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Fusesaver® outdoor circuit breaker new features July 2020

Introducing improved hardware and additional firmware features:

- Fully independent FAST time-current curve configuration
- Ability to apply a hot line tag function via SCADA
- Additional configuration option for multi-phase sites
- Improved two-step process for manual ganged operation
- Increased dead time setting
- Enhanced load profile.

usa.siemens.com/fusesaver



New hardware components and additional firmware features are introduced for Fusesaver. All models with a serial number starting 40000 are equipped with a new generation of current transformer (Nanperm® core) and an upgraded micro-processor (increased memory). The latest hardware requires a firmware update in order to operate. All previous Fusesaver models are compatible with the latest firmware version. Customers can easily upgrade their devices to the new firmware V1602 via the Siemens Outdoor Systems Data Management Cloud <https://sosdmc.siemens.cloud> at no cost.

New features from the updated firmware include:

FAST time-current curve

To provide greater flexibility with protection schemes, the inverse part of the FAST time-current curve can be configured independently from the NORMAL curve.

Hot line tag function via SCADA

The SCADA control center can set Fusesavers into a hot line tag mode (equivalent to external lever down functionality) for line crews remotely, which saves a site visit by the crew.

New virtual ganged external lever position

Configurable option such that if the external lever is down on any member of the group, all members of the group act as if their external lever is down. This option ensures that all units reject a manual operation, if any lever is down and manual inhibit on lever down has been configured.

Two-step process for manual ganged operation

Manual ganged operation now includes a capacitor charge check step before scheduling the operation. The new process eliminates the risk of partial group operation. All phases will operate synchronously, or the command will be rejected and none of the Fusesavers will operate.

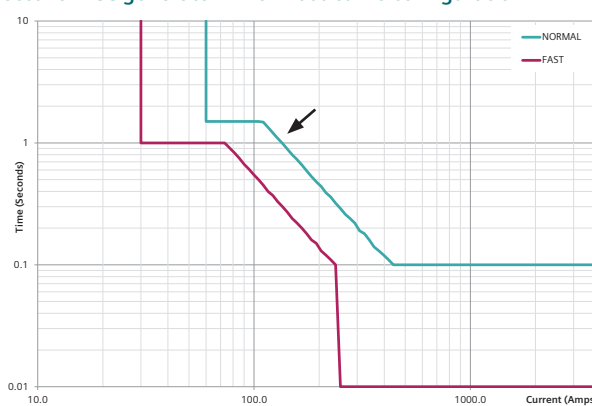
Increased dead time setting

For greater flexibility in settings options for protection schemes, Fusesavers with Communications Modules fitted now allow increased dead time settings.

Enhanced load profile

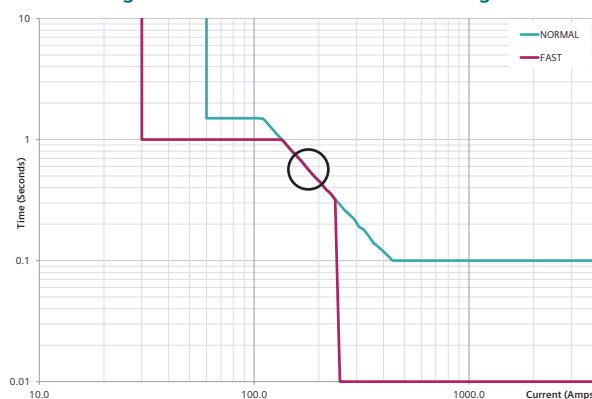
Daily load profile data is maintained even after minor time set changes.

Fusesaver TCC generator – New fast-curve configuration



Fast curve i^2t is a configurable fraction of the normal curve i^2t .

Fusesaver TCC generator – Previous fast-curve configuration



FAST and NORMAL inverse curves have the same i^2t .

Published by Siemens Industry, Inc. 2020

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Order no.: SIDS-B40063-00-4AUS

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