Test station to DIN EN 50191

for high-voltage testing and EOL testing

AT A GLANCE

DIN EN 50191
Test station to VDE 0104

S, M, L
Sizes as guide values, also custom-made

3 tests
High voltage, insulation and protective conductor

For each test item
Serial number, test date and measured values in the report



Size S

Size L, walk-in

With the NIKLAS Test Field you test control cabinets, machines and assemblies for high voltage, insulation and protective conductor at a test station to DIN EN 50191, also at the end of production. We plan the set-up and test sequence around your test item.

Tests

- High-voltage test (dielectric strength)
- Insulation resistance
- Protective conductor resistance
- Monitoring of the trip current
- Functional test according to your test specification
- Routine test at the end of production (EOL)
- Sequence and limit values according to the product standard
- Measured values for each test item in the test report

Equipment

Interlocked test area
Testing only with the guard closed, opening only after switch-off.

Discharge and earthing
Discharge or earthing of the test item after the test.

Emergency stop and switching states
Emergency stop for the test area and display of the switching states at the test station.

Test item fixture
Fixture with contacting for your control cabinets, machines or assemblies.

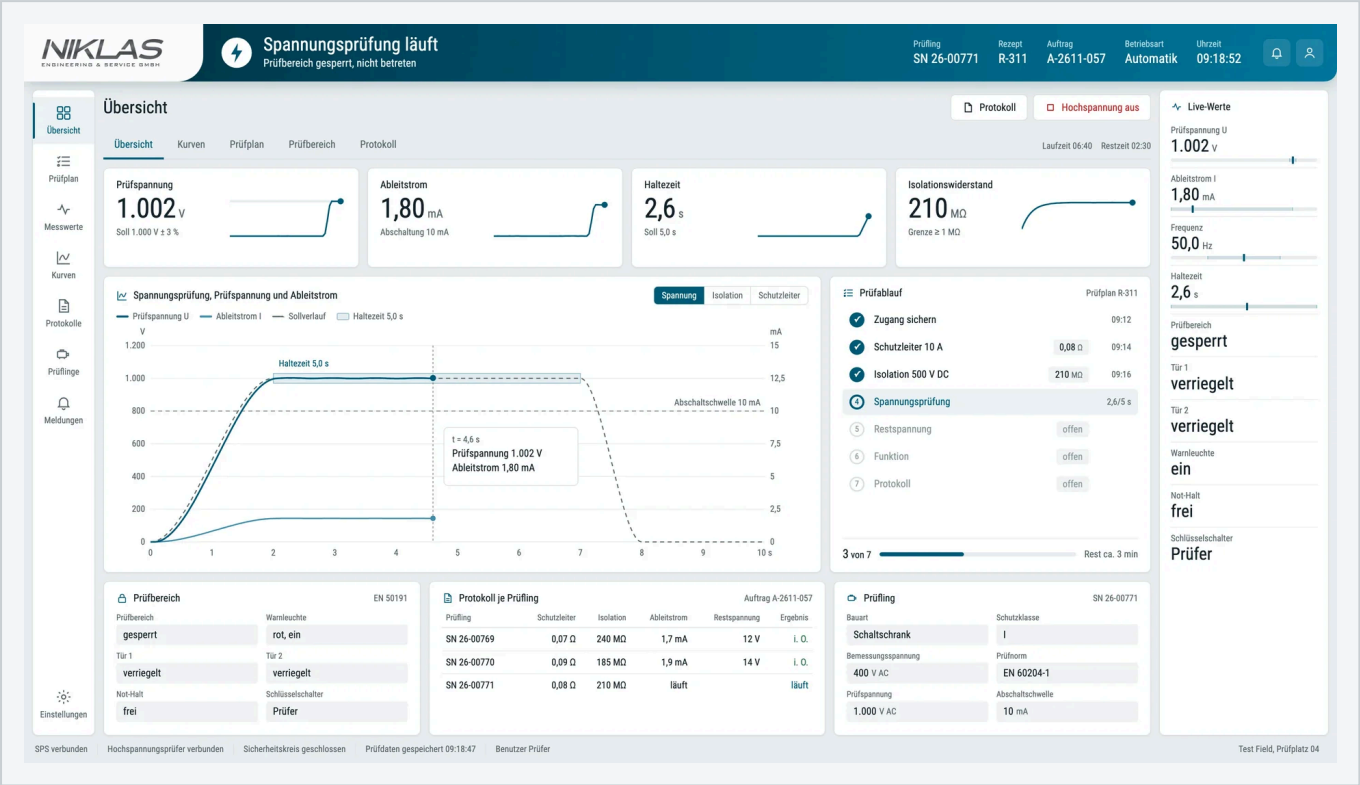
Technical data

Feature	Specification
Standard	DIN EN 50191 (VDE 0104)
Test items	Control cabinets, machines, assemblies
Tests	High voltage, insulation, protective conductor, functional test
Sizes	S, M, L (guide values) or custom-made
Test area	interlocked, testing only with the guard closed, opening only after switch-off
Safety devices	Emergency stop, display of switching states, discharge or earthing of the test item
High-voltage tester	Hipot tester, integrated and controlled by the software
Test voltage	up to 5 kV AC and 6 kV DC, depending on the integrated hipot tester
Test current	up to 100 mA AC and 5 mA DC, adjustable current limit
Insulation measurement	50 to 1,200 V DC, up to 10 GΩ
Protective conductor test	2 to 32 A AC, four-wire measurement
Test space per size (W × D × H)	S 800 × 600 × 500 mm, M 1,200 × 800 × 700 mm, L 1,500 × 1,500 × 2,100 mm, internal dimensions
Test item weight	S up to 50 kg, M up to 150 kg, L up to 2,000 kg at floor level with pallet truck
Test report	Serial number, test date and measured values for each test item
Mains connection	230 V AC 16 A, with functional test 400 V 3/N/PE up to 63 A

Options

- Size S, M or L, also custom-made
- Functional test of the test item as an EOL test station
- Connection to MES, ERP or test data system, clarified in advance

Software



The test software controls the hipot tester, guides the operators through the stored test sequence and records the measured values for each test item in the test report.

Request a quotation

Tell us the type, dimensions and weight of the test item, test voltage or power, the tests you require, tests per day, your standards and the installation site with mains connection. Rough information or a photo with the rating plate is enough.

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