



Brakel® Modular control panel MZ3 16A - 192A

Modular expansion and most compact control panel for SHE and natural ventilation on the market

The MZ3 is a functional, modular and configurable monitoring and control system for smoke ventilation systems, which can also be used for natural ventilation, or integrated into the building management system. During the planning and configuration of an MZ3 with the planning and configuration tool, individually required functions are put together by simply dragging and dropping a file onto the PC interface.



Advantages / Features

- New functional approach of the system configuration
- Very flexible, project-specific solutions with different configurable functions possible
- Networkable control for decentralized system configuration via BUS-System
- Integrated features such as wind direction and wind strength-dependent smoke extraction, opening width limitation on any position, maintenance and monitoring function, configurable status reports for each area, temperature-controlled ventilation control, night cooling, different shading functions and processing of analogue values
- Cross linking with building control systems via bus systems such as LON, KNX, etc.
- Reduced wiring
- Configuration with user-friendly planning and configuration tool facilitates
- Easy configuration through drag and drop. The configuration program determines all the components and calculates the cost and space efficient variant
- Energy supply tested in accordance with EN 12101-10

Applications

- NSHEV (Natural smoke & heat ventilation)
- MSE (Mechanical smoke extraction)
- Natural ventilation
- Ventilation control
- Wind direction and wind strength-dependent smoke extraction and ventilation

Material

- Metal housing.

Technical specifications

| Electrical Properties | |
|-------------------------------------|--|
| Primary power supply | |
| Mains supply voltage | 230 VAC / 50 Hz ($\pm 15\%$), for output currents $\leq 64A$ 400 VAC / 50 Hz ($\pm 15\%$), for output currents $\geq 64A$ |
| System voltage | 27 VDC (nominal) (- 25% / + 10%) |
| Output current | from 16 A to 192 A |
| Input current | from 2,5 A to 3 x 10 A |
| Power consumption | from 540 W to 6480 W |
| Safeguard | Mains: 230 VAC; T 3,15 A / H Motor circuit FKS 10 A |
| Secondary power supply | |
| Battery | 2 x (12 V, 12 Ah) (Output current 16 A) Or 2 x (12 V, 18 Ah) (Output current 32 A) VdS approval |
| Safeguard | FKS 40 A |
| Mechanical properties | |
| Dimensions (H x W x D) | Dimensions cabinet |
| Installation and ambient conditions | |
| Ambient temperature | - 5 °C to + 40 °C |
| Protection type | IP 42 |

Dimensions cabinet

| Output current | Height (mm) | Width (mm) | Depth (mm) |
|-----------------------|-------------|------------|------------|
| 16 A | 600 | 400 | 210 |
| 32 A | 800 | 600 | 210 |
| 48 A / 64 A | 800 | 600 | 210 |
| 80 A / 96 A | 800 | 800 | 210 |
| 112 A / 128 A / 144 A | 1000 | 1200 | 300 |
| 160 A / 176 A / 192 A | On request | | |

