

Specification for Surge Comparison Tester 10 KV.

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Description:- The unit shall be used for testing of Armature of Traction Motors as well as single phase and three phase coil windings of Induction Motors. The Surge Comparison Tester should be PC based

Technical Specification:-

The unit shall have two test positions

Test Position -I

Test Voltage- : 0 -10 KV adjustable. For testing of Stator winding.

Pulse Current : 650 Amps. max.

Pulse Energy : 5 Joules max. only Two Channel.

Test Position -II

Test Voltage- : 0 -1 KV For testing of Armature only.

Pulse Current : 1000Amps. max.

Pulse Energy : 2.5 Joules max. only one Channel.

Induction of the object : Min. 10 μ H

Voltage setting Accuracy : \pm 2%.

Pass Fail Detector : By Area Comparison
By Differential area Comparison
By Corona Comparison

Coil to Coil Comparison : Wave from storage and comparison

No. of cycles to be compared : Able to compare predefined cycles by setting start and end points of wave from to be compare.

AC/DC high voltage test Equipment

DC HV Test : Test voltage 0-10 KV (Adjustable)
Trip Current 10 μ A / 100 μ A/ 1000 μ A.

AC HV Test : Test voltage 0-10 KV (Adjustable)
Trip Current 0-20ma.

Insulation test Equipment

Mega Ohm Meter-LS3C : Test voltage 50/1000 Volt.
Range 0.1 to 20,000,000 Mega Ohms.
Input 230 Volts 50 Hz.

Display : Surge Comparison Tester should be PC based . The Display will be through PC which will store all the data and will be converted to excel format or PDF

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Surge Frequency : 50Hz \pm 3%.
Sweep : Variable.
Operating Voltage : 230 Volt \pm 10% at 50Hz.
Power consumption : 330 Watt \pm 10%
Dimensions : 470(W) x 330 (H) x 585(D)mm. (approx) \pm 5 % variation in each dimension
Weight : 40 Kg. (approx) \pm 5 Kg

Other Conditions

- The equipment shall be under warranty/guaranteed for two years from the date of successful commissioning on the equipments at ELS/TKD.
- The decision of Railway in regard to the cause of failure or nature of rectification to be carried out by the supplier during guarantee period shall be final and binding on the part of contract.
- The transportation will be at the supplier cost during warranty / guarantee repairs.
- Technical literature:- Contactor has to supply at least 02 copy of technical literature / operating manual along with diagram circuit equipment.
- Training:- The supplier shall provide training for operating maintenance and trouble shooting of problems generally arises in handling of equipment.
- Inspection:- Inspection may be carried out by agencies like RITES /RDSO. After receipt of item at shed it will also be inspected by Sr DEE/TRS/ELS/TKD's representative.
- Commissioning of Equipment:- Commissioning of equipment at consignee place with out any obligation.

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Annexure-II

To be submitted by the firm along with offer-

Tender specification as per Annexure-I	Specification quoted by the firm	Deviation if any with clarification

Signature of firm's