FOLDING VERTICAL BREAK SWITCH – VG1

Robust & Reliable

The Folding Vertical Break is designed with a simplicity that makes it reliable and easy to operate and maintain.

All the mechanical transmission components are accessible from outside the current path. There are no parts hidden inside the conductors.

Twin gear-set/pull-rod assemblies provide easy adjustment and stability.

All parts are fabricated from extruded aluminum or machined from solid billet materials, such as 304 stainless steel and hard drawn copper.

NO CASTINGS

COMPACT DESIGN

The height of the blade in the open position is only 50% of a comparable conventional vertical break disconnector. Therefore, crossing structures and/or bus may be lower as well. Because of the lower height, the FVB is less sensitive to wind and earthquakes.

The Folding Vertical Break or Knee type disconnect switch is a much better balanced system than a conventional vertical break, providing smoother and faster operation with less mechanical stress in the transmission chain.

In the closed position, under severe wet snow or ice buildup, the added weight on each half-blade section self-compensates each other. As a result, the added load (weight) on the blade does not increase the operating effort, making the FVB the best solution for rugged climate.

EASY INSPECTION/MAINTENANCE

The contact pressure is provided by well proven spring-loaded contact fingers. The mechanically actuated jaw systems of other semi-pantographs is not necessary.

 접촉 압도는 잘 알려진 봉합 플러스 로드를 사용하여 제공되며, 다른 semi-pantographs의 기계 작동 있는 공판계는 필요하지 않습니다.

The gear-sets are doubled for greater reliability. Made from aircraft grade high strength aluminum. It has been tested for 2 000 reliable cycles. Contrary to the trend, EMSPEC chose not to hide the mechanical transmission inside the tube of the conductors. Therefore, this important function is easily accessible for inspection or maintenance.

접촉 장치는 더 높은 헬리티의 강성을 위해 두배로 만들어졌습니다. 항공기용 강도 높은 알루미늄으로 만들어졌습니다. 2 000개의 신뢰할 수 있는 회로를 테스트했습니다. 트렌드와는 상이하게, EMSPEC는 기계 작동을 내부에 숨기지 않았습니다. 따라서, 이 중요한 기능은 검사나 유지보수를 위한 간편하게 접근할 수 있습니다.

All current transfers are based on our well-proven rotating contact with multiple spring-loaded fingers. The contact fingers are the same and fully interchangeable with the ones used on our vertical break knee type, our double break and center break disconnect switches.

접촉 장치는 내부에 있는 회로에 따른 다수의 봉합 플러스 로드를 사용하여 제공됩니다. 접촉 플러스 로드는 통과한 접촉자와 완전히 교환 가능합니다. 우리 회의垂直 break knee type, 우리 double break and center break disconnect switches에 사용된 것과 동일합니다.

The same contact parts are used at the hinge, the knee and the jaw.

접촉 부분은 핵심, 무릎 및 팔 부분에 사용이 가능합니다.
**DIMENSIONS & TECHNICAL DATA**

- Dimensions are based on ANSI TR insulators except for 420 kV* and 550 kV*.
- IEC ratings and dimensions are available upon request.

<table>
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<th>EN (kV)</th>
<th>123</th>
<th>145</th>
<th>169</th>
<th>245</th>
<th>362</th>
<th>420*</th>
<th>550*</th>
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<tbody>
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<td>3 550</td>
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</table>

For other ratings consult factory.

**OPTIONS**

- Parallel or perpendicular grounding switch
- Manual or motor operator
- Mechanical, electromagnetic, electrical and trapped key interlock system
- Arcing horns or High speed whips
- Silver inlays or silver plating

*This brochure provides a brief introduction. EMSPEC reserves the right to make changes at any time, without notice.*