

INSTRUCTION

Softstarter Firmware Upgrade SoftstarterCare

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Motor Starting	a & Safety	2CMT001197D0169	с	en	1/10

1. Firmware upgrade

Download and install the softstarter configuration tool SoftstarterCare from ABB Library. The latest softstarter firmware is also downloaded from ABB Library but requires ABB personnel privilege. Please click the following links to download the required firmware.

- SoftstarterCare[™] Service Engineer Tool
- ABB Softstarter firmware PSTX
- ABB Softstarter firmware PSE

1.1. How to upgrade PSTX firmware

The following sections explain how to perform a firmware upgrade on an ABB PSTX Softstarter.

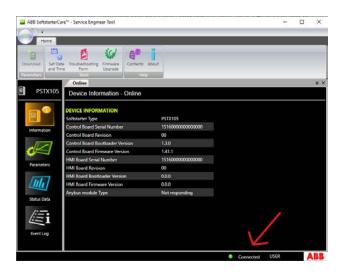
1.1.1. Control board firmware v1.22 and higher

- 1. Ensure that the PSTX softstarter is disconnected from operational voltage and control supply voltage (100-250V).
- 2. Set the PSTX HMI in boot mode.



Hold both the stop and L/R button when connecting the USB cable between the PC and the PSTX HMI. This will set the HMI in boot mode and all four LEDs (Ready, Run, Protection and Fault) will be lit. Release the buttons and verify that all 4 LEDs still are lit.

3. Start SoftstarterCare and confirm that the softstarter is connected.



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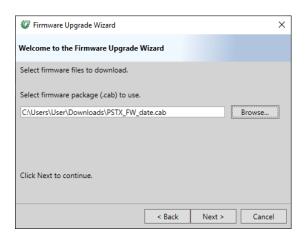
4. Click on Firmware upgrade to start the firmware upgrade wizard.



5. Select the directory SoftstarterCare will use to store the Softstarter parameter configuration and click Next.

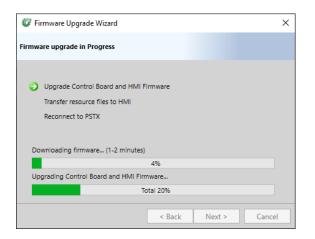
ain .	
🕼 Firmware Upgrade Wizard	<
Welcome to the Firmware Upgrade Wizard	
Store parameters before firmware upgrade, the device parameters are stored to below specified directory for allowing user to restore the parameters after upgrade complete.	>
Parameters are stored to directory:	
C:\Users\User\Documents\ABB\SoftstarterCare™ - Service Engineer Too\\PSTX F Browse	AT DI
Click Next to continue, or Cancel to exit Firmware Upgrade.	
< Back Next > Cancel	

6. Select the firmware (.cab) file downloaded from ABB Library and click Next.



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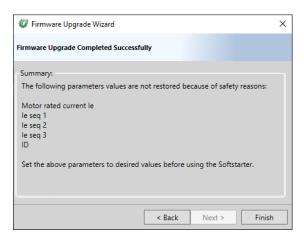
7. The firmware upgrade is now in progress and takes about 5 minutes to complete.



8. Click the Start button to restore the parameter configuration.

🕼 Firmware Upgrade Wizard	×								
Restore parameters									
Press start to begin restoring backed up parameters to device or press next to skip restoring parameters and use default values for all parameters. Restore parameters from: C:\Users\User\Documents\SoftstarterCare™ - Service Engineer Tool\PSTX Parameters.xml Start Restore parameters									
0%									
< Back Next > Cance									

9. The upgrade is now completed. Click Finish to close the Firmware upgrade wizard.



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1.1.2. Control board firmware v1.22 and lower

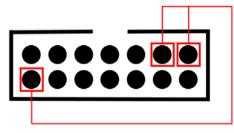
IMPORTANT: This instruction shall only be used for softstarters with control board firmware version <u>lower</u> than 1.22.0.

SoftstarterCare has very limited support for softstarters with old control board firmware, i.e., parameters backup/restore is not supported, only firmware upgrade is supported. In addition to the firmware upgrade instruction of softstarters with new control board firmware, two additional steps are needed for old control board firmware to not lose parameter configuration during firmware upgrade.

- Write down all modified parameters. These parameters must be manually restored after firmware upgrade. To list the modified parameters, use the HMI and navigate to Menu->Parameters->Modified.
- 2. Ensure that the PSTX softstarter is disconnected from operational voltage and control supply voltage (100-250V).
- 3. Connect a jumper cable to the COM2 port to set the control board in boot mode. Contact softstarters support (se-softstarters-support@abb.com) to order one.



If you don't have the cable, it's still possible to get into boot mode by connecting the 3 pins shown in the picture below.



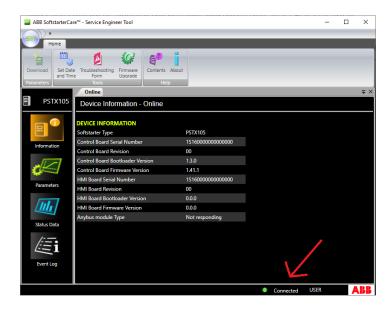
4. Set the PSTX HMI in boot mode.



