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Case Study

Subject: **MVS Improves Reliability of Water Treatment Facility** Date: 11/9/12
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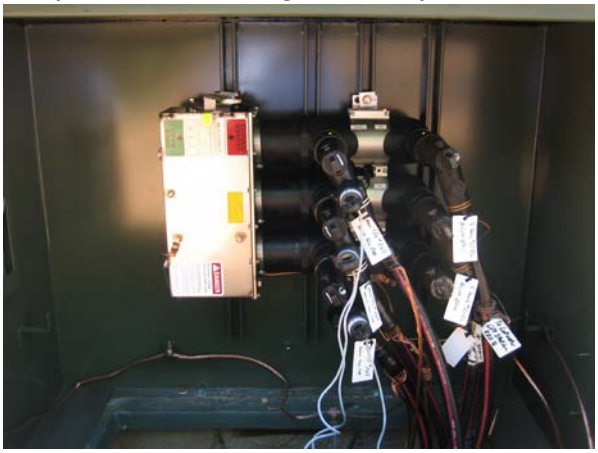
Background:

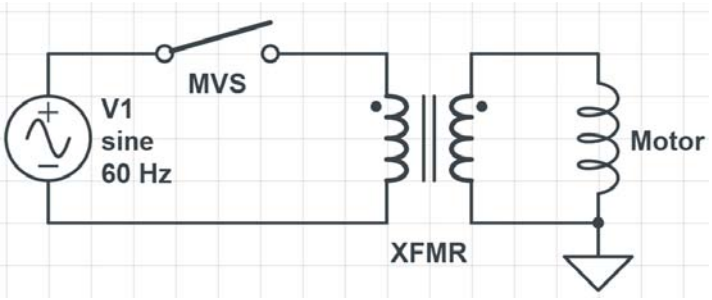
A water treatment facility experienced an issue of single phasing a motor and a ferroresonance condition while trying to energize their system by closing in cutouts individually. The motor was used to run the water pumps at the facility.

Solution:

This facility management team worked with their local utility for a solution in a product they already had on standards and had a high degree of success utilizing in new construction and retrofit projects. The solution that specifically met their needs came from mounting an Elastimold® Three Phase Molded Vacuum Switch (MVS) inside of a single sided padmounted enclosure. The MVS had a manual operating handle which was used to energize or de-energize the motor. A standard MVS was mounted horizontally inside of the cabinet, along with some standard Elastimold® Underground Cable Accessories. The addition of the capacitive test ports on the elbows allow for the benefit of testing for voltage using the Fisher Pierce® V2 and the installation of faulted circuit indicators. The MVS can be upgraded in the future to include a motor operator for local or remote operation. The packaged setup included the following components:



- Painted Mild Steel Single Sided Padmouted Enclosure
- Elastimold® Three Phase Molded Vacuum Switch
- Elastimold® 200A Elbows
- Fisher Pierce® V2 Voltage Sensors



Overall Results:

Based on the light weight, maintenance free and self-contained aspect of the Elastimold® Molded Vacuum Switch (MVS) systems, the product was the ideal solution. The simple load break switch allows for a way of saving money and improving the system reliability at the water treatment facility.