ZX0.2 for OEM partners

Gas insulated medium voltage switchgear

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ZX0.2
Now also for 36 kV

Metal-enclosed

As a further development of the tried and tested ZX0, ZX0.2 with its high current carrying capacity of 3150 A for incoming feeders, busbars and switchdisconnectors now also the circuit-breakers up to 36 kV.

The metal-enclosed single busbar system is suitable not only for wall-mounted installation, but also for free-standing installation with IAC classification AFLR to IEC62271-200.

The switchgear can be operated in networks with short-circuit currents up to 31.5 kA.

Due to long cable-bushing the use of very high frequency, even at low primary currents, is permitted.

The low voltage compartment and operating mechanism bay are in general spatially separated from each other. Local operation of the panel is effected manually at the freely accessible operator control area in front of the mechanism bay, with options of electrical qualifications and remote control.

Mechanical interlocking of the operating mechanisms in defined switch positions prevents manipulation.

Configurations

Together with incoming and outgoing feeder panels with circuit-breakers for various rated currents, panel variants for sectionalizing, pure disconnector panels or outgoing feeder panels with switch-disconnectors and HV HRC fuses (up to 24 kV) round off the range.

Accessibility

The switchgear can be operated remotely or by controls located on the front of the panels. The power cables are accessible at the front of the system. The panels can be installed optionally against a wall or free-standing in the room with an additional rear wall to protect the operators.

SF6 insulation

Hermetically sealed enclosures filled with SF6 insulating gas, and solid insulation, ensure that all live voltage parts are protected from dust, humidity, harmful gases or vermin.

OEM added value

With the ZX0.2, we offer you as an OEM the maximum possible added value from a gas-insulated medium voltage switchgear system.

We can offer you packages at various configuration stages, or enter into long-term cooperation agreements. You can select the scope of your additions together with us and jointly assess the potential.

Potential components

Our modular system offers you flexible design opportunities. Your added value can be derived, for example, from a wide variety of metal parts outside the gas compartment, such as floor covers, and covers, busbar covers, cable compartment covers or line voltage compartments (including the equipment installed).

Following appropriate qualification by our company, you can perform both system planning and project management independently.

Furthermore, you are enabled to purchase the current and voltage transformers and the solid-insulated busbar from reliable partners.

Our share

As a minimum, this constitutes the gas-filled high voltage compartment with permanently installed vacuum circuit-breakers and three position disconnector, and their operating mechanisms and the high voltage bushings.

High quality solutions

As a partnership concept, we can jointly offer reliable customized solutions.

ZX0.2-components

Do it yourself
Metal-enclosed
As a further development of the tried and tested ZX0, ZX0.2 with its high current carrying capacity of 3120 A for incoming feeders, busbars and sectionalizers now the use-case for voltages up to 36 kV.
The metal-enclosed single busbar system is suitable not only for wall mounted installation, but also for free-standing installation with IEC classif k0.2 to IEC62271-200. The switchgear can be operated in networks with short-circuit currents up to 31.5 kA.
Due to long cable distances the use of the current transformers may vary very efficiently, even at low primary currents, it is permitted.
The low voltage compartment and operating mechanism bay are in general spatially separated from each other. Local operation of the panel is effected manually at the freely accessible operator control area in front of the mechanism bay, with options of electrical qualifications and remote control.
Mechanical interlocking of the operating mechanisms in defined switch positions prevents maloperation.

Configurations
Together with incoming and outgoing feeder panels with circuit breakers for various rated currents, panel variants for sectionalizing, pure disconnector panels or outgoing feeder panels with switch-disconnectors and HV HRC fuses (up to 24 kV) round off the range.

Accessibility
The switchgear can be operated remotely or by controls located on the front of the panels. The power cables are accessible at the front of the system. The panels can be installed optionally against a wall or free-standing in the room with an operator control area in front of the mechanism bay, with its high current carrying capacity of 2500 A for incoming feeders, busbars and sectionalizers offers now the use of possible added value from a gas-insulated medium voltage switchgear system.

As a further development of the proved ZX0, ZX0.2 for OEM partners

ZX0.2
Now also for 36 kV

Z0X.2 - components
Do it yourself

OEM added value
With the ZX0.2, we offer you as an OEM the maximum possible added value from a gas-insulated medium voltage switchgear system.

We can offer you packages at various configuration stages, or enter into long-term cooperation agreements. You can select the scope of your additions together with us and jointly assess the potential.

Potential components
Our modular system offers you flexible design opportunities. Your added value can be derived, for example, from a wide variety of metal parts outside the gas compartment such as floor covers, and covers, busbar covers, cable compartment covers or low voltage compartments (including the equipment installed).

Following appropriate qualification by our company, you can perform both system planning and project management independently.

Our share
As a minimum, this constitutes the gas-filled high voltage compartment with permanently installed vacuum circuit-breaker and three position disconnector, and their operating mechanisms and the high voltage bushings.

High quality solutions
As a partnership concept, we can jointly offer reliable customized solutions.

The switchgear can be operated remotely or by controls located on the front of the panels. The power cables are accessible at the front of the system. The panels can be installed optionally against a wall or free-standing in the room with an operator control area in front of the mechanism bay, with options of electrical qualifications and remote control.
Mechanical interlocking of the operating mechanisms in defined switch positions prevents maloperation.

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Together with incoming and outgoing feeder panels with circuit breakers for various rated currents, panel variants for sectionalizing, pure disconnector panels or outgoing feeder panels with switch-disconnectors and HV HRC fuses (up to 24 kV) round off the range.

