

Increased Ratings for Federal Pacific 15kV Auto-jet® II Switches 1200 Amperes Continuous and Interrupting 61,000 Amperes Fault Closing

In 2007, Federal Pacific introduced several key design enhancements applicable to Pad-Mounted Switchgear and Metal-Enclosed Switchgear. These product enhancements have been appearing in various models of PSI/II, PLD and PSE Pad-Mounted Switchgear. Included in these changes is the latest 15kV Auto-jet® II Switch rated to 1200 amperes continuous and interrupting, 61,000 amperes fault closing that is featured in this publication.

UL-witnessed testing at KEMA Laboratories in Chalfont, PA proved higher ratings capabilities for Federal Pacific equipment. The new UL® Listed ratings include a 61,000 ampere, asymmetrical, one-time duty-cycle fault-closing rating and a 1200 ampere continuous current carrying capability all at 15 kV. These ratings were achieved with Federal Pacific's Auto-jet Switch in an enhanced design configuration to attain the extremely challenging one-time duty-cycle fault-closing rating.

The enhancements to the switch to attain the 61kA rating, include supplementing the standard switch blade with additional mass and therefore higher current-carrying capability; imbedding copper-tungsten contacts into the main-contact stab to further influence the effectiveness of the blade as it transfers current in the fault-closing mode; and raising the spring force to accommodate the additional mass of the blade while also increasing the blade closing speed.

The ability to provide switches that have been tested at a lab and witnessed by a third party and that can be used in both Federal Pacific Pad-Mounted and Metal-Enclosed Switchgear increases

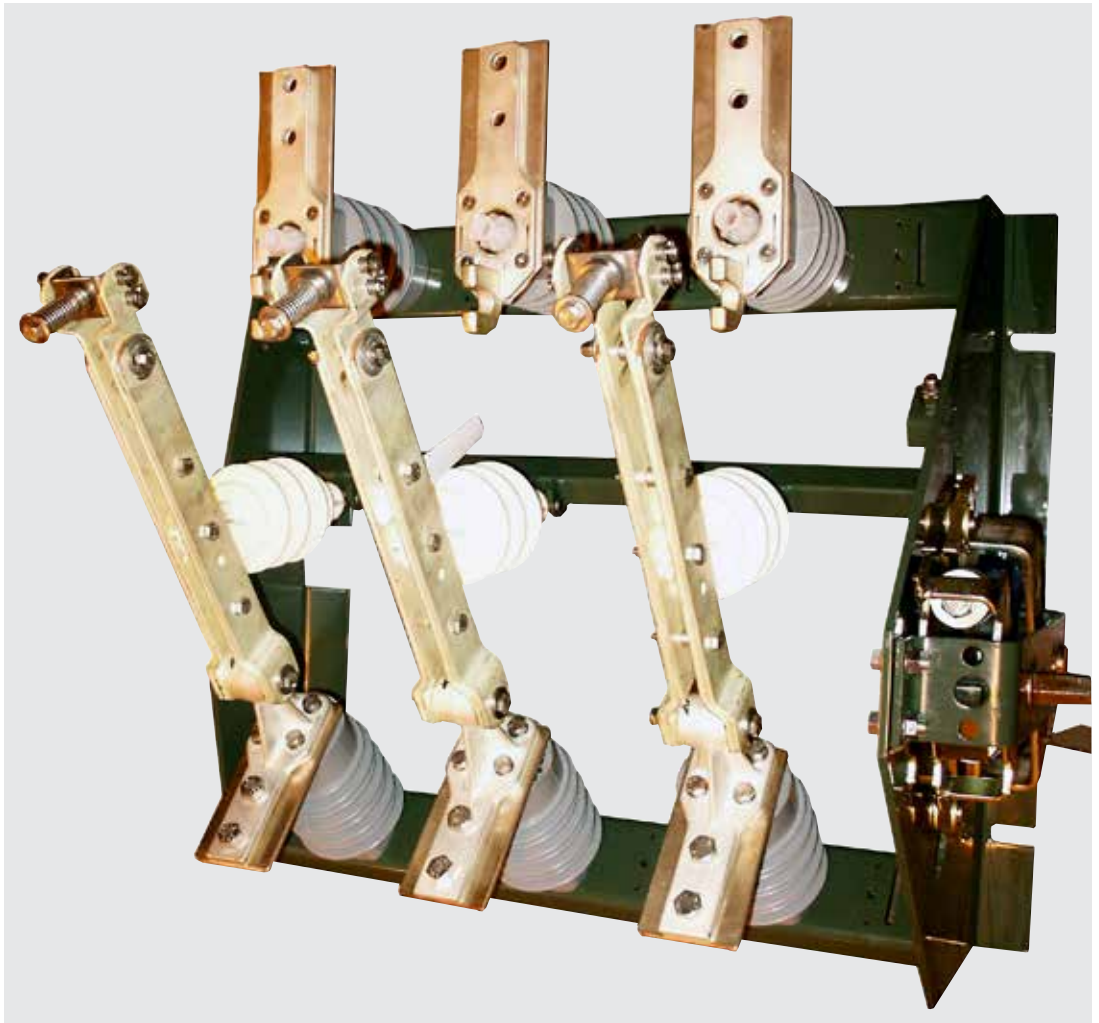


Figure 1. The rugged durability of Federal Pacific 15kV Auto-jet® II Switches is further expanded to 1200 amperes continuous and achieves a fault-closing rating of 61,000 amperes rms asymmetrical (38,000 amperes rms symmetrical)

your opportunities to sell Federal Pacific equipment. Applications requiring these capabilities are often found at industrial complexes and at some utilities where the ability to limit fault current duty may not be possible.

