

Using ARC+3S option module

Introduction

ARC+3S is an option module that adds advanced arc flash protection capabilities to VAMP50 -series protection relays. The key differences between this and the traditional arc option module are high-speed tripping and the ability to interface with VAMP's dedicated arc protection systems. This means tripping times as low as under seven milliseconds and capability to interact with the rest of the arc protection system using the four tripping zones and the external current information signal.

will reveal three submenus as shown in figure 1.

From the "Arc+3S Configuration" view one can configure the option card's overcurrent limits and -delays, configure the device's address on the arc protection system, install the connected arc sensors, and Release all option card's latches. From this view one can also get information about the connected sensors.

NOTE! In order for the card to work correctly, all connected sensors must be installed before normal operation.

Configuring the card

Configuration of the ARC+3S option card can be done via VAMPSET relay configuration software. When connecting with a device with the option module, there is an entry called "Arc+3S...". Clicking it open

The view "Arc+3S Event Enabling" contains the event matrix for the events generated by the option card. Each sensor channel has four available events: Fault ON / OFF and Act ON / OFF events.

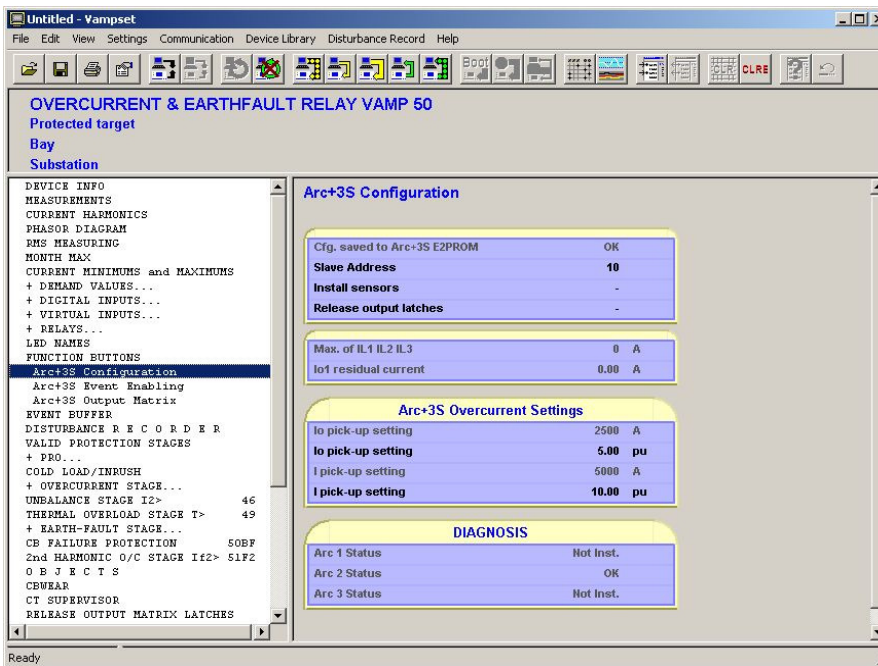


Figure 1. Vampset view with expanded Arc+3S menu.

The third menu, "Arc+3S Output Matrix", contains the cross-connection matrix between the various input combinations and the output signals. A mark in the matrix's crossing means that the horizontal line's input signal connects to the corresponding vertical line's output signal and thus activation on the input line causes activation in the output. If a horizontal line has more than one mark then the signal simply connects to all marked outputs. Accordingly, if a vertical line has multiple marks then activation on any of the marked inputs will cause activation in the output. Figure 2 shows an example of the option card's matrix view.

The behavior of the entire matrix is the same, excluding the topmost row. The first line (row) of the matrix defines whether the marked output signal is latched or not. If a latched signal gets activation, it will remain latched until the latches are cleared either locally or from the arc protection system's central unit. The latches are also cleared on power-on reset.

NOTE! On the top of the matrix view there is an indicator which tells whether the option card's configuration is saved. The relay must not be booted when the value is other than "OK". Otherwise the changes made to the card's configuration will be lost.

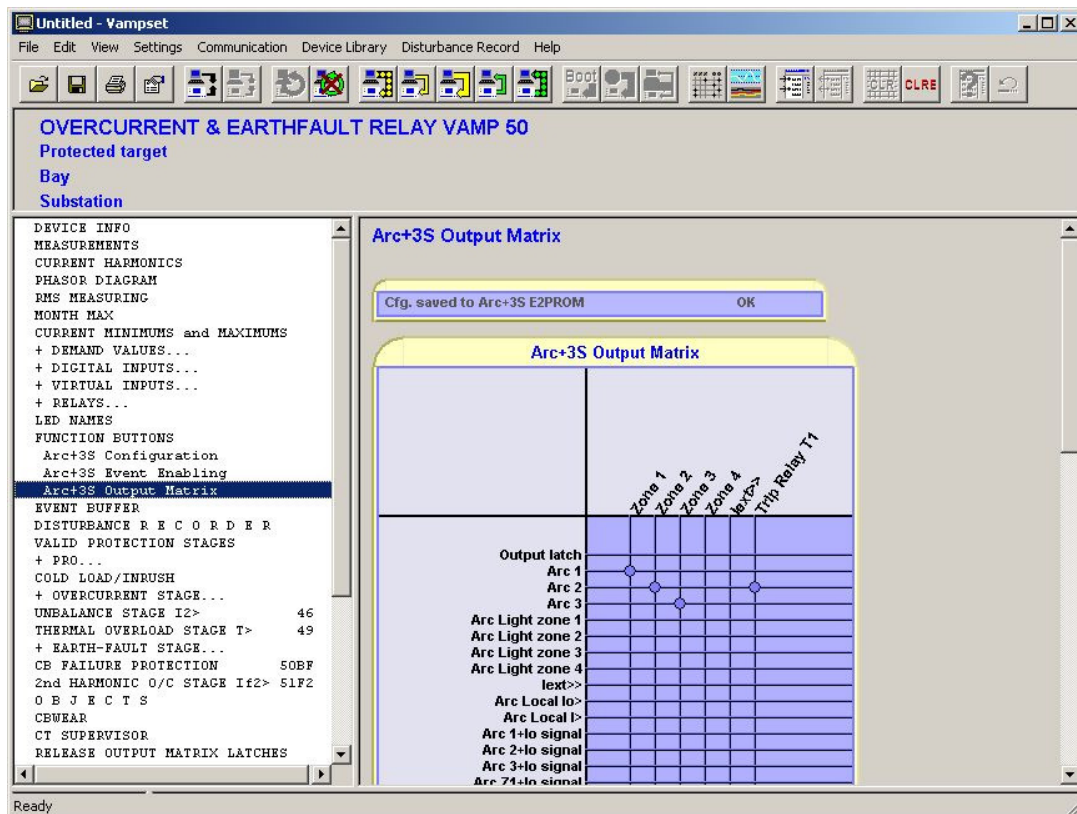


Figure 2. the output matrix of ARC+3S option module.

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