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The switchgear can be operated remotely or by controls located on the front of the panels. The power cables are accessible at the front of the system. The panels can be installed optionally against a wall or free-standing in the room with an operator control area in front of the mechanism bay, with its high current carrying capacity of 2500 A for incoming feeders, busbars and sectionalizers offers now the use of possible added value from a gas-insulated medium voltage switchgear system.

As a further development of the tried and treated ZX0, ZX0.2 with its high current carrying capacity of 3120 A for incoming feeders, busbars and sectionalizers now the use-case for voltages up to 36 kV.
The metal-enclosed single busbar system is suitable not only for wall mounted installation, but also for free-standing installation with IEC classif k0.2 to IEC62271-200. The switchgear can be operated in networks with short-circuit currents up to 31.5 kA.
Due to long cable distances the use of the current transformers may vary very efficiently, even at low primary currents, it is permitted.
The low voltage compartment and operating mechanism bay are in general spatially separated from each other. Local operation of the panel is effected manually at the freely accessible operator control area in front of the mechanism bay, with options of electrical qualifications and remote control.
Mechanical interlocking of the operating mechanisms in defined switch positions prevents maloperation.

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Mechanical interlocking of the operating mechanisms in defined switch positions prevents maloperation.
Metal-enclosed 
As a further development of the tried and tested ZW-2, ZW-2 can be used from 36 kV with high current carrying capacity of 2500 A for incoming feeders. Bussbars and switchgear sections now allow the assembly of voltages up to 36 kV. The metal-enclosed single busbar system is suitable not only for wall-mounted installation, but also for free-standing installation with IAC classification AFL to IEC62271-200. The switchgear can be operated in networks with short-circuit currents up to 31.5 kA. Due to long cable bushings the use of current transformers with very high efficiency, even at low primary currents, is permitted.

The low voltage compartment and operating mechanism bay are in general electrically separated from each other. Local operation of the panel is effected manually at the freely accessible operator control area in front of the mechanism bay, with options of electrical pushbuttons and remote control. Mechanical interlocking of the operating mechanisms in defined switch positions prevents maloperation.

Technical data

- Internal Arc Classification: 1) Wall installation IAC AFL 31.5 kA 1s, Free-standing installation IAC AFLR 31.5 kA 1s
- Rated short-time current 3 s for circuit-breaker kA: 80/80/80
- Rated peak withstand current for circuit-breaker kA: 80/80/80
- Rated voltage kV: 12/24/36
- Rated current of tee-off with switch-disconnector and fuses A: 1250/1250/1250
- Rated current of tee-off with circuit-breaker A: 2500/2500/2500
- Rated frequency Hz: 50/60/50
- Rated current of busbars A: 2500/2500/2500

Incomer panel

- SF6 Insulation: 30 bar/30 bar/30 bar
- Additional rear wall to protect the operator, optionally against a wall or free-standing in the room with an accessibility up to 2.4 m.
- The switchgear can be operated remotely or by controls located in front of the mechanism bay, with options of electrical pushbuttons and remote control. Furthermore, you are enabled to purchase the current and voltage transformers and the solid-insulated busbars from reliable partners.

Our share

As a minimum, this constitutes the gas-filled high voltage compartment with permanently installed vacuum circuit-breakers and three position disconnector, and their operating mechanisms and the high voltage bushings.

High quality solutions

As a partnership concept, we can jointly offer reliable customized solutions.

OEM added value

With the ZW-2, we offer you as an OEM the maximum possible added value from a gas-insulated medium voltage switchgear system.

We can offer you packages at various configuration stages, or enter into long-term cooperation agreements. You can select the scope of your additions together with us and jointly assess the potential.

Potential components

Our modular system offers you flexible design opportunities. Your added value can be derived, for example, from a wide variety of steel metal parts outside the gas compartment such as floor covers, end covers, busbar covers, cable compartment covers or low voltage compartments (including the equipment installed).

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ZX0.2 components

Do it yourself

ZX0.2 for OEM partners

Primary panel without low voltage compartment

- Core module
- Gas filled core module
- Cable termination compartment

Primary panel with low voltage compartment

- Core module
- Gas filled core module
- Cable termination compartment

Potential components

- Switching devices and operating mechanism inclusive interlocking between switching device
- Interlocking for cable compartment cover
- Fixed mounted HT with disconnecting device
- Plug-in line HT with disconnecting device
- Mechanism for HT disconnecting device
- Auxiliary switch for disconnecting device

Cable termination compartment

- Optional cable for power cables
- Switching connection cable
- Cable sleeve and cable holder
- Gland fitting for vacuum circuit-breaker
- Additional support frame (only for transport)

Legend:

- = equipped as standard
- n = not available
- o = optional
ZX0.2 for OEM partners
Gasinsulated medium voltage switchgear

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Additional components:
Example: Busbar assemblies complete

Legend:
● equipped as standard
○ optional available
- not available

ZX0.2 scope of supply in dependency of the OEM category: Low voltage compartment and mechanism bay
- Core module
- Primary panel without low voltage compartment
- Primary panel with low voltage compartment

Core module
- Low voltage compartment
- Wiring frames
- Low voltage compartment door
- Door-related door cut-outs
- Protection and control devices

Mechanism bay
- Enclosure without front cover
- Final case
- Cover for push buttons
- Capacitive voltage ratio dividers
- Additional signal relay for gas density (pressure)
- Motor diagram

Legend:
● equipped as standard
○ optional available
- not available

Additional components:
Example: Busbar assemblies complete

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