

ENSTO

Ensto Auguste Innovations

The devices in the Auguste range are overhead break disconnect switches designed to enable full-load disconnection up to 630 A of a medium voltage overhead electrical line up to 36 kV. These devices are suitable for all grid types, and in particular those requiring frequent switching in severe weather conditions. They are extremely reliable, and offer very advanced safety features, enabling them to be used with complete peace of mind.

Continuous improvement

The medium-voltage load break switches in the Auguste range were developed more than 20 years ago in partnership with customers, including the operators of public and private overhead electrical distribution networks. Since then, more than 18,000 Auguste devices have been installed around the world. Thank to this close relationship with its customers, Ensto has been able to refine its product on the basis of feedback and changing requirements in terms of electrical distribution.

Like the initial version of the product, these new functions have been developed in line with the following requirements:

- Offering a high-quality service
- Guaranteeing easy installation
- Safe operation
- Improving grid profitability by reducing sources of operating loss
- Increasing the accuracy of current and SF6 pressure measurement
- Increasing the ability to operate in severe weather conditions

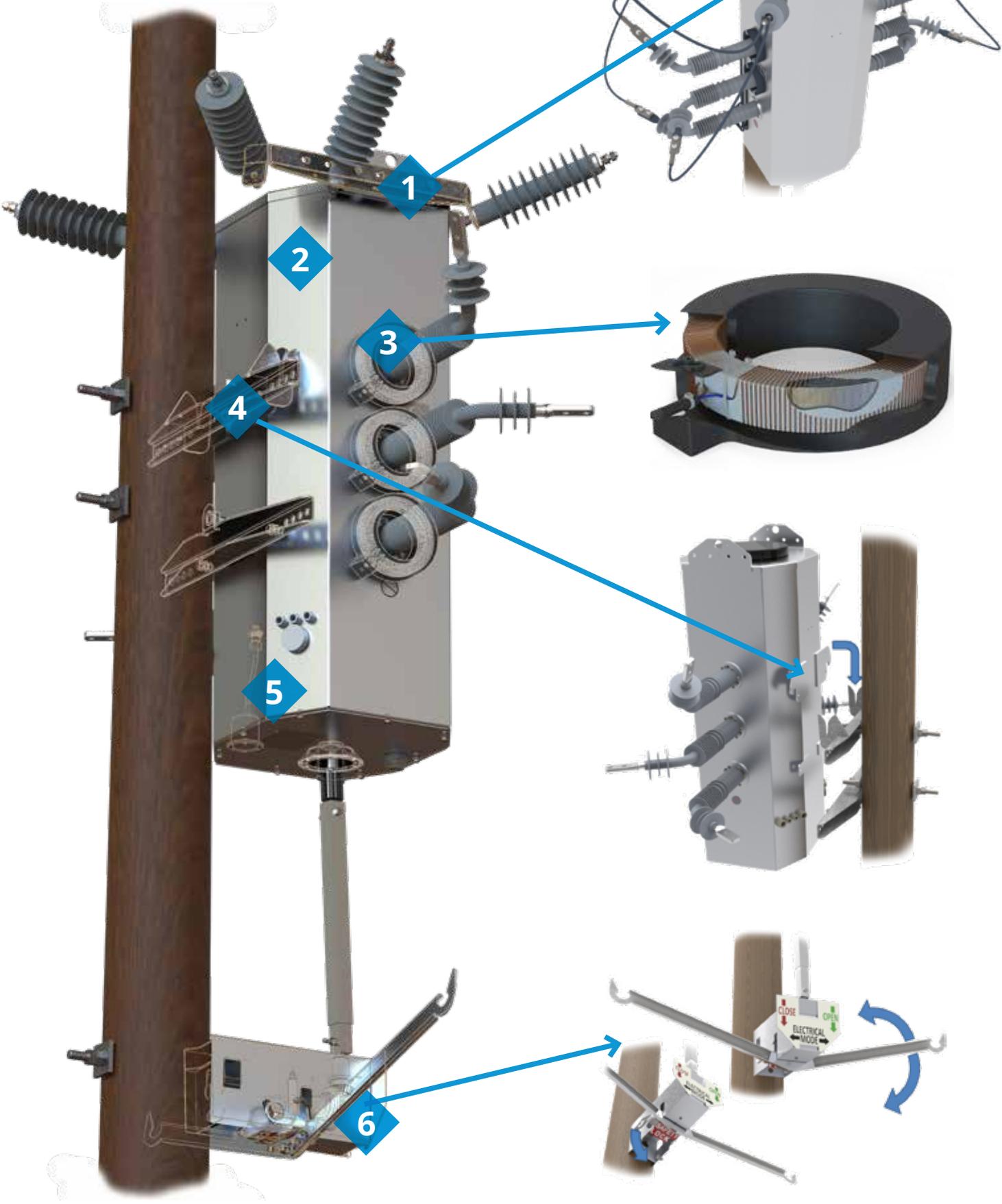
Better life.
With electricity.

Ensto designs and markets smart electrical solutions to improve the safety, functionality, reliability and effectiveness of Smart Grids, buildings and transport.

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Ensto Auguste

Innovations



1

Mounting surge arresters on the load break switch

In order to simplify its installation on the pole, the Auguste load break switch can be equipped with a mounting kit, which allows surge arresters to be installed directly on the load break switch while it is on the ground. Fitting this kit enables the number of installation operations at the top of the pole to be reduced and also allows the surge arresters to be naturally oriented in the right direction.

2

316L stainless steel body

As an option, the Auguste load break switch can be made from 316L, a higher grade of stainless steel. This material provides increased corrosion protection in locations that are particularly exposed to saline environments, including coastal areas or heavily polluted industrial areas.

3

Current sensors

The Auguste load break switch can be equipped with new sensors, which ensure precise current measurement in normal operation and in the event of line faults. They comprise a resin-encapsulated magnetic circuit.

They are installed on the load break switch in the workshop and are easily connected to the control cabinet when the load break switch is installed on site. These two sensor versions are available based on requirements.

- 5P10 sensor accuracy: less than 5% up to 6300 A
- 5P20 sensor accuracy: less than 5% up to 12,600 A

4

Universal pole mounting (clamping, banding, bolting)

The Auguste load break switch now has a new pole mounting device covering a wide range of configurations, while vastly improving safety during installation.

This device is available in several versions (mounting by clamping, banding and bolting) enabling it to adapt to all types of poles. It reuses a principle of the Auguste range: suspension of the load break switch. In this case, only one lifting operation is necessary and is carried out with no personnel on the pole.

These different mounting kits benefit from increased corrosion protection in locations that are particularly exposed to saline environments, such as coastal areas.

5

SF6 monitoring: an accurate range

In order to expand its range of SF6 monitoring sensors, Ensto is now offering a broader selection of sensors for its Auguste load break switch.

Existing sensors:

- Pressure switch (an electrical contact that opens/closes at a certain pressure threshold, usable down to -25°C)
- Density switch (an electrical contact that opens/closes at a certain pressure threshold, usable down to -50°C)

New sensors:

- Pressure switch with a pressure gauge display
- Density switch with a pressure gauge display
- Pressure gauge display only

6

100% stainless steel pole control

The Auguste load break switch is now equipped with a new 100% stainless steel pole control box. It is compact, can be added when the load break switch is already on the pole and does not need to be removed to access the switch's mechanism compartment for maintenance.

This pole control box has signal functions, locking in the open position and can accommodate a locking device.



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