Type ED distribution enclosed air switch

General
Eaton’s Cooper Power™ series Type ED switch is a distribution enclosed single-pole air switch rated at 7.8 kV, 75 kV BIL, 400 and 600 A continuous current. The Type ED porcelain-housed disconnect switch provides flexibility and safety in distribution switching. The crossarm mounting bracket is designed for vertical and angle mounting and can also be converted to a pole mounting bracket. Terminals on Type ED switch accommodate No. 4/0 through 500 MCM wire. See Table 1 for electrical characteristics and ordering information. See Figure 2 for dimensions for the Type ED switch.

When the switch is in the completely open position, the switchblade hangs below the porcelain housing, providing a positive indication that the switch is open. All live parts are protected by the closed-door design, whether the blade is in the open or closed position. A door detent is provided which securely holds the door open or closed, to allow for safe switch operation.

A quick-break mechanism on both the 400- and 600 A models effectively interrupts transformer-magnetizing current.

The Type ED air switch meets all requirements set forth in ANSI® Standard C37.45-1981.
Figure 1. Type ED switch.

Table 1. Electrical Characteristics and Ordering Information

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Maximum Design Voltage (kV)</th>
<th>Continuous Current (amp)</th>
<th>Momentary Rating (amps rms)</th>
<th>Impulse Withstand Voltage (BIL) - 1.2 x 50 Microsecond Wave (kV)</th>
<th>Minimum Power-Frequency Withstand (kV rms)</th>
<th>Shipping weight lb (kg)</th>
</tr>
</thead>
<tbody>
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<td>FW4A1</td>
<td>7.8</td>
<td>400</td>
<td>20000</td>
<td>75</td>
<td>27</td>
<td>24</td>
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<tr>
<td>FW3A1</td>
<td>7.8</td>
<td>600</td>
<td>20000</td>
<td>75</td>
<td>27</td>
<td>24</td>
</tr>
</tbody>
</table>

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For Eaton’s Cooper Power series product information call 1-877-277-4636 or visit: www.eaton.com/cooperpowerseries.