UL-witnessed testing assures potential customers that Federal Pacific equipment meets or exceeds all the industry requirements. The testing not only proves the superiority of the Federal Pacific Auto-jet Switch, but also further verifies the integrity and rigidity of the bus interconnections and of the enclosure.

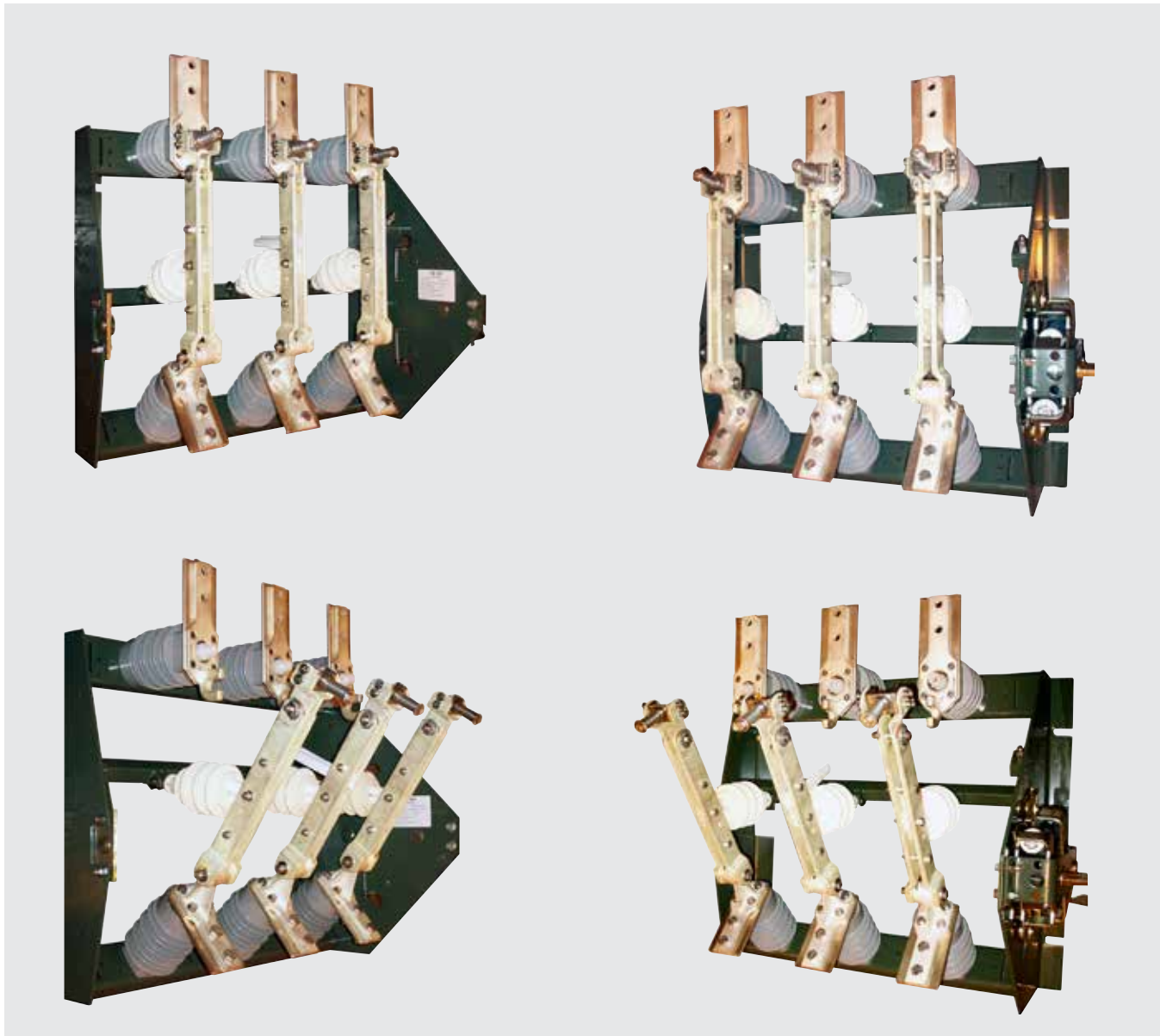


Figure 2. The Federal Pacific 15-kV, 1200-ampere load-break interrupter switch rated to 61,000 amperes rms asymmetrical fault closing, 1200 amperes continuous AND interrupting is pictured above. The 1200 ampere switch pictured differs from the 600 ampere switch only in changing the puffer-spring material and in providing reinforcement to the contact assemblies and switchblades to add material essential to sustaining the 1200 ampere ratings and the extremely severe 61ka momentary and fault closing requirement. The 1200 amp, 61kA switch is a listed component by Underwriter's Laboratories.