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Hold both the stop and L/R button when connecting the USB cable between the PC and the PSTX HMI. This will set the HMI in boot mode and all four LEDs (Ready, Run, Protection and Fault) will be lit. Release the buttons and verify that all 4 LEDs still are lit.

5. Disconnect the jumper cable from the COM2 port on the control board.



6. Start SoftstarterCare and confirm that the softstarter is connected.

7. Click on Firmware upgrade to start the firmware upgrade wizard.

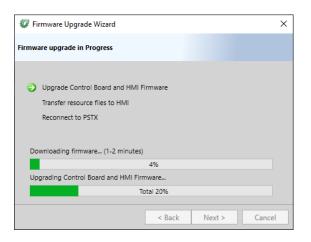
D =				
н	ome			
1	111		Ç.	6"
Download	Set Date and Time	Troubleshooting Form	Firmware Upgrade	Contents About
Parameters		Tools		Help

8. Select the firmware (.cab) file downloaded from ABB Library and click Next.

🕼 Firmware Upgrade Wizard	×
Welcome to the Firmware Upgrade Wizard	
Select firmware files to download.	
Select firmware package (.cab) to use.	
C:\Users\User\Downloads\PSTX_FW_date.cab Browse	
Click Next to continue.	
< Back Next > Cancel	7
< back ivext > Carcer	

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9. The firmware upgrade is now in progress and takes about 5 minutes to complete.



10. The upgrade is now completed. Click Finish to close the Firmware upgrade wizard.

🕼 Firmware Upgrade Wizard	\times
Firmware Upgrade Completed Successfully	
Summary: New Control Board Firmware Version: 1.41.1	
< Back Next > Finish	

11. Restore the softstarter parameter configuration by setting each parameter according to the values saved in step 1.

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How to upgrade PSE firmware

- 1. Ensure that the PSE softstarter is disconnected from operational voltage and control supply voltage (100-250V).
- 2. Use a PSECA USB cable to connect the PSE softstarter to your computer.
- 3. Start SoftstarterCare and confirm that the softstarter is connected.

ABB SoftstarterCa	re™ - Service Engineer Tool			- (×
- D +						
Home						
Download Parameters	e Form Upgrade Tools Help					
-	Online					₹ ×
PSE370	Device Information - Online					
	DEVICE INFORMATION					
	Softstarter Type	PSE370				
Information	Softstarter Main Board Serial Number					
	Softstarter Main Board Revision					
-	Softstarter Boot Firmware Version	01.01.00				
	Softstarter Application Firmware Version	01.03.12				
Parameters	Softstarter Communication Interface Version	0				
romiteers						
Status Data						
Event Log						
			Connected USER		A	

4. Click on Firmware upgrade to start the firmware upgrade wizard.

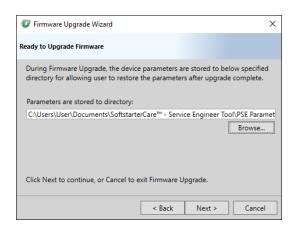


5. Select the firmware (.cab) file downloaded from ABB Library and click Next.

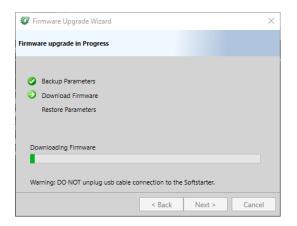
🕼 Firmware Upg	rade Wizard X
11/200	Welcome to the Firmware Upgrade Wizard
	This wizard helps you upgrade the firmware on the connected PSE Softstarter.
	You should only use this wizard if you are an advanced user or you have been directed here by technical support.
	Select the firmware file you want to download.
	C:\Users\User\Downloads\PSE-v01.03.12.cab
	Browse
	Click Next to continue.
	< Back Next > Cancel

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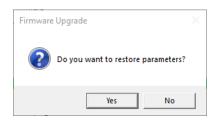
6. Select the directory SoftstarterCare will use to store the softstarter parameter configuration and click Next.



7. The firmware upgrade is now in progress. The upgrade takes about 1 minute to complete.



8. A message box asks whether you want to restore parameters or not. Click Yes to restore parameters.



9. The upgrade is now completed. Click Finish to close the Firmware upgrade wizard.

🕼 Firmware Upgrade Wizard			×
Firmware Upgrade Completed Successful	у		
Summary: Firmware is upgraded successfully, but restored because of safety reasons: Motor rated current Set the above parameters to desired va			
	< Back	Next >	Finish

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2. Additional Information

2.1. Listing of related documents

Document Kind, Title	Document No.
PSTX - Installation and commissioning manual	1SFC132081M0201
PSE - Installation and commissioning manual	1SFC132057M0201
	PSTX - Installation and commissioning manual

3. Revisions

Rev.	Page (P) Chapt. (C)	Description	Date Dept./Init.
С		Added PSTX single CAB file instruction	2022-02-15

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