)
Main busbar	3 phase and neutral – Linergy LGYE 4000A (ref LVS04568)
Distribution busbar	3 phase and neutral – 2 x 80 x 10 mm, copper, phase to phase distance 75 mm
Protective Earth	50 x 10 mm copper