

## Test Documents for Vacuum Circuit-Breaker 3AE5084-2 (7,2 kV, 25 kA, 1250 A)

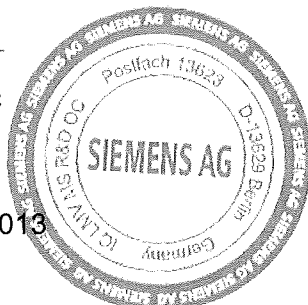
The vacuum circuit-breakers of type 3AE were type tested in accordance with

IEC Publication 62271-1, Edition 1.1, 2011-08,  
IEC Publication 62271-100, Edition 2.1, 2012-09 and the relevant harmonisation documents.

For vacuum circuit-breaker 3AE5084-2 the following test documents are valid:

| Type Tests  | Rated Values  | Test Documents |
|---|---|----------------|
| Dielectric tests  | $U_p = 75 \text{ kV}$<br>$U_d = 28 \text{ kV}$          | 12-088-MH      |
| Temperature-rise tests  | $I_r = 1250 \text{ A}$                                  | 13-003-ME      |
| Mechanical operation test at ambient temperature,<br>Low and high temperature tests | 10.000 op. Cycles<br>-5 / +55 °C                        | 13-035-MM      |
| Short-time withstand current and peak withstand current tests                       | $I_{sc} = 25 \text{ kA/3s}$<br>$I_{ma} = 63 \text{ kA}$ | 12-090-MS      |
| Short-circuit making and breaking tests   | $I_{sc} = 25 \text{ kA}$<br>$I_{ma} = 63 \text{ kA}$    | 12-089-MS      |

*i.v.f.*  
Dr. Freundt  
IC LMV MS R&D OC



Berlin, July 01, 2013

**Siemens AG**  
Infrastructure & Cities Sector; Leitung: Roland Busch  
Low and Medium Voltage Division; Leitung: Ralf Christian  
Medium Voltage & Systems; Leitung: Stephan May

Nonnendammallee 104  
13629 Berlin  
Deutschland

Tel.: +49 (30) 386 0

Siemens Aktiengesellschaft; Vorsitzender des Aufsichtsrats: Gerhard Cromme; Vorstand: Peter Löscher, Vorsitzender;  
Roland Busch, Brigitte Ederer, Klaus Helmrich, Joe Kaeser, Barbara Kux, Hermann Requardt, Siegfried Russwurm, Peter Y. Solmssen, Michael Süß  
Sitz der Gesellschaft: Berlin und München, Deutschland; Registergericht: Berlin Charlottenburg, HRB 12300, München, HRB 6684  
WEEE-Reg.-Nr. DE 23691322

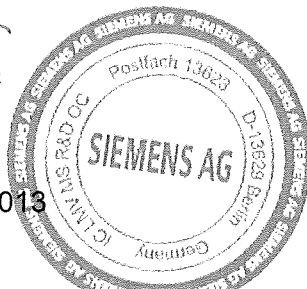
## Test Documents for Vacuum Circuit-Breaker 3AE5084-2 (7,2 kV, 25 kA, 1250 A)

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.

*i.v. Freund*

Dr. Freundt  
IC LMV MS R&D OC



Berlin, July 01, 2013

**Siemens AG**  
Infrastructure & Cities Sector; Leitung: Roland Busch  
Low and Medium Voltage Division; Leitung: Ralf Christian  
Medium Voltage & Systems; Leitung: Stephan May

Nonnendammallee 104  
13629 Berlin  
Deutschland

Tel.: +49 (30) 386 0

Siemens Aktiengesellschaft; Vorsitzender des Aufsichtsrats: Gerhard Cromme; Vorstand: Peter Löscher, Vorsitzender;  
Roland Busch, Brigitte Ederer, Klaus Helmrich, Joe Kaeser, Barbara Kux, Hermann Requardt, Siegfried Russwurm, Peter Y. Solmssen, Michael Süß  
Sitz der Gesellschaft: Berlin und München, Deutschland; Registergericht: Berlin Charlottenburg, HRB 12300, München, HRB 6684  
WEEE-Reg.-Nr. DE 23691322

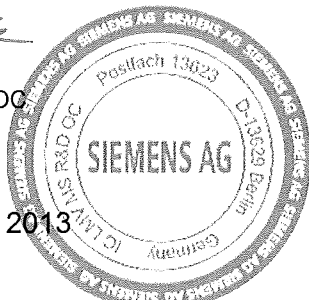
## Test Documents for Vacuum Circuit-Breaker 3AE5084-2 (7,2 kV, 25 kA, 1250 A)

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                                     | 12-089-MS      |
| Capacitive current switching tests:<br>-cable-charging current breaking tests | 11K0182-S      |



Dr. Freundt  
IC LMV MS R&D OC



Berlin, July 01, 2013

**Siemens AG**  
Infrastructure & Cities Sector; Leitung: Roland Busch  
Low and Medium Voltage Division; Leitung: Ralf Christian  
Medium Voltage & Systems; Leitung: Stephan May

Nonnendammallee 104  
13629 Berlin  
Deutschland

Tel.: +49 (30) 386 0

Siemens Aktiengesellschaft: Vorsitzender des Aufsichtsrats: Gerhard Cromme; Vorstand: Peter Löscher, Vorsitzender; Roland Busch, Brigitte Ederer, Klaus Helmrich, Joe Kaeser, Barbara Kux, Hermann Requardt, Siegfried Russwurm, Peter Y. Solmssen, Michael Süß  
Sitz der Gesellschaft: Berlin und München, Deutschland; Registergericht: Berlin Charlottenburg, HRB 12300, München, HRB 6684  
WEEE-Reg.-Nr. DE 23691322