

ROUTINE TEST SCHEDULE - TESTS

Test	Procedure	Readings	Test criteria
Measurement of winding resistance	Measurement with direct current (Phase to Phase) on high and low voltage sides	Reading is required to calculate load losses and entry on the test log	None
Measurement of the voltage transmission ratio and checking the vector group	Using the measuring bridge for transmission ratio measurements	Discrepancies for guaranteed transmission ratio are noted	Guaranteed transmission ratio in accordance with DIN/VDE
Measurement of impedance (Short circuit voltage u_k^*) and load losses	Low voltage side is short-circuited, power supply from the high voltage side with 10%-50% of the rated current. Measurement of the current, voltage and load losses of each phase using digital meters. Calculation of losses and u_k^* with reference to rated current and 75 °C.	Entry of readings into the test log	Guaranteed values in accordance with DIN/VDE
Measurement of no-load losses and no-load current	Transformer power supply with rated voltage on the low voltage side. Measurement of the current, voltage and no-load losses using digital meters.	Entry of readings into the test log	Guaranteed values in accordance with DIN/VDE
Insulation test (?applied voltage test“)	Test for insulation winding against earth and winding against winding by using a single-phase test transformer	Test voltages in accordance with DIN/VDE	Passing the test, no flash over
Alternating current voltage test (? induced voltage test“)	Transformer power supply from the low voltage side	Double rated voltage of 200 Hz, Time: 1 Minute	Passing the test, no flash over
Measurement of insulation resistance	Metriso Meters	Entry of readings into the test log	Readings above 10.000 M Ω .
Partial discharge test	Three-phase power supply. Run on 180% of the rated voltage: Impulse phase. Run on 130% of the rated voltage: Measurement	Partial discharge gauge less than or equal to 20 pC or customer demand inclusive factor	Readings less than or equal to specification
Visual inspection			