SIEMENS

Energy

TVM **6098b**

Test Documents for Vacuum Circuit-Breaker 3AE1105-2 (12 kV, 31.5 kA, 1250 A)

The vacuum circuit-breakers of type 3AE were type tested in accordance with

IEC Publication 62271-1, Edition 1.0, 2007-10,
IEC Publication 62271-100, Edition 2.0, 2008-04 and the relevant harmonisation documents.

For vacuum circuit-breaker 3AE1105-2 the following test documents are valid:

Type Tests	Rated Values	Test Documents
Dielectric tests	U_P = 75 kV U_d = 28 kV	09-001-MH/E
Temperature-rise tests	I_r = 1250 A	1135.2081027.576
Mechanical operation test at ambient temperature, Low and high temperature tests	10.000 op. Cycles -5 / +55 °C	05-042-MM/E
Short-time withstand current and peak withstand current tests	I_{sc} = 31.5 kA/3s I_{ma} = 80 kA	05-041-MS/E
Short-circuit making and breaking tests	I_{sc} = 31.5 kA I_{ma} = 80 kA	05-035-MS/E

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Berlin, December 09, 2009

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If a test is carried out with a vacuum circuit-breaker with different order number, the validity of the test document is given by the following statements:

The listed test documents for the mentioned vacuum circuit-breaker are valid in respect to familiar design of the vacuum circuit-breakers, as the construction of the main current path and mechanical driving mechanism is nearly identical.

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In addition to the type tests in accordance with IEC 62271-1 and IEC 62271-100 the following tests were carried out:

Type Tests	Test Documents
Single-phase and double earth fault tests	05-035-MS/E
Capacitive current switching tests: -cable-charging current breaking tests -single capacitor bank switching tests	06-055-MS/E
Out-of-phase making and breaking tests	06-024-MS/E

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