



VEBKO ONLINE HELP

"VI Starting" Room Setting

Category	tester
Section	AMT VI STARTING Module
Language	English
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To continue with explaining "VI Starting" room, in this video we are going to explain "Setting" tab. you can adjust some of the test settings. In this tab, In "Time" section, first, the injection time before fault in "PreFault Time" is entered. In "Max Fault Time", the maximum fault injection time is specified in the form of "Abs" or "Rel" which itself includes three sections. Note that if the time specified in "Max Fault Time" is shorter than time of the "Pick up" time of the shot point, result of the evaluation will be wrong.

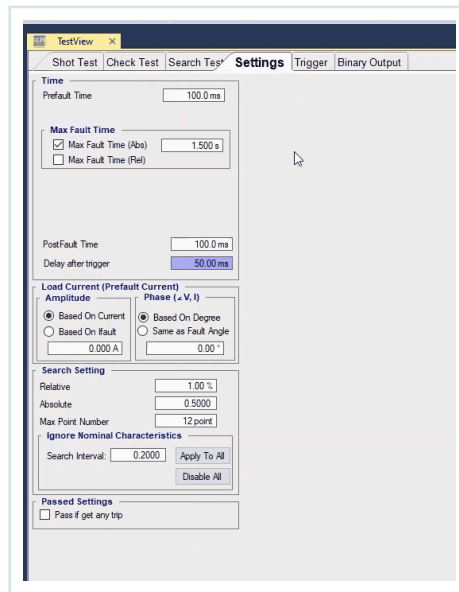
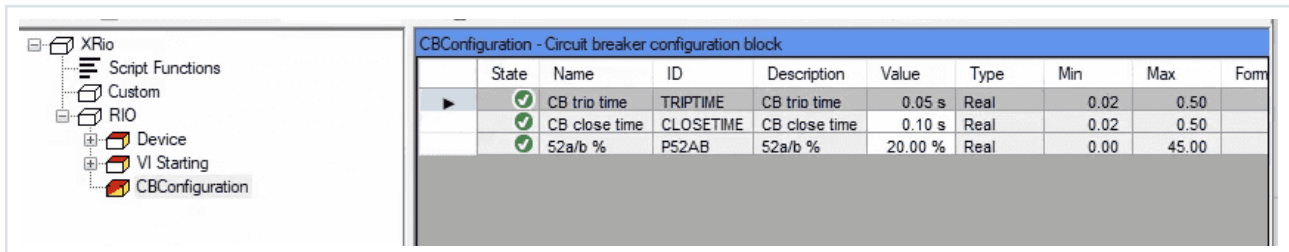


Figure 1

If you are using "Max Fault Time (Abs)" field, you need to enter a time in terms of seconds for the maximum fault signal injection time (for all points). But, to increase the speed of the test, you can use "Max Fault Time (Rel)". By checking this option, three other options appear. By entering a number in "Add%ofTnom", the fault signal injection time in each point equals the test point nominal time plus a percentage of the nominal time entered in this field. This means that if the test point nominal time is 10 seconds and 5 percent is entered in this field, the maximum fault injection time (105) percent of the test nominal time which is 10.5 seconds. But in "Add Absolute" field, the fault injection time is entered as a sum of the test point trip nominal time plus the time entered in this field. For points which are in "No Trip" area, it is possible to enter a separate time in "No-Trip Time" field. If you enter the time in these four fields, the software will consider the longest time.

"Post Fault" time is entered in "Post Fault Time". "Delay After Trigger" is used for specifying the trigger time of the intended key and by right-clicking on the related field and selecting "Go To Linked Value", you can see that it is linked to "CB Trip Time" and if necessary, by selecting "Remove Link" you can enter your desired value instead. In "Load Current (Prefault Current)" section, it is possible to adjust the settings related to "Prefault" phase and current. By selecting "Based on Current" radio button in "Amplitude" section, the "Prefault" current is entered in ampere which is the same for all other test points. But, by selecting "Based on IFault", the "Prefault" current is entered in fault current which is different for every "Shot" point. You can use "Phase" section for the angle between current and

voltage in "PreFault". By selecting the "Based on Degree" radio button, it is possible to specify the voltage current angle in degrees which is the same for all other test points. But, by selecting "Same as Fault Angle", the angle between current and voltage in "PreFault" will be the same with "Fault" which is different for every "Shot" point.



