



Medi Power



KMP G3

SF₆-gas insulated medium voltage switchgear system

MediPower KMP G3



KÖHL offers a complete range of air and gas insulated switchgear equipment for medium voltage applications in primary and secondary distribution networks. These are characterized by state-of-the-art technology, efficiency and user friendliness. Its high level of functionality combined with excellent personal protection ensures maximum safety in the power distribution process.

MODULAR DESIGN WITH A WIDE RANGE OF FUNCTIONS

Circuit breaker cabinets

- ▶ Circuit breaker panel with vacuum circuit breaker
Disconnecter and earthing switching
- ▶ Longitudinal section coupling with vacuum circuit breaker
Disconnecter and earthing switching
- ▶ Riser panel
- ▶ Measuring section
- ▶ Busbar measurement
- ▶ Busbar earthing

The product range comprises cabinets for the following nominal data:

| | | | | |
|---------|--------|--------|--------|------------|
| 12 kV | 630 A, | 800 A, | 1250 A | 25 kA (3s) |
| 17,5 kV | 630 A, | 800 A, | 1250 A | 25 kA (3s) |
| 24 kV | 630 A, | 800 A, | 1250 A | 25 kA (3s) |

TECHNOLOGY

Each cabinet metal-enclosed and optionally stackable. The tank consists of stainless-steel sheeting with hermetically sealed gas compartment filled with SF₆ gas and is therefore independent of environmental conditions. A built-in gas filling nozzle enables evacuation or refilling of the switch section, complying with the environment-friendly recuperation of the SF₆ gas.

The drive section and the low-voltage section are accessible from the front. The gas-tight welded gas com-

partment features an assembly opening at the front covered with a flange plate.

Switchgear drives are assembled with the required accessories (actuator, auxiliary switch, motor drive etc.) on the front flange plate. On the housing's back is a rupture disk, which opens in the event of an arc fault. Pressure is relieved through a pressure release channel located in the back, and thereby, the system reaches the arc fault classification IAC AFLR 25kA 1s.

IEC 62271-200

VDE 0671 Teil 200

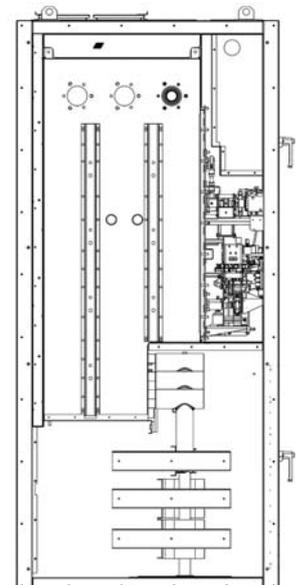
Arc fault classification IAC AFLR 25kA, 1s



TECHNICAL FEATURES IN DETAIL

| Rated voltage | kV | 12 | 17,5 | 24 |
|--|----|--------------|--------------|--------------|
| Rated busbar current | A | 630/800/1250 | 630/800/1250 | 630/800/1250 |
| Rated input and output current | A | 630/800/1250 | 630/800/1250 | 630/800/1250 |
| Rated short-time current | kA | 25 | 25 | 25 |
| Rated short-circuit durations | s | 3 | 3 | 3 |
| Rated surge | kA | 63 | 63 | 63 |
| Rated lightning impulse withstand voltage 1,2/50 | kV | 75 | 95 | 125 |
| Rated power frequency withstand voltage | kV | 28 | 38 | 50 |
| Rated frequency | Hz | 50/60 | 50/60 | 50/60 |
| Protection type | IP | 4X | 4X | 4X |

| Field dimensions | 12 - 24 kV | |
|--|---------------|----------------|
| W/D/H mm | 450/1000/2200 | 600/1000/2200 |
| Circuit breaker fields | | |
| Circuit breaker field 630...800 A Single cable | ● | |
| Circuit breaker field 1250 A Duplex cable | | ● |
| Circuit breaker cabinet with voltage converter on the output side | | ● |
| Coupling cabinet with circuit breaker and upwards line in 1250 A | | ● |
| Riser panel | | ● |
| Circuit breaker panel with busbar measuring | | ● High: 2400mm |



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Additional information