

Product Name :
Endurance Test Setup For Switches

Product Code :
ELAB-TEST0002



Description :

Endurance Test Setup For Switches

Technical Specification :

Normal Operation (Referred to as CI 19.1 in IEC 60669, IS 3854 and BS EN 60669)

Making and Breaking Capacity (Referred to as CI 18.1 in IEC 60669, IS 3854 and BS EN 60669)

Temperature Rise (Referred to as CI 17 in IEC 60669, IS 3854 and BS EN 60669)

Fluorescent Lamp Load (Referred to as CI 19.2 in IEC 60669, IS 3854 and BS EN 60669)

Tungsten Filament Lamp Load (Referred to as CI 18.2 in IEC 60669, IS 3854 and BS EN 60669)

The above tests can be chosen by the customer in tailor made manner, meaning that the user may choose only those tests which are required for the testing needs. Even the switch current ratings can be chosen from the list of ratings: 6, 10, 13, 15, 16, 20, 25, 32, 45 Amp making the bench easy to procure depending upon the testing needs and the budget of the client.

The system essentially consists of a servo controlled constant voltage / current source, a PLC module for controlling the on-off sequence (with user specified on and off time and number of cycles), a measurement module (including current and potential transformers) to measure and display current, voltage and p.f., an adjustable load bank designed as per the IEC specification and a pneumatic based fixture for ON-OFF operation. The PLC module is interfaced with an indigenously designed contact weld-contact open diagnostic circuit which helps in diagnosis of the switch under test: It points to the exact number of cycles the switch under test has withstood after suffering either welding or opening of contacts (switch failure) prematurely before the IEC / IS / BS stipulated number of cycles are completed.

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Elab Engineering Equipments Manufacturers