SPX9000 Software Release Notes

SPX00032V025.vcn   released: October 2016

- **System**

    - **Support for OPT-E9 (Dual port Ethernet board) added**

- **Application**
    - **SVCHST01V126(Basic)**
        - **Current Limit Warning added A90**
        - **Under voltage Warning Added A91**
        - **Overvoltage Warning Added A92**
        - **Torque Limit Warning Added A93**
    - **SVCHST02V135(Standard)**
        - **Current Limit Warning added A90**
        - **Under voltage Warning Added A91**
        - **Overvoltage Warning Added A92**
        - **Torque Limit Warning Added A93**
        - **Added Parameter 1.7.26.1 CurrentRegResp to disable warning ID 757**
        - **Added Parameter 1.7.26.2 OvervoltRegResp to disable warning ID 758**
        - **Added Parameter 1.7.26.3 UnderVoltRegResp to disable warning ID 759**
        - **Added Parameter 1.7.26.4 TorqueRegResp to disable warning ID 760**
    - **SVCHST03V127(Local/Remote)**
        - **Current Limit Warning added A90**
        - **Under voltage Warning Added A91**
        - **Overvoltage Warning Added A92**
        - **Torque Limit Warning Added A93**
        - **Added Parameter 1.7.26.1 CurrentRegResp to disable warning ID 757**
        - **Added Parameter 1.7.26.2 OvervoltRegResp to disable warning ID 758**
        - **Added Parameter 1.7.26.3 UnderVoltRegResp to disable warning ID 759**
        - **Added Parameter 1.7.26.4 TorqueRegResp to disable warning ID 760**
        - **Fixed Current Limit stuck at default setting**
    - **SVCHST04V127(Multi-Step)**
        - **Current Limit Warning added A90**
        - **Under voltage Warning Added A91**
        - **Overvoltage Warning Added A92**
        - **Torque Limit Warning Added A93**
        - **Added Parameter 1.7.26.1 CurrentRegResp to disable warning ID 757**
        - **Added Parameter 1.7.26.2 OvervoltRegResp to disable warning ID 758**
        - **Added Parameter 1.7.26.3 UnderVoltRegResp to disable warning ID 759**

- **Added Parameter 1.7.26.4 TorqueRegResp to disable warning ID 760**
  - o **SVCHST05V133(PID-Control)**
    - **Current Limit Warning added A90**
    - **Under voltage Warning Added A91**
    - **Overvoltage Warning Added A92**
    - **Torque Limit Warning Added A93**
    - **Fix sleep/Wake while using process units**
    - **Added Parameter 1.7.30.1 CurrentRegResp to disable warning ID 757**
    - **Added Parameter 1.7.30.2 OvervoltRegResp to disable warning ID 758**
    - **Added Parameter 1.7.30.3 UnderVoltRegResp to disable warning ID 759**
    - **Added Parameter 1.7.30.4 TorqueRegResp to disable warning ID 760**
  - o **SVCHST06V138(Multi-Purpose)**
    - **Current Limit Warning added A90**
    - **Under voltage Warning Added A91**
    - **Overvoltage Warning Added A92**
    - **Torque Limit Warning Added A93**
    - **Added Parameter 1.7.38.1 CurrentRegResp to disable warning ID 757**
    - **Added Parameter 1.7.38.2 OvervoltRegResp to disable warning ID 758**
    - **Added Parameter 1.7.38.3 UnderVoltRegResp to disable warning ID 759**
    - **Added Parameter 1.7.38.4 TorqueRegResp to disable warning ID 760**
    - **Changed 7.21.9,7.21.10,7.21.11 to RMS Values**
    - **Changed default on 1.7.13 to fault, coast was no action**
    - **Changed Default on 1.7.37 to 15% was 50%**
    - **Changed default 1.2.7.18 to A.6 was 0.1**
    - **Changed default on 1.2.7.13 to 0.1 was A.6**
    - **Added Force communications input P1.2.7.23 ID 1546, when active this overrides local and remote and puts the drive in communications control and reference**
    - **Added Output contact interlock input P1.2.7.24 ID 1547 this input will generate F80 when drive has been running for greater than 250ms and this input is low.**
    - **Added Auto restart tries for F80 output contactor interlock P1.8.13 ID 761**
    - **Added Fault reaction configuration for F80 P1.7.39 ID 1902**
    - **Added Motor KW P7.23 ID 1692**
    - **Added Auto restart tries for F54 Slot Fault P1.8.14 ID 1905**
    - **Added F53 com fault auto reset parameter P1.8.15 ID 1904 when set to yes any message received over fieldbus will reset the F53 and not any other faults**
    - **Added P1.3.4.16 Current Supervision Function ID 1906 settings not used, Low Limit, High Limit**
    - **Added P1.3.4.17 Current Supervision Value ID 1907 min -3000 to 3000**
    - **Added P1.3.3.33 Current Supervision ID 1908**
    - **Changed Adjust input to allow negative values, this will allow Subtracting or adding to the base reference, P1.2.1.5 min changed to -100.0 p1.2.1.6 min changed to -100.0**

