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## Sel 351r quick start installation and user's guide

'iPhone software update failed' error can also appear if your mobile does not have enough space for the latest iOS files. Free up more storage space by deleting unwanted apps, photos, videos, cache, and junk files, etc. To remove unwanted data follow Settings > General > Storage & iCloud Usage and tap Manage Storage. Why does my update keep failing iPhone? One of the most common reasons an iOS update might fail is because of a lack of storage space. This is easy to resolve, so long as you're willing to make some short-term sacrifices by deleting music, apps, photos, or videos. You only need to delete enough stuff to free up the storage required by the iOS update. Which is the phantom voltage setting on sel-351r-2? The description of the metering command also briefly describes how phantom voltages are generated. Additional screen captures for SHO G and SHO FZ commands on an SEL-351R-2 show the new phantom voltage setting. The descriptions of SHO L and SHO T now mention the availability of eight additional latch, local, and remote bits and display points. Where can I find the sel-351r recloser control manual? INSTRUCTION MANUAL IMPORTANT: Use this manual in conjunction with the SEL-351R Quick-Start Installation and User's Guide. SCHWEITZER ENGINEERING LABORATORIES 2350 NE HOPKINS COURT PULLMAN, WA USA 99163-5603 TEL: (509) 332-1890 FAX: (509) 332-7990 When to change the date code on the sel-351r manual? PM351R-01 Date Code 20020215 Manual Change Information i SEL-351R Instruction Manual MANUAL CHANGE INFORMATION The date code at the bottom of each page of this manual reflects the creation or revision date. Date codes are changed only on pages that have been revised and any following pages affected by the revisions (i.e., pagination). What is the cou command on the sel-351r? Included the COU command in Table 10.5, and also added a description and screen capture of the command. The description of the metering command also briefly describes how phantom voltages are generated. Additional screen captures for SHO G and SHO FZ commands on an SEL-351R-2 show the new phantom voltage setting. RECLOSER CONTROL SCHWEITZER ENGINEERING LABORATORIES 2350 NE Hopkins Court A Pullman, WA A 99163-5603 A USA Phone: (509) 332-1890 A Fax: (509) 332-7990 E-mail: info@selinc.com A Internet: www.selinc.com Application Guide Volume III AG2000-06Making SEL-351R Recloser Controls Talk Building a Voltage Throw-Over Scheme with Two SEL-351R Recloser Controls Mike Collum INTRODUCTION The SEL-351R Recloser Control can be used to develop a voltage throw-over scheme. Schemes of this type are used to monitor the line voltages from two sources and automatically transfer the load to a healthy source during service interruptions. The scheme developed in this application guide is flexible and was developed with two SEL-351R recloser controls. After the settings are understood, they can be modified to fit most customer applications. The discussion in this application guide is not meant to offer a full understanding of the SEL-351R, but to supplement information in the SEL-351R Instruction Manual and Quick-Start Guide. An understanding of MIRRORRED BITS communications, SELOGIC control equations, and SEL-351R settings is helpful. closed openNormalSourceStandbySourceLoadTXRXSEL-2815SEL-351RTXRXSEL-2815SEL-351RMIRRORRED BITSTransmitted OverFiber-Optic CablePort 3(3) (1) (1) (3)Port 3(bus) Figure 1: SEL-351R Voltage Throw-Over Scheme Figure 1 is an elementary diagram for the SEL-351R voltage throw-over scheme. Each SEL-351R recloser control must have the optional three-phase voltage inputs connected to monitor and detect low source voltage on any phase. Connect the sync PT input Vs on each SEL-351R to monitor one phase of load (bus) voltage. In the voltage throw-over scheme developed in this application guide, the two controls exchange various pieces of information critical to the throw-over scheme via the MIRRORRED BITS communications protocol. SEL offers several cable options ranging from hardware to fiber optics for the exchange of MIRRORRED BITS between the relays. The type of cabling depends on the distance between the controls. With the SEL-2815 fiber optic transceiver, the distance between 2 SEL Application Guide 2000-06 Date Code 20000824 the controls can be just over nine miles! Limit hardware cable distances, however, to 50 feet with SEL-351R controls on the same ground plane. GENERAL SETUP STEP 1 Apply Level 2 Relay Settings Apply the highlighted settings listed in the Required Settings section of this application guide to both the normal-source recloser control and the standby-source recloser control. These settings changes have to be made at Access Level 2. Setting changes are required to the numerical setting group, the logic setting group, the text setting group, and a communications port. All Level 2 settings in these groups are listed. However, only the highlighted settings are additional or modified settings. The rest of the settings listed are the factory default SEL-351R settings. When saving numerical settings, ignore the generated warnings that indicate EZ settings may override some settings changes. While EZ settings do have precedence over some numerical settings, no settings changes suggested in this application guide are affected by the EZ setting routine. STEP 2 Review the Following Settings and Customize if Necessary The following settings in the Required Settings section may need to be customized for each application. These relay settings define the voltage throw-over scheme operation. Default values are given in the Required Settings section and will work for many applications. Review the SEL-351R instruction manual for a detailed explanation of the settings. 