	State	Name	ID	Description	Value	Type	Min	Max	Form
▶	✓	CB trip time	TRIPTIME	CB trip time	0.05 s	Real	0.02	0.50	
	✓	CB close time	CLOSETIME	CB close time	0.10 s	Real	0.02	0.50	
	✓	52a/b %	P52AB	52a/b %	20.00 %	Real	0.00	45.00	

Figure 2

In "Search Setting" section, the settings related to "Search Test" are specified. As mentioned before, "Search Test" gives a result when one of these conditions are met.

The first condition is "Relative" meaning if the difference between the test point value and previous test point is less than the percentage specified in this field, this point is the response of the test.

The second condition is "Absolute" meaning if the difference between the test point and previous point is less than the value specified in this field, this point is the response of the test.

And the third condition is "Max Point Number" meaning the test cannot be performed more than the number of points entered in this field and the last point is the response of the test.

But, if for any reasons, the nominal characteristic specified for the test is not available, you can use the "Ignore Nominal Characteristic" section. By doing so, the software ignores the current characteristic. Then, according to the steps entered in "Search Interval", shots are added to the "Search" line. For example, in "Search Test" section, a line is drawn. Then, 0.5 is entered in "Search Interval" and "Apply to all" is selected. You can see that points with this step are shot on the "Search" line. By performing the test, you can see that it starts from the lowest point and when one of the three mentioned conditions is met, the test gives a result. If necessary, it is possible to disable this option by selecting "Disable all".

In "Trigger" tab, you can select your intended binary to receive the "Pick up" signal, cutting the injection of current and voltage. The explanation and settings of this section are the same as those for "Trigger" in "Sequencer" room. In "Binary Output" tab, if it is necessary for the relay to see the key condition, by using the "A" or "B" group voltages or "Aux DC" it is possible to take any needed voltage to the "Binary Input" of the relay through "Binary Output" of the device. This tab has three "PreFault", "Fault" and "Post Fault" modes and you can specify the settings of each one separately.



Figure 3

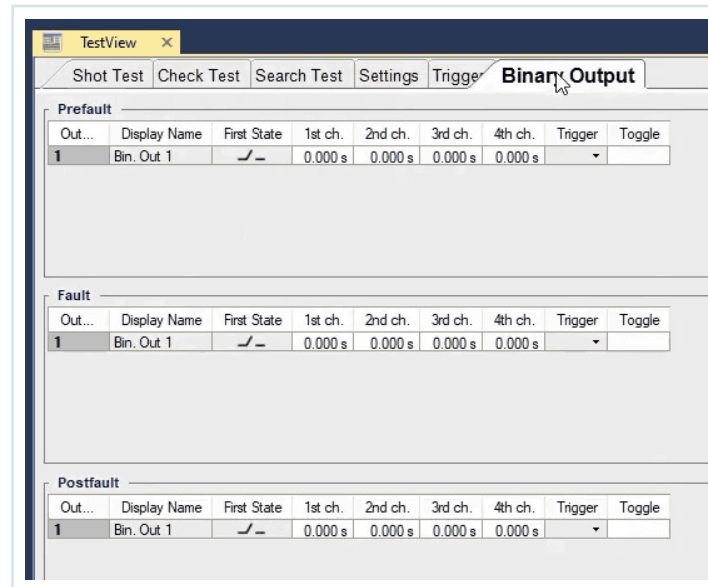


Figure 4

[jg1]VI_Starting_Room_Setting