

Confirmation

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Transfer of results of test documents 14253Bs and 13202Bs from circuit-breaker types 3AP1FG – 145 kV – 50/60 Hz (3AP1FG – 126 kV – 50/60 Hz) to circuit-breaker types 3AP1F – 145 kV – 50/60 Hz (3AP1F – 126 kV – 50/60 Hz) with new composite support insulators for standard ambient conditions and low temperature applications

Because of the numerous variations of available composite insulators designs only standard circuit-breaker types will be type tested and the results of these type tests can be transferred to circuit-breaker of the same kind with similar insulator designs.

In test documents 14253Bs-1, -2, -4, -5 the results of the type test on a 3AP1FG – 145 kV – 50/60 Hz circuit-breaker with composite chamber insulators according to drawing number 525-22023-950 with an air clearance of 1200 mm were issued.

The type tests documented in test documents 13202Bs-1, -2, -3, -4 were performed on a circuit-breaker of the same kind with composite support insulators according to drawing number 526-22023-940_a with an air clearance of 1160 mm.

A new composite support insulator design (drawing number 526-22023-950_a with reinforced flanges and an air clearance of 1221 mm) was successfully developed. The shed profile of the insulator complies with IEC 60815-2.

With these facts the results of the above mentioned type tests on 3AP1FG – 145 kV – 50/60 Hz (3AP1FG – 126 kV – 50/60 Hz) circuit-breakers can be transferred to circuit-breaker types 3AP1FG – 145 kV – 50/60 Hz (3AP1FG – 126 kV – 50/60 Hz) and 3AP1FI – 145 kV – 50/60 Hz (3AP1FI – 126 kV – 50/60 Hz) equipped with this new support insulator design because the composite chamber insulators are identical and the air clearance of the new support insulator is longer than the clearance of the tested one.