50P3P - Overcurrent threshold to block under-voltage transfer 27P1P - Low voltage threshold to initiate under-voltage throw-over 27SP - Low bus voltage threshold for hot line/dead bus reclose qualification when voltage sync supervision is selected 59P1P - Healthy line voltage threshold for hot line/dead bus reclose qualification when voltage sync supervision is selected SV1PU - Time delay for normal-source trip in a voltage throw-over operation SV2PU - Time delay for standby-source close in a voltage throw-over operation SV3PU - Time delay for normal-source close in a voltage throw-over operation SV4PU - Time delay for standby-source trip in a voltage throw-over operation 25VLO - Low voltage threshold for sync element operation 25VHI - High voltage threshold for sync element operation 25SF - Slip frequency threshold for sync element operation 25ANG1 - Angle difference threshold for sync element operation SYNC P - Phase Vs input connection for sync element operation TCLOSD - Recloser close time compensation for sync element operation STEP 3 Apply Routine Recloser Control Settings at EZ setting level Make all routine recloser settings at the EZ setting level to set up the traditional recloser functions. The EZ setting level settings configure basic recloser settings such as minimum trip levels, number of recloses, time overcurrent curves, etc. Refer to EZ setting section in the SEL-351R Quick-Start Guide for a detailed explanation. Date Code 20000824 SEL Application Guide 2000-06 3 STEP 4 Set Up the SEL-351R Voltage Throw-Over Controls Through the Front Panel After all settings have been applied, select these options, available through the front-panel interface, for proper operation. 1 Press the AUX 1 button to enable or disable the throw-over scheme. When the AUX 1 LED is illuminated, the throw-over scheme is enabled. Mirrored Bits communication must be established between the controls for the button to work. The scheme can be enabled or disabled from either control. If desired, use a label maker to relabel the AUX 1 button (e.g., relabel as TRANSFER ENABLED see SEL-351R front panel at the end of this application guide, Quick Reference subsection). 2 Use the CNTRL button on the relay to select the NORMAL/STANDBY local control switch and designate one control to be the normal source and the other control as the standby source. The throw-over scheme only works if one source is selected as the normal source and the other is selected as the standby source. 3 Use the CNTRL button on the relay to select the SYNC CLOSE local control switch. This control option designates whether the normal-source control performs a sync check before automatically closing back on a throw-over scheme reclose. The throw-over scheme only works if both controls are set for the same close option. 4 Use the CNTRL button on the relay to select FAKE SYNC TEST if testing the sync-close logic without a synchronizing voltage input to the relay is desired. STEP 5 Install the SEL-351R Controls and Make External Connections After applying the settings changes and selecting the front-panel control options on both SEL-351R controls, make the external connections as indicated in Figure 1. See the Quick-Start Guide for more installation information. STEP 6 Test the SEL-351R Controls for Proper Operation Test the voltage throw-over scheme and other protective functions to verify proper operation of the controls. Use the Quick-Start Guide for methods of testing traditional recloser functions. Use the functional description below to verify proper operation of the voltage throw-over scheme. OPERATION Voltage Throw-Over Scheme Operation (No sync voltage supervision on return to normal) 1 Both SEL-351R controls continuously monitor each phase of voltage. A low voltage transfer requires two system conditions to be satisfied: a One or more phases of line voltage must drop below the 27P1P setting. b All phase currents in the normal-source control must be below the 50P3P setting. When both conditions exist simultaneously for SV1PU time, the normal-source recloser trips. LOW VOLT TRIP is displayed to indicate that the normal-source recloser is in an abnormal state. 2 After the normal-source recloser trips, the standby-source recloser closes SV2PU time later. The display message LOW VOLT CLOSE is displayed to indicate that the standby-source recloser is in an abnormal state. 3 When the voltage becomes healthy on the normal-source recloser for SV4PU time, the standby-source recloser trips (the load again is temporarily without power). The LOW VOLT CLOSE display message is cleared. 4 After the standby-source recloser trips, the normal-source recloser closes after SV3PU time. The LOW VOLT TRIP display message is cleared. The close of the normal-source recloser restores power to the load and completes the voltage throw-over trip/close cycle. Voltage Throw-Over Scheme Operation (with sync voltage supervision on return to normal) 1 Both SEL-351R controls continuously monitor each phase of voltage. A low voltage transfer requires two system conditions to be satisfied; a One or more phases of line voltage must drop below the 27P1P setting. b All phase currents in the normal-source control must be below the 50P3P setting. When both conditions exist simultaneously for SV1PU time, the normal-source recloser trips. LOW VOLT TRIP is displayed on the display as an indication that the normal-source recloser is in an abnormal state. 2 After the normal-source recloser trips, the standby-source recloser closes SV2PU time later. The display message LOW VOLT CLOSE is displayed as an indication that the standby-source recloser is in an abnormal state. 3 When the voltage becomes healthy on the normal-source recloser for SV3PU time, the normal-source recloser closes 1



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