

INTERRUPTERS QUICK BREAK WHIPS

There are many factors which govern the interrupting capabilities of a disconnect switch. Some of these factors are: weather conditions, the amount of current, speed of operation, contamination, and the recovery voltage. Very high speeds of contact separation are required to establish the dielectric strength of the air gap ahead of the rise in recovery voltage.

Morpac has taken the speed of operation requirement out of the hands of the switch operator and designed it into the quick break whip, thereby keeping the velocity constant. This device is a whip machined from spring quality stainless steel. The whip is tapered, permitting maximum deflection and high tip speeds, without exceeding the elastic limit of the material.

In the closed position, the whip is engaged in a retaining catch and as the switch is opened, the whip is subjected to a large deflection and, as the switch continues to open, the whip is released and moves with spring action at high speed to the full open position. Through special design the whip is sufficiently dampened so that over-travel does not occur, and rebound is held to a minimum.

The recommended maximum interrupting range of application for the Morpac quick break whip:

LINE BREAKING CURRENT		TRANSFORMER MAGNETIZING CURRENT		
7.5 - 115kV	12 amps	7.5 - 69kV	up to	35,000KVA
138kV	10 amps	115 - 161kV	up to	100,000KVA
161kV	8 amps			

