# Dev24/36 Metal Enclosed Modular Switchgear Series

The Dev24/36 metal-enclosed modular switchgear series is an air-insulated (AIS) switchgear system that builds medium voltage functions from independently arranged modules. Designed to IEC 62271-200, it forms incoming, metering, bus coupler and transformer protection line-ups in building and industrial substations, with rated voltages of 24 kV and 36 kV, a main busbar rated up to 1250 A and short-time withstand currents up to 25 kA.

## Technical Specifications

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| **Applicable standards** | IEC 62271-200 (switchgear), IEC 62271-100 (circuit breakers), IEC 62271-102 (disconnectors and earthing switches) |
| **Rated voltage (Ur)** | 24 kV / 36 kV |
| **Rated lightning impulse withstand voltage (Up)** | 125 kV / 170 kV peak |
| **Rated short-duration power-frequency withstand voltage (Ud)** | 50 kV / 70 kV (1 minute) |
| **Rated frequency** | 50 Hz |
| **Main busbar rated current** | 630 / 800 / 1250 A |
| **Short-time withstand current / peak withstand current** | 16 – 25 kA (1 s) / 40 – 63 kA peak |
| **Module types** | Switch-disconnector incomer, fused switch-disconnector transformer feeder, circuit breaker feeder, metering module, bus coupler, busbar riser |
| **Switching and isolating devices** | Vacuum circuit breaker (fixed or withdrawable), switch-disconnector, disconnector, HV HRC fuses |
| **Earthing** | Each module has a short-circuit-making earthing switch. |
| **Partitioning** | Metal enclosure; loss of service continuity category LSC2A, partition class PI or PM |
| **Internal arc classification** | IAC A; FL/FLR accessibility, top or rear venting (optional) |
| **Insulation medium** | Air (AIS); epoxy post insulators, heat-shrink busbar insulation |
| **Metering and protection** | Current transformers, voltage transformers, digital protection relay, ammeter and voltmeter, capacitive voltage indicator |
| **Interlocks** | Mechanical interlocking: disconnector – earthing switch – door interlock chain, key interlocks |
| **Enclosure** | Cold-rolled (DKP) or aluminum-zinc coated sheet steel; frame 2 mm, doors and covers 1.5 – 2 mm |
| **Surface treatment** | Electrostatic powder coating, standard RAL 7035 (different RAL colors available upon request) |
| **Cable connection** | Bottom entry for XLPE cables; separate cable compartment with access to cable terminations |
| **Communication** | Modbus RTU / Modbus TCP (optional) |
| **Expandability** | Modules can be added to the right or left via the main busbar |

**Certification:** Metal-enclosed switchgear designed to IEC 62271-200 · ISO 9001:2015 quality management system · CE.