- **Changed force local to have priority over force remote and force communications**
  - ○ **SVCHST07V128(PFC)**
    - ▪ **Current Limit Warning added A90**
    - ▪ **Under voltage Warning Added A91**
    - ▪ **Overvoltage Warning Added A92**
    - ▪ **Torque Limit Warning Added A93**
    - ▪ **Added CPX Temp Open Delay P1.2.1.8 ID 1399 from 0 to 5 sec**
    - ▪ **Added 1.8.12 CPX Temp trials ID 1901 min 0 max 10**
    - ▪ **Added Output contact interlock input P1.2.6.23 ID 1547 this input will generate F80 when drive has been running for greater than 250ms and this input is low.**
    - ▪ **Changed Default on 1.7.29 ground fault level to 15% was 50%**
    - ▪ **Added Auto restart tries for F80 output contactor interlock P1.8.13 ID 1902**
    - ▪ **Added Fault reaction configuration for F80 P1.7.30 ID 1903**
    - ▪ **Added Parameter 1.7.31.1 CurrentRegResp to disable warning ID 757**
    - ▪ **Added Parameter 1.7.31.2 OvervoltRegResp to disable warning ID 758**
    - ▪ **Added Parameter 1.7.31.3 UnderVoltRegResp to disable warning ID 759**
    - ▪ **Added Parameter 1.7.31.4 TorqueRegResp to disable warning ID 760**
    - ▪ **Fixed Bug where PID was always active even in local if place A was selected**

SPX00032V024.vcn   released: May 2015

- **System**
  - ○ **Added 5 second to delay time on F32 fault to prevent nuisance trips from DC fans on FR9 and larger drives**

- **Application**
  - ○ **SVCHST01V126(Basic)**
    - ▪ **None**
  - ○ **SVCHST02V135(Standard)**
    - ▪ **Run Enable on fault controller bug fixed**
    - ▪ **Dc brake on Run enable Bug fixed**
  - ○ **SVCHST03V127(Local/Remote)**
    - ▪ **Run Enable on fault controller bug fixed**
    - ▪ **Dc brake on Run enable Bug fixed**
  - ○ **SVCHST04V127(Multi-Step)**
    - ▪ **Run Enable on fault controller bug fixed**
    - ▪ **Dc brake on Run enable Bug fixed**

