

CERTIFICATION OF TEST REPORTS

Lake Shore Electric Corporation, a manufacturer of Automatic and Manual Transfer Switches marketed under the Trans-O-Matic trade name and Bypass Isolation Switches, hereby certifies the testing of its complete line of products as follows

1. Normal Operations testing of undervoltage sensing and voltage frequency sensing on the emergency side to verify that at rated voltage and frequency the control circuits function properly.
2. Overvoltage testing at 110% of rated voltage. The overvoltage performance has been tested for continuous duty at this potential.
3. Undervoltage testing of the phase voltage sensing relay proved capable of withstanding 95% of its rated pull in voltage for a period of 4 hours without damage.
4. Overload testing of the transfer switch. The transfer switch has been subjected to 50 complete operations at six (6) times its rated current at a power factor of .4 to .5.
5. A temperature rise test was completed on the various points of the transfer switch. Temperature rise points meet specifications as outlined in UL Table 26.1. Major critical areas are 50 degrees C rise at the field wiring terminals and 65 degrees C rise at the bus bar or contacts.
6. Endurance tests were performed for 3,000 operations; 750 of which were at 100% rated current, 750 of which were at 200% rated current, 1,500 of which were at no-load condition.
7. Dielectric Voltage Withstand test was then performed on the transfer switch, subjecting it to a sinusoidal potential of 2,200 volts.
8. Current Withstand tests have been performed at a minimum of 20 time the rated current of the transfer switch, but not less than 10,000 amps. Testing was performed at a .2 power factor.
9. Dielectric Voltage Withstand tests were again performed at the conclusion of the above tests, subjecting the switch to a sinusoidal potential of 1,200 volts.
10. In addition to the above test, Lake Shore Electric Corp. has coordinated our test results under UL 1008 with results achieved under UL 489 and proved reliability and performance of its Automatic Transfer Switches, above the performance requirements of UL 1008. These results can be found on LSEC Bulletin 07710.
11. Additionally, higher performance data can be substantiated from UL test results, based on the utilization of alternative components. Due to the array of data available, all results can not be published in Bulletin 07710. Consult the factory for specific applications.



LAKE SHORE ELECTRIC CORPORATION

205 WILLIS STREET • BEDFORD, OHIO 44146 • (440) 232-0200 • fax (440) 232-5644