Is a bolted pressure switch the main disconnect for your facility?

Bolted Pressure Switch Solutions from Schneider Electric Services

Increase the Reliability of Your Electrical Distribution System

Through the years bolted pressure switches have been installed as the main disconnect for facilities all over the country and most facility personnel never give them a second thought. A bolted pressure switch is easy to identify by its long operating handle that compresses the operating mechanism spring.

To help ensure its reliable operation, periodic maintenance, cleaning and lubrication of a bolted pressure switch is required. Failure to properly maintain this switch could result in costly downtime, especially if it serves as the main disconnect for your entire facility. Schneider Electric Services provides a range of services designed to extend the life of your bolted pressure switch and increase the reliability of your electrical distribution system. Based upon your specific needs or preferences, we offer:

- **Preventive maintenance** for your existing switch
- **Replacement and upgrade** of your existing switch with a Square D™ Type B-L Bolt-Loc™ switch
- **A retrofit solution** with the Masterpact NW™ circuit breaker

Any brand. Any industry. Any time.

Make the most of your energy™
Preventive Maintenance Solutions

Our qualified field service representatives perform a comprehensive scope of work, based upon manufacturers’ specifications for all rated switches. Preventive maintenance, including visual inspection and exercising the operating mechanism, should be performed once a year. Thorough cleaning and lubrication should occur every three to five years, depending upon the amount of usage and ambient conditions. Molybdenum Disulfide Grease is recommended for the Square D Bolt-Loc switch; refer to our 2008 Lubrication Manual for other manufacturers’ recommendations.

Replacement and Upgrade Solutions

Aging or inoperable bolted pressure switches can be upgraded with a new Type B-L Bolt-Loc switch. This solution includes:
- Remove and dispose of the old/inoperable switch
- Clean and inspect the switch compartment, including bus connections
- Identify damaged or non-functioning accessories
- Install the new Type B/L Bolt-Loc Switch, which is covered by a one year warranty
- Reconnect all accessory wiring and install accessories (existing and/or new)
- Accessory replacement or repair can be provided at an additional charge
- Perform Schneider Electric Services’ standard start-up procedure for low voltage air switches

Retrofit Solution

What is a retrofit? Simply put, the switch compartment is reconfigured to accept a new Masterpact NW circuit breaker. Utilizing the existing structure represents an economical alternative to purchasing new equipment.

Using the upgraded technology of our Masterpact NW insulated case circuit breaker, a retrofit solution provides solid state protection and reduces maintenance requirements. In fact, under normal operating conditions, Masterpact circuit breakers do not require maintenance.

A Masterpact NW low voltage circuit breaker is retrofilled into the switch compartment of the old bolted pressure switch. The retrofit design includes the associated draw-out mechanism, doors, wiring, metering, bussing, fasteners and hinges.

Masterpact circuit breakers provide:
- Integral ground-fault protection for equipment
- High interrupting ratings and withstand ratings
- Communications
- Power monitoring
- Protective relaying functions
- Zone-selective interlocking (ZSI) which can reduce damage in the event of a fault

Masterpact NW circuit breakers are designed to protect electrical systems from damage caused by overloads, short circuits and equipment ground faults. They also feature a quick opening design for arc flash protection without fuses. Masterpact circuit breakers enhance coordination by their adjustability. Circuits can be open and closed manually or automatically at a predetermined overcurrent setting.

Why Choose Schneider Electric Services?

As part of Schneider Electric, the global specialist in energy management, you can count on Schneider Electric Services to help manage the life cycle of your equipment, no matter what brand it is.

Our nationwide team of professional engineers and qualified field service representatives is committed to providing you with innovative solutions, best-in-class customer service, advanced technical support, and exceptional quality in everything we do!