

A large industrial motor with cooling fins is the central focus, surrounded by a complex network of pipes and valves. The entire scene is bathed in a teal light, giving it a monochromatic, industrial feel. The motor is mounted on a concrete base, and various pipes of different diameters connect it to other parts of the system. A metal walkway or platform is visible in the upper left corner.

Introducing Multilin 859: Unlocking the Future of Motor Protection

In this webinar, **Introducing Multilin 859: Unlocking the Future of Motor Protection**, learn how to make your motor protection effortless with GE Vernova's new Multilin 859. This new member of the Multilin 8 Series family offers the power and features of the Multilin 869 motor protection relay in a compact form, ideal for constrained switchgear lineups and MCCs. Purposefully designed for a painless retrofit solution, it requires no wire adapters or plates when upgrading from existing 369, 269, and 169 Multilin relays and features our novel automated setting file conversion via GE Vernova's EnerVista setup software.

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GE VERNOVA



Introducing Multilin 859: Unlocking the Future of Motor Protection



QUESTION



ANSWER

What is the Multilin 859?

The Multilin 859 motor protection relay is the newest member of the GE Vernova Multilin 8 Series family. Its unique form factor and non-drawout construction make it the ideal upgrade for Multilin 369 relays or in locations where a shallow device depth is necessary. The 859 comes with the proven Multilin thermal model, along with many of the features of the existing 8 Series family.

Does the introduction of the 859 mean that GE Vernova is going to stop manufacturing the Multilin 369?

As of September 2021, we have not announced plans to stop manufacturing the 369. As with all our products, our goal is to give customers a last-time buy window of two years between the first announcement of the end of manufacturing and the last-time buy window closing. This announcement has not been made for the 369.

How do I retrofit a 369 with an 859?

The 859 has the same dimensions and wiring as the 369. The process to retrofit would be:

1. Download the settings from your existing 369.
2. De-energize and isolate the 369 from any voltage or current sources.
3. Remove the green phoenix connectors from the back of the 369, and unwire the CT and VT circuits.
4. Remove the 369 relay from the panel.
5. Mount the 859 into the panel using the existing cutout for the 369.
6. Plug the phoenix connectors on the 859. Re-land the CT and VT circuits on to the 859 terminal block.
7. Use 8 Series setup software to convert the 369 settings file to an 859 settings file.
8. Power the 859 and put the settings file into it using the 8 Series setup software.

[Learn more](#) about retrofitting with the 859.

Can I retrofit a 269 with an 859?

Yes.

The 859 has the same dimensions as the 269. You will not need to modify the panel or add an adapter plate, but some wiring modification will be required.



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QUESTION



ANSWER

What benefits do I get from upgrading to the 859?

The 859 has everything that you expect from a modern relay including a large graphical display, 2048 event sequence of event recorded, FlexLogic, motor health reports, and standard harsh conformal coating. Additionally, the 859 can be ordered with motor electrical signature analysis (ESA) to perform monitoring and diagnostics on your motor.

What are the main differences between the 859 and the Multilin 869 motor protection relay?

Each of these relays is purposefully designed with its own unique features:

- The 859 has smaller depth and different dimensions that are similar to the 369. It also supports a detachable display for greater installation flexibility.
- In contrast, the 869 features a drawout design that the 859 does not have. The 869 can be ordered with arc-flash sensors, supports synchronous motor protection and control, and has more flexibility on I/O count. It also supports differential protection.

How many RTDs will the 859 support?

The 859 has the same number of RTD inputs as the 369 does: 12 RTD inputs which can be expanded to 24 RTDs by adding a remote RTD (RRTD) module. Use the existing 369 RRTD to have remote RTDs mounted close to the motor, allowing you to avoid long leads and double your I/O count. Please note that the first 859 release supports a connection to the RRTD using RS485 serial.

Does the 859 have the same Modbus mapping as the 369?

The 859 has a new feature called flexmapping. Flexmapping lets you emulate the majority of the Modbus mapping of your 369 device's actual values.

Do I have to use a specific cable for the 859's remote display?

The 859 display can be separated and mounted remotely up to 15 feet/5 meters away from the main relay. No separate source of control power is required for the display module. A 15 foot/5 meter standard double-shielded twisted-pair network cable of CAT 6 or higher is used to make the connection between the display module and the main relay. A recommended and tested cable is available from GE Vernova. The cable should be wired as far as possible from high current or voltage-carrying cables or other sources of electrical noise.



QUESTION



ANSWER

What changes to the motor thermal model does the 859 have?

To help protect against the risk of overheating, the 859 uses the same proven motor thermal model as the 869, including pickup and curve settings, RTD biasing, unbalance biasing, and thermal lockout.

Where can I get more information on how to set the motor thermal model?

Several instructional videos exist on our resources page which can help, including a free webinar on [Understanding the Motor Thermal Model](#). You can find a comprehensive list of motor resources at: <https://resources.gegridsolutions.com/motor-protection>



For more information, visit
gevernova.com/grid-solutions

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