



LOW-VOLTAGE DRAW-OUT SWITCHGEAR



Overview:

GRID's low-voltage draw-out switchgear provides reliable electrical regulation, protection, monitoring, and power distribution for commercial, industrial, and utility applications. Featuring removable circuit breaker units for safe, efficient maintenance, these systems deliver flexible, field-proven performance for voltage classes up to 1000V while minimizing downtime and enhancing operational safety.

Features:

- **Draw-out Design:** Circuit breakers can be safely removed without de-energizing the entire panel—supports testing, maintenance, and rapid replacement.
- **Modular Design:** Replaceable components and flexible assembly for streamlined installation and future expansion.
- **Multiple Protection Levels:** IP30, IP40, and IP54 enclosures available to suit diverse environmental conditions.
- **Custom Cable Management:** Site-specific cable paths with integrated repair components for fast field deployment.
- **Clear Unit Identification:** Each compartment clearly marked with secure three-point latching system.

Lead Time:

Approximately **18-30 months** after drawings approved.

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Parameters & Safety Specifications

Voltage Rating	Up to 690V / 400V
Voltage Insulation Rating	Up to 690V / 1000V
Standards Compliance	IEC 61439-1
Enclosure Protection	IP30, IP40, IP54
Breaker Type	Draw-Out

Applications & Use Cases:

- Commercial and industrial power distribution systems
- Utility substation low-voltage distribution
- Renewable energy integration and balance-of-plant systems
- Municipal infrastructure and critical facilities
- High-availability environments requiring minimal downtime for maintenance

Advantages:

Enhanced safety: Draw-out breakers allow maintenance without exposure to live bus bars or full system shutdown

Reduced downtime: Quickly remove and replace breakers while keeping other circuits operational

High precision and durability: Built for continuous operation in demanding environments

Easy maintenance: Tool-friendly assembly and disassembly reduces service time and labor costs

Adaptable configuration: Custom cable routing and modular construction support evolving site requirements

Standards-compliant: IEC 61439-1 certification ensures compatibility and safety across international projects



IEEE

IEC

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