SIEMENS

Test Document

Report No.: 04-026-MM/E Copy No.: 0 Contents: 18 sheets

Equipment under test: Three-pole vacuum circuit-breaker 3AH5272-2 (24 kV, 16 kA, 1250 A) with

vacuum interrupters VS 24016

Manufacturer: Siemens AG, PTD M C PB1, 13623 Berlin
Client: Siemens AG, PTD M C R&D 1, 13623 Berlin
Testing station: Siemens AG, Prüffeld der Schaltwerke, Berlin

Date of test: From May 05-2004 till June 14-2004

Applied test specifications:

IEC Publication 60694, Edition 2.2, 2002-01 DIN EN 60694 (VDE 0670, Teil 1000), 2002-09 IEC Publication 62271-100, 1st edition, 2001-05 DIN EN 62271-100 (VDE 0671 Teil 100), 2004-04

Tests performed: Mechanical operation test at ambient air temperature

Low and high temperature test (-25°C / +55°C)

Extended mechanical operation test (M2, 10.000 operations)

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

Manager of Prüffeld der Schaltwerke Medium Voltage Division Siemens AG

Berlin

Berlin

Mittels Patrol

Manager of Mechanical Testing Department
Medium Voltage Division

Berlin, Dezember 17, 2004

The test results exclusively relate to the items tested.



DAT-P-017/92-02



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Technical Data of Test Object

Switching Device

Ratings assigned by the manufacturer

Test object: Three-pole vacuum circuit-breaker

Type: 3AH5272-2

Manufacturer: Siemens AG, PTD M C PB1

Serial No.: Year of manufacture: 2004 3AH52/00000497

Drawing No.: Drawings and part lists - see sheet 6

Rated voltage		- -	kV
Rated lightning impulse withstand voltage		125	
Rated switching impulse withstand voltage			kV
Rated short-duration power-frequency withstan	d voltage		kV
Rated frequency			Hz
Rated normal current		1250	Α
Rated peak withstand current		40	kA
Rated short-time withstand current		16	kA
Rated duration of short-circuit		3	S
Rated short-circuit breaking current			
Rated short-circuit current		16	kA
D.C. component		36	%
Rated short-circuit making current		40	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-0.3	Bs-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		motor / spring	
Rated voltage		110	V DC
Number of poles		3	
Number of units per pole		1	
Rated opening time		< 65	
Rated closing time		< 75	ms
Rated voltage of opening release			V DC
Rated voltage of closing release			V DC
Rated supply voltage			V DC
Rated frequency of supply voltage		50	Hz
Further specifications:		4.4555	
Tube in pole R	S -No ·	14506	

Tube in pole R S.-No.: 14506 Tube in pole S S.-No.: 14427 Tube in pole T S.-No.: 14428

Essential characteristics:

Remarks: