Eaton® 9395/9395P System Bypass Module (SBM)

Production Firmware History (Since Version 2.26)

Powering Business Worldwide

p/n: P-164001200
Revision 01

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Eaton 9395/9395P SBM Production Firmware History

Description

This document is intended for end-user informational purposes. It describes the changes between revision levels of the primary control board firmware used in the Eaton 9395/9395P System Bypass Module (SBM) product line. This document will be changing periodically and reposted on www.Eaton.com to reflect new production level firmware changes. In all cases, the changes, enhancements, fixes, and new features listed under a given production release are automatically transferred into the next production release.

DSP / Control Version 2.30.7000 (DSP1) / December 2023

Fixes

- Corrects a customer issue where the SBM manual transfers to and from bypass result in a differential current during the time the inverter and bypass are tied together. This can result in a ground fault breaker trip. The resolution provides a parameter-based solution that significantly reduces transfer times (to prevent a breaker trip) by reducing the number of debounce cycles required to detect CBP and CBS breaker states during manual transfers.

  This release does not eliminate differential current.

DSP / Control Version 2.30.2267 (DSP1) and .2268 (DSP2) / July 2019

Fixes

- 2.30.2267 / .2268 was specifically created to address issues with the slowness of Square D breakers for one specific customer. The timing of the breakers was allowing considerable back feed current to flow into the bypass source during manual transfers.

  It was initially intended that use of the 2.30.2267 / .2268 firmware would be limited only to that customer but then a parameter selection was added to turn the fix on if needed.

DSP / Control Version 2.28 / August 2014

Fixes

- Inconsistent fault clearing while in ESS:

  During a Factory Witness Test a load loss in about 25% of the applied upstream faults was observed. This issue was addressed by forcing more time to requalify sources after going on-line. Abnormal cases were mitigated by using voltage sensing and breaker state changes.

- Incorrect metering values when used with derated UPSs

  When used with derated UPSs the HMI would display incorrect meter values. This was addressed by adding a parameter to select which UPS is derated and associated parameters which updated the kVA and kW values.

- Flashing of the previous 2.26 firmware caused the RMP (Remote Monitor Panel) to stop working.

DSP / Control Version 2.26 / April 2013

Fixes

- The SBM entered ESS mode before the UPMs were ready.
- The system would go in, then out, and then back into ESS mode when Bypass voltage is removed.
- 9395 SBM System Frequency Range; When Bypass Frequency increases beyond the 3Hz window the History Log fills up with nuisance "Notice" messages.

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