

Circuit-Breaker & Relay Test Bench

CAPABILITY SHEET - SWITCHGEAR PROTECTION TESTING - PRIMARY + SECONDARY INJECTION - ENGINEERED TO ORDER

THE SYSTEM

WHAT	It injects a controlled fault into a circuit breaker or relay and measures whether it trips correctly - proving the protection operates before a real fault does.
OUR ROLE	Neometrix engineers the bench, the high-current injection source, fixturing, console, measurement and automation; the relay test set and micro-ohmmeter are bought-in.
STATUS	Engineered to order; configured to the switchgear class and the standard. No specific delivered system is claimed on this sheet.

THE TEST

BREAKERS	Primary high-current injection traces the time-current tripping curve; timing, contact resistance (micro-ohm), insulation and coils check the mechanism - MCB, MCCB, ACB.
RELAYS	A secondary-injection test set verifies pickup, dropout and operating time; numerical relays are tested by three-phase injection across their protection functions.
MEASURE	Trip and operating time, pickup and dropout, contact resistance, coil current and insulation - measured, evaluated to the standard and recorded in a traceable report.

THE BENCH

INJECTION	The high-current primary-injection source - transformer, variac control, heavy busbar and contacts, shunt - is a fabricated electrical rig, sized to the device.
INSTRUMENTS	The protective-relay secondary-injection and numerical-relay test sets and the precision micro-ohmmeter are bought-in specialist instruments, integrated into the bench.
CONSOLE + AUTOMATION	The console, routing, fixturing, PLC/PC automation and reporting, and the guarded, interlocked safety turn the instruments into a repeatable test line.

DISTINCT & HONEST

STANDARDS	Tested and evaluated to IEC / IS 60947 (LV switchgear), IEC 62271 (HV switchgear) and IEC 60255 (measuring relays and protection).
OUR FRANCHISE	It is an electrical, test-rig, controls and fabrication problem - our competence; the specialist injection test sets and micro-ohmmeter are bought-in.
ENGAGEMENT	Send the device class and the standard to sales@neometrixgroup.com for a clause-by-clause compliance matrix in two working days.

PROJECTS DESK

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