

Test Document

Report No.: 03-037-MH/E

Copy No.: 0

Contents: 14 sheets

Equipment under test: Three-pole vacuum circuit-breaker 3AH5273-2 (24 kV, 20 kA, 1250 A) with vacuum interrupters VS 25005

Manufacturer: Siemens AG, PTD M C PB1, 13623 Berlin

Client: Siemens AG, PTD M C R&D VCB 13, 13623 Berlin

Testing station: Siemens AG, Prüffeld der Schaltwerke, Berlin

Date of test: April 30-2003

Applied test specifications:

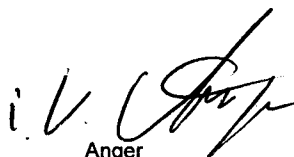
IEC Publication 60694, edition 2.2, 2002-01

DIN EN 60694 (VDE 0670, Teil 1000), 2002-09

Tests performed: Dielectric tests, including:
Short-duration power-frequency withstand voltage: 50 kV
Lightning impulse withstand voltage: 125 kV

Test results: The apparatus tested has passed the above indicated tests without any objection. The results obtained and the proved performance comply with the requirements mentioned above.

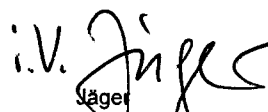
Siemens Aktiengesellschaft
Prüffeld der Schaltwerke, Berlin


Anger

Manager of Prüffeld der Schaltwerke

Medium Voltage Division




Jäger
Manager of High-Power/High Voltage
Testing Department
Medium Voltage Division

Berlin, May 19-2003

The test results exclusively
relate to the items tested.



DAT-P-017/92-01

Technical Data of Test Object

Switching Device

Ratings assigned by the manufacturer

Test object: Three-pole vacuum circuit-breaker with vacuum interrupters VS 25005
Type: 3AH5273-2
Manufacturer: Siemens AG, PTD M C PB1
Serial No.: 3AH5/00012873 **Year of manufacture:** 2003
Drawing No.: Drawings and part lists - see sheet 6

Rated voltage	24	kV
Rated lightning impulse withstand voltage	125	kV
Rated switching impulse withstand voltage	-	kV
Rated short-duration power-frequency withstand voltage	50	kV
Rated frequency	50	Hz
Rated normal current	1250	A
Rated peak withstand current	50	kA
Rated short-time withstand current	20	kA
Rated duration of short-circuit	3	s
Rated short-circuit breaking current		
Rated short-circuit current	20	kA
D.C. component	36	%
Rated short-circuit making current	50	kA
Rated transient recovery voltage		
Peak value	41	kV
Rate of rise	0.47	kV/μs
First-pole-to-clear-factor	1.5	
Rated operating sequence	O-0.3s-CO-3min-CO	
Arc extinguishing medium	vacuum	
Rated pressure (20 °C) (absolute)	< 0.01	Pa
Insulating medium	air	
Rated pressure / Minimum pressure (20 °C)	-	MPa
Driving mechanism		
Type of drive	spring/motor	
Rated voltage	110	V DC
Number of poles	3	
Number of units per pole	1	
Rated opening time	< 65	ms
Rated closing time	< 75	ms
Rated voltage of opening release	110	V DC
Rated voltage of closing release	110	V DC
Rated supply voltage	-	V DC
Rated frequency of supply voltage	-	Hz
Further specifications:		
Tube in pole R	S.-No.:	45023
Tube in pole S	S.-No.:	45025
Tube in pole T	S.-No.:	44891

Essential characteristics: -

Remarks: -