

KE 3002

Compact Station 3.3 kV



- Innovative switchgear with modular technology and plug-in connections, which redefines the concept of a compact station.
- Both slots can be equipped with a power contactor unit.
- Every plug-in unit has its own circuit breaker and earthing device.
- The operating parameters and tripping limit values for the plug-in units are entered in the display and control units in the intrinsically safe terminal compartment. The compact station does not have to be opened or shut down for this purpose.
- Simple connection using plug-in-connectors reduces the installation costs. Fast trouble shooting due to modular technology minimises downtimes.

KE 3002



Compact

A plug-in connector attached directly to the flameproof enclosure makes it possible to do without voluminous terminal compartments and to offer compact switchgear that also does justice to the term "compact".

Modular Technology

The plug-in units are ready-for-use units. They are just inserted into the switchgear and activated as well as deactivated by its own disconnecting device – more is not required. Two power contactor units of the type HPC 450-3 can be operated in the KE 3002.

Power Bus

Several compact stations can be connected in series via the connections for the power bus on both sides.

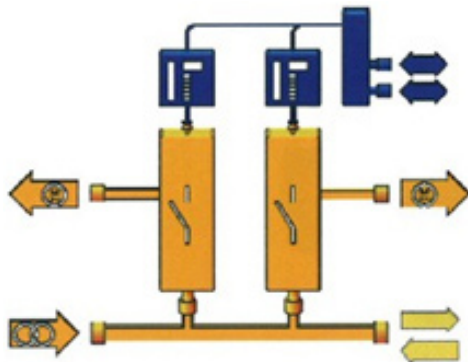


Figure 1: Power Bus in the KE3002

Circuit Breaker

Each plug-in unit has its own circuit breaker. In the disconnected state, the plug-in unit is removed from the power bus and completely electrically decoupled from the switchgear. The quick-acting door cannot be opened until all plug-in units have been disconnected.

Parameterisation

The operating parameters for every plug-in unit are set on the display and control units in the intrinsically safe terminal compartment and permanently stored there. As soon as the plug-in unit is switched on, the values stored there are transferred to it. If a plug-in unit is changed, no new entry of parameters is required.

Control System

The KE 3002 can either be controlled in a parallel manner using contacts or in a serial manner using various interfaces.

Electrical Data

Nominal voltage	3.3 kV AC
Mains frequency	50/60 Hz
Total current	500 A
Current at each output	400 A
Short-circuit resistance	13 kAeff
Surge strength	41 kA

Mechanical Data

Approx. height	639 mm
Approx. width	910 mm
Approx. depth	822 mm
Approx. weight, fully equipped	250 kg

Explosion Protection

Type of protection	EEX [ia/ib] ia/ib m I
Certificate	

The specified technical data comprises standard values.

Other binding technical data are contained in the operating instructions, which are available in the „Support“ area on the Becker Mining Systems Website.