Selecting Multiple Core Sizes Using ACS880 Winder Firmware and Adaptive Programming

Overview

If the ACS880 winder application requires the need to change roll sizes this simple AP code can be added, and the following Tech note will explain how to do accomplish this task.

Description:

This AP program uses the switch value block to write to parameter 76.08 to change core sizes in an ACS880 winder firmware.

AP program for selecting mult core sizes when using the ACS880 Winder Firmware

In the ACS800 winder firmware there is a feature that allows you to choose three core sizes via digital inputs. The ACS880 winder firmware does not have this feature. However, this feature can be added through the use of Adaptive Programming (AP) and using extended Switch Value Block. With the use of the Switch value block you have the ability to write different values depending on which inputs are closed. In this case when DI5 is closed the IN1 value (10) is written to Parameter 76.08 which is core diameter. With DI4 closed the IN2 value (15) is written to Parameter 76.08 which is the core diameter. If DI5 and DI4 are open, then the default value (5) is written to parameter 76.08 which is the core diameter. Therefore, with two digital inputs it is possible to choose three core sizes similar to the ACS800 winder firmware. Through AP programming it is not possible to interlock the digital inputs so that if one switch was closed the others would be open. As a result, this will need to be done externally. The current ACS880 winder firmware scaling will only work with metric parameters. This will be fixed in an upcoming firmware.

Documents or other reference material:

ACS880 Winder Control Program, Document Number 3AUA0000107532

Application Guide, Adaptive Programming, Document Number 3AXD50000028574