

Power switchgear and controlgear assembly (PSC),

Verification according to IEC 61439-1/-2

Distribution boards intended to be operated by ordinary persons (DBO),

Verification according to IEC 61439-1/-3

Customer:

Order number:

Project:

Workshop:

Testing performed:

No.	Type of test-ing*	Content of routine test	IEC 61439 Section	Result of routine test	Test engineer
1	S	Degree of protection of cabinets /enclosures (sealings, protection covers)	11.2	<input type="text"/>	<input type="text"/>
2	S/P	Creepage and clearance distances	11.3	<input type="text"/>	<input type="text"/>
3	S/P	Protection against electric shock and integrity of protective circuits	11.4	<input type="text"/>	<input type="text"/>
4	S	Incorporation of built-in components	11.5	<input type="text"/>	<input type="text"/>
5	S/P	Internal electrical circuits and connections	11.6	<input type="text"/>	<input type="text"/>
6	S	Terminals for external conductors	11.7	<input type="text"/>	<input type="text"/>
7	P	Mechanical operation (actuating elements, lockings)	11.8	<input type="text"/>	<input type="text"/>
8	P	Dielectric properties	11.9	<input type="text"/> MΩ	<input type="text"/>
<p>A power-frequency withstand test shall be performed on all circuits in accordance with IEC 61439-1 Section 10.9.2 for a duration of 1 s. The test voltage for power switchgear and controlgear assemblies with a rated insulation voltage between 300-690 V a.c. is 1,890 V. The test values for different rated insulation voltages are given in Table 8 of IEC 61439-1.</p>				Test voltage values	<input type="text"/>
<p>Alternatively, for switchgear assemblies with a protective device in the power supply and a rated current up to 250 A applies: Measurement of the insulation resistance with an insulation tester at a voltage of at least 500 V d.c. The test is passed with an insulation resistance of at least 1000 Ω / V.</p>				Insulation resistance	<input type="text"/> Ω/V
9	P	Wiring, operational performance and function	11.10	<input type="text"/>	<input type="text"/>

S - Visual inspection

P - Testing with mechanical or electrical test equipment

Installer:

Test engineer:

Date:

Date: