

DATA SHEET

Surge tester **ST 4000B**



Surge tester ST 4000B
Tabletop unit 19" / 6 HU

Description	Winding goods such as stators, coils or transformers can be examined precisely and conveniently with the new ST 4000B surge and partial discharge tester. Winding shorts and insulation faults within a winding can thus be detected before the fault affects the test item. Failures of electric motors and associated recalls can thus be avoided. The integrated partial discharge measurement is ideally suited for use in the laboratory and in production. Active sensors are available for partial discharge measurement, enabling reproducible measurements.	
Surge voltage test	Voltage	100 to 6,000 V
	Impact capacity	18 nF, optional: 40 nF, 100 nF (other capacities on request)
	Evaluation method	Error area, differential error area, tolerance band as well as symmetry evaluation
	100 ns typical switch-on time according to EN 60034 High-resolution recording of the surge voltage curve for precise evaluation	
Partial Discharge test	Voltage measurement	100 to 6,000 V
	Measurement method	according to IEC 61934
Voltage back measurement (optional)	At the DUT connection	100 to 6,000 V
	For compensation at harmonics	
High voltage test DC	Voltage range	100 to 6,000 V / 10 mA
Insulation measurement DC	Measuring range	100 to 6,000 V, 10 GΩ / kV
Resistance measurement (optional)	Measuring range	20 mΩ to 200 kΩ, max. 1A
Internal matrix	4 phases + PE, 4-wire	
General data	PC software	DAT
	Dimensions (HxWxD) and weight	340 x 553 x 600 mm / approx. 50 kg (1.33 x 2.17 x 2.36 in.)
	Mains supply	90 to 250 V, 50 Hz / 60 Hz
Interfaces	Peripheral interface	USB, HDMI
	Remote interfaces	Ethernet / LAN
Operation	Touch	15,6"-Touch Monitor, Full HD
Optional extensions in external housing	High voltage test AC, rotational direction detection, inductance measurement, capacitance measurement	
Accessories	Partial discharge measuring antenna(s), environmental sensor, DUT contacting, workplace design	