- o **SVCHST05V133(PID-Control)**
  - **Run Enable on fault controller bug fixed**
  - **PID units added P1.2.43**
  - **PID control is the default reference source for remote**
  - **Dc brake on Run enable Bug fixed**
- o **SVCHST06V138(Multi-Purpose)**
  - **Run Enable on fault controller bug fixed**
  - **Added analog output functions**
    - **Joystick speed output**
    - **Unit temperature**
    - **Motor speed %**
  - **Added CPX Temp Open Delay P1.2.18 ID 1687 from 0 to 5 sec**
  - **Changed B0 of application status word from not used to "Remote"**
  - **Assigned General status word ID1700**
  - **Added Second Run output P1.3.3.31**
  - **Added Second Fault output P1.3.3.32**
- o **SVCHST07V128(PFC)**
  - **Run Enable on fault controller bug fixed**
  - **Dc brake on Run enable Bug fixed**
  - **Scaling factor for Analog output values bug fix.**
  - **Added kWh meter to the monitor values.**

SPX00032V019.vcn   released: March 2014

- **System**

- **Application**
  - o **SVCHST01V125(Basic)**
    - **Menu Label Bug fix.**
    - **9000X Drive System Software Generator.**
  - o **SVCHST02V133(Standard)**
    - **Default switching frequency value changed.**
    - **Added Ground Fault level setting parameter.**
    - **Auto Restart Start Delay.**
    - **Force Local Setting for Digital Inputs.**
    - **Cold Weather parameter set.**
    - **9000X Drive System Software Generator.**
  - o **SVCHST03V125(Local/Remote)**
    - **Jog Speed reference input bug fixed.**
    - **Motor Pot reference digital input bug fixed.**
    - **Default switching frequency value changed.**
    - **Added Ground Fault level setting parameter.**
    - **Auto Restart Start Delay.**

- **Force Local Setting for Digital Inputs.**
- **Force Remote Setting for Digital Inputs.**
- **Analog input signal inversion setting bug fix.**
- **9000X Drive System Software Generator.**
  - **SVCHST04V125(Multi-Step)**
    - **Default switching frequency value changed.**
    - **Added Ground Fault level setting parameter.**
    - **Auto Restart Start Delay.**
    - **Force Local Setting for Digital Inputs.**
    - **9000X Drive System Software Generator.**
  - **SVCHST05V129(PID-Control)**
    - **Default switching frequency value changed.**
    - **Added Ground Fault level setting parameter.**
    - **Auto Restart Start Delay.**
    - **Force Local Setting for Digital Inputs.**
    - **Cold Weather parameter set.**
    - **9000X Drive System Software Generator.**
  - **SVCHST06V135(Multi-Purpose)**
    - **Default switching frequency value changed.**
    - **Added Ground Fault level setting parameter.**
    - **Auto Restart Start Delay and wait time.**
    - **Force Local Setting for Digital Inputs.**
    - **Jog Speed and Fix Frequency setting not able to be set below min frequency.**
    - **Joystick Reference Forward and Reverse input bug fixed.**
    -
    - **Reference fault mode bug fix.**
    - **Fault Reset button bug fixed.**
    - **Cold Weather parameter set.**
    - **9000X Drive System Software Generator.**
  - **SVCHST07V126(PFC)**
    - **Default switching frequency value changed.**
    - **Added Ground Fault level setting parameter.**
    - **Auto Restart Start Delay and wait time.**
    - **Force Local Setting for Digital Inputs.**
    - **9000X Drive System Software Generator.**

SPX00032V017.vcn

- **System**

- **Application**
  - **SVCHST01V123(Basic)**
  - **SVCHST02V123(Standard)**
  - **SVCHST03V123(Local/Remote)**

- o **SVCHST04V123(Multi-Step)**
- o **SVCHST05V124(PID-Control)**
- o **SVCHST06V128(Multi-Purpose)**
- o **SVCHST07V123(PFC)**

Additional Help

In the event additional help is needed:

In the US or Canada: please contact the Technical Resource Center at 1-877-ETN-CARE or 1-877-326-2273.

Location	Contact
United States	Technical Resource Center at 1-877-ETN-CARE or 1-877-326-2273.
Canada	
Europe	

All other supporting documentation is located on the Eaton web site at www.eaton.com

Powering Business Worldwide