

# VB MEDIUM VOLTAGE AUTOMATIC TRANSFER SWITCH

## Description

The Lake Shore Electric Corporation Vacuum Breaker (VB) Medium Voltage Automatic Transfer Switch provides dependable, positive, transfer to an emergency power source in the event of normal power source failure. The switch returns the system to the normal power source in an orderly fashion when normal power is restored. In the event that the emergency source fails, the switch will automatically return to the normal source when it becomes available, bypassing all time delays.

Our VB Series switch is offered in fixed or draw out designs. Much like our low voltage transfer switches, we can offer flexibility in our designs such as : special bussing to close couple to bus duct; special bussing to close couple to existing switchgear; service entrance rating; separate cable pull sections; front accessibility; side accessibility; utility metering sections; additional sections for related controls and monitoring; incorporation of monitoring and special protective equipment.

Lake Shore Electric Corporation VB Medium Voltage Automatic Transfer Switches utilize two electrically and mechanically interlocked vacuum circuit breakers. Each breaker, whether fixed or draw out utilizes a two-step stored energy mechanism. The breaker features a 3-Cycle (50ms) interrupting time, with mechanical endurance up to 20,000 operations. Try to find a load break switch that can accomplish that feat!

The transfer switches are available in current ranges from 600A, 1200A, 2000A, and 2500A with Short Circuit KA rms ratings up to 40. They are equipped with spring charging motor, manual charging handle, manual mechanical close/open pushbuttons, open/closed mechanical position indicators, stored energy operators, and spring charged/discharged indicators.

## Features

The VB Medium Voltage Automatic Transfer Switch can be used in a wide variety of applications. It provides the ability to do much more than simply connect the load to either the normal source or the emergency source.

Service Entrance, Closed Transition, Generator Differential Protective Relays, Surge Suppression, and digital meters are some of the accessories that can be added to the VB Medium Voltage Transfer Switch.

The VB's innovative design offers overcurrent protection integral to the vacuum breaker, negating the need for separate overcurrent protective relays. These trips are available in the normal or emergency side of the ATS, offering LI, LSI, or LSIG functions with or without communications capabilities.

Safe manual operation of the transfer switch, under load, is a basic capability that all transfer switches should offer. We are proud that all of our switches are manually operable, under load, without danger to the operator or damage to connected equipment. Manual operators are permanently installed to facilitate testing and maintenance.

The VB Series combines proven vacuum technology and microprocessor-based logic. The Our MP7600 microprocessor based controller is a robust and highly dependable controller, which is a top of the line product with unsurpassed features



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