The revolution in LV switchgear
EntellEon*
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The revolution in low voltage switchgear

EntellEon* is GE’s new low voltage switchgear platform. When it comes to safety in operation and maintenance, EntellEon considerably raises the bar, guaranteeing process continuity, high technical specifications and optimal product reliability.

EntellEon, a complete solution

From power distribution to sophisticated intelligent motor control applications, EntellEon is the ideal solution. Robust design, technical excellence and outstanding safety features make EntellEon the obvious choice for electrical installations in difficult environments, or whenever process continuity and optimal equipment availability are critical.

As part of the GE Industrial Solutions portfolio, EntellEon’s safe, reliable and efficient system helps distribute, protect and control electricity worldwide. GE offers everything from electrical balance of plant systems to fully tested plug & play e-house solutions.

Technical excellence and outstanding safety features, even in hazardous environments
EntellEon* applications

EntellEon offers you the best possible solutions, optimally adapted to the needs of your industry. We excel in processes that require:

- High continuity of supply
- Maximum safety for operators and installations
- Reliability under harsh environmental conditions
- Robust protection against seismic events or vibration
- Intelligent solutions for protection, monitoring and control

EntellEon always provides an excellent solution for your application. EntellEon's outstanding features include:

- Effective arc risk mitigation measures
- Internal arc protection
- Minimized downtime
- Marine and seismic qualification
- Form of internal separation up to form 4b
- Advanced communication capabilities
- High technical characteristics

With its product diversity, GE Industrial Solutions can supply complete solutions for your industry all the way from power generation to final distribution.
Why choose EntellEon*?

EntellEon has been designed in close consultation with our customers to ensure the product does what you really need it to do. The result is a system that meets all the key requirements and technical specifications of the demanding industrial market, as proven by comprehensive testing and full KEMA / DEKRA certification.

**Arc risk mitigation**
Arc fault events in electrical installations represent a serious risk to operating personnel and may do severe damage to the installation itself. That is why EntellEon offers a multitude of measures to minimise the likelihood of an arc fault event.

**Protection of personnel and equipment**
EntellEon's insulated busbar system, internal barriers and fully encapsulated contact system guarantee that arc faults are confined to predefined areas. They limit the arc burning time and avoid serious damage to the equipment. This improves system uptime and reliability and generate a safe work-environment for your operators.

**Easy & safe operation**
EntellEon means ultimate safety. RELT (Reduced Energy Let-Through) minimises the danger of arc flashes. The "Test" position with fully disconnected main stabs maximizes safety during maintenance and start-up. The new MCC rack-in mechanism allows smooth, safe operation of all MCC modules.

**Advanced communication solutions**
Modbus, Profibus & Ethernet can also be integrated into sophisticated industrial automation and communication solutions. GE Industrial Solutions supports stringent protection, control and monitoring requirements with intelligent electrical components.

**Highly technical features**
EntellEon has the capacity to support the highest technical requirements for both power distribution and motor control applications for currents up to 6400A and short circuit ratings up to 150kA.

**Maximum product safety & reliability**
EntellEon has been optimized and tested using state-of-the-art GE electrical components. The product is fully compliant with the new IEC 61439-1&2 and IEC 61641 standards and withstands faults related to internal arcing as well as stresses caused by seismic events.
EntellEon*

Product safety and process continuity

EntellEon* reduces the risk of an arc fault event to almost zero and prevents the arc fault from affecting other parts of the equipment. This ensures the highest possible product availability.

Guided pressure relief with pressure release flaps.

Robust industrial design for heavy-duty applications.

Fully encapsulated vertical busbar system.

Main busbar system with arc-proof coating.
Proven contact system with high reliability and safety.

EntellEon* is capable of confining an arc fault to the area where it ignited. Potential damages and system downtime will be minimized.

Main busbar system with arc-proof coating.

Phase separators at the breaker poles.
Maximum safety for operators during start-up, running and maintenance

TEST and DISCONNECTED positions easy visible to maintenance staff.

Special main breaker maintenance mode using RELT (Reduced Energy Let-Through).
Internal separation up to form 4b. Control cables are easy accessible from the front. To protect the operator, the terminals for main cables are fully encapsulated in individual sheet metal boxes.

New racking & guiding system ensures smooth, safe operation.

TEST position: main circuits are fully disconnected to allow safe startup and maintenance.

Special safety interlocking with earthed keybox.

The MCC design is providing full protection for the operator even when working on the energized equipment.
Advanced energy management, protection, control and monitoring capabilities

Intelligent GE components:
1. EntelliGuard G, air circuit breaker
2. AF series, frequency converter
3. ASTAT, softstarter
4. RSTi, intelligent terminal blocks
5. RX3i, programmable controller
6. Rxi, industrial PC controller

New auxiliary terminal (Profibus, Modbus RTU and Ethernet communication).
EntelliPro – Intelligent motor protection relay with smart touch-screen HMI module.

Intelligent measurement, protection & control products.

EntelliSmart...
advanced energy management & control solutions.
EntellEon* complies with following international standards and is tested at independent test bodies e.g. IPH, KEMA/DEKRA, etc.

Type tests


Special tests

• IEC 60529 Degrees of protection provided by enclosures. Define IP numbers used to quantify the degree of protection provided by enclosures.
• IEC 60068-2-30 Defining resistance to damp and heat. Wet Heat, 6 cycle with 24 h, 40°C, 95 % rel. humidity.
• IEC 60068-2-11 Defining resistance to salt mist. Salt fork, 2 cycle with 24 h, 35°C.
GE Industrial Solutions

GE Industrial Solutions is a first class global supplier of low and medium voltage products including wiring devices, residential and industrial electrical distribution components, automation products, enclosures and switchboards. Demand for the company’s products comes from wholesalers, installers, panelboard builders, contractors, OEMs and utilities worldwide.