

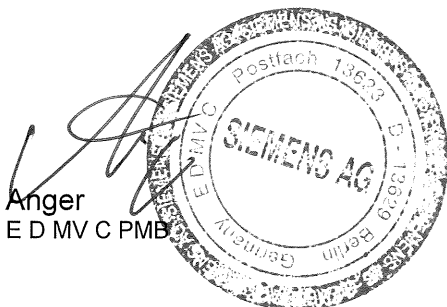
Test Documents for Vacuum Circuit-Breaker 3AH4166-2 Z M30 (15 kV, 40 kA, 1250 A)

The vacuum circuit-breakers of type 3AH4 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 3AH4166-2 Z M30 the following test documents are valid:

Type Tests	Rated Values	Test Documents
Dielectric tests	U _p = 95 kV U _d = 36 kV	TVM2/2999E
Temperature-rise tests	I _r = 1250 A	TVM1/101E/98
Mechanical operation test at ambient temperature, Low and high temperature tests	30.000 op. Cycles -5 / +55 °C	09-129-MM/E
Short-time withstand current and peak withstand current tests	I _{sc} = 40 kA/3s I _{ma} = 104 kA	09-054-MS/E
Short-circuit making and breaking tests	I _{sc} = 40 kA I _{ma} = 104 kA	09-054-MS/E



Berlin, September 08, 2011

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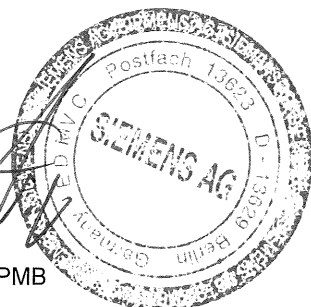
Siemens Aktiengesellschaft; Vorsitzender des Aufsichtsrats: Gerhard Cromme; Vorstand: Peter Löscher, Vorsitzender;
Wolfgang Dehen, Heinrich Hiesinger, Joe Kaeser, Barbara Kux, Hermann Requardt, Siegfried Russwurm, Peter Y. Solmsen
Sitz der Gesellschaft: Berlin und München, Deutschland; Registergericht: Berlin Charlottenburg, HRB 12300, München, HRB 6684
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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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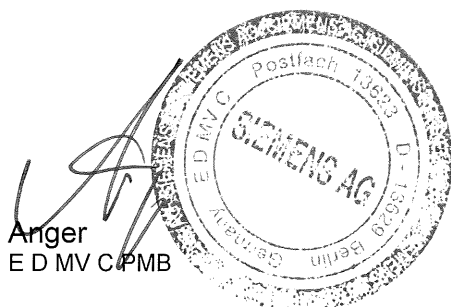
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In addition to the type tests in accordance with IEC 62271-1 and IEC 62271-100 the following tests were carried out:

Type Tests	Test Documents
Single-phase and double earth fault tests	09-054-MS/E
Capacitive current switching tests: -cable-charging current breaking tests -single capacitor bank switching tests	09-073-MS/E
Out-of-phase making and breaking tests	09-054-MS/E



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