SM6
HIGH VOLTAGE SWITCHBOARDS system SM6 - 24

In April 2020, **Spálovský, a.s.** concluded a licence partnership agreement with the Schneider Electric company for manufacture, delivery and service of HV switchboards, type SM6 – 24. The Spálovský, a.s. technicians and electrical fitters are trained in design, manufacture and service of HV SM6 switchboards according to the terms of constructions and projects in accordance with standards and regulations in force.

SM6 – 24 switchboard definition

It is an air-insulated modular switchboard guaranteeing high reliability for supply of secondary distribution circuits. SM6 – 24 is used in HV stations for consumer substations with a HV/LV transformer station in public distribution networks and private distribution circuits up to the maximum voltage of 25 kV and 1250 A.

Conformity with standard – IEC 62271-200

The SM6 – 24 switchboard is designed in conformity with the standard **IEC 62271-200** with the following parameters:

- Category of loss of service continuity: LSC2A
- Degree of protection: IP3x for external sides, IP2x between sections
- Class: Ik08
- Class of partitions: PI
- IAC AFL/AFLR

Temperature monitoring – standard equipment of every switchboard assembly

SMD – wireless system for on-line monitoring of operating conditions

SMD is a system focused on continuous 24/7 monitoring of operating conditions of HV devices. It utilizes wireless sensors mounted at critical places of HV switchboards and transformers. A unique algorithm evaluates operating conditions and immediately informs the operator on changes. It has been designed to reduce probability of failures and the maintenance time.

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We can give energy the right direction

HIGH SAFETY PI & LSC2A

SM6 – 24 has 3 sections

1. Bus-bar
2. Switch isolator (LBS)
3. Cable and switch area

Thanks to the insulating (PI) partition, there is no risk of approach to a section under voltage during work on another section.

SM6 – 24 has 2 LV areas

1. LV
2. Control mechanism

Thanks to the LSC2A class, there is no need to switch off the bus-bar system during work in the cable and switch area.

Safety of persons

To ensure safety of persons, the SMS6 – 24 system provides a high degree of protection – **3 sections for degassing.**

- The evacuation system exhausts gases from the bottom or top of the switchboard.
- Use of fire-resistant materials
- Reinforced structure of covers

SM6 Digital

- New IED Schneider of the Easergy P1, P3, P5 and RTU T300 series
- Covering all protective, control and monitoring functions for HV networks
- Containing functions for monitoring of the switch state and analysis of operating states
- For Easergy P3 and P5, inputs for HZO sensors are available optionally
- Immediate selection from 9 communication protocols with redundancy RSTP, HSR, PRP
- Metallic and optical communication ports, service USB interface
- Unique application for the mobile device EasergySmart APP
- Cybernetic safety according to Achilles 1&2, IEC62443, IEC62351-5
- Optional connection of wireless (Zigbee) temperature and humidity sensors

Technical support Spálovský, a.s.

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