

Summary of type tests for Vacuum Circuit-Breaker 3AE2565-2 (12 kV, 31,5 kA, 1250 A)

The vacuum circuit-breakers of type 3AE2 were type tested in accordance with

IEC/IEEE Publication 62271-37-013, 2015-10

IEC Publication 62271-1, Edition 2.0, 2017-07

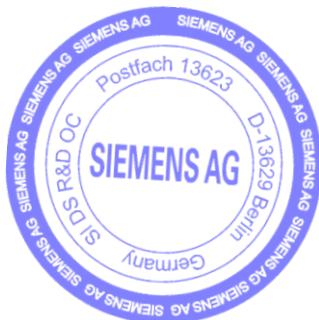
and the relevant harmonisation documents.

For vacuum circuit-breaker 3AE2565-2 the following test documents are valid:

Type Tests	Rated Values	Test Documents
Dielectric tests <i>Rated insulation levels according to IEC 62271-1</i>	$U_P = 75 \text{ kV}$ $U_d = 28 \text{ kV}$	19-052-MH
Temperature-rise tests	$I_r = 1250 \text{ A}$	18-058-ME
Mechanical operation test at ambient temperature, Low and high temperature tests	10.000 op. Cycles -25 / 55 °C	20-004-MM 19-099-MM
Short-time withstand current and peak withstand current tests	$I_k = 31,5 \text{ kA/3s}$ $I_p = 87 \text{ kA}$	KEMA 2134-19
System-source short-circuit current making and breaking tests (with DC-Time constant $\tau = 133 \text{ ms}$, and shortest opening time = 20 ms)	$I_{sc} = 31,5 \text{ kA}$ DC = 65 %	KEMA 2134-19
Generator-source short-circuit current making and breaking tests, Class G1	$I_{scq} = 25 \text{ kA}$ DC = 110 %	KEMA 2134-19
Generator-source short-circuit current making and breaking tests, Class G2	$I_{scq} = 18,5 \text{ kA}$ DC = 130 %	KEMA 2134-19
Out-of-phase making and breaking tests	$I_d = 23 \text{ kA}$ DC = 25 %	KEMA 2134-19 KEMA 2133-19

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Berlin, April 28, 2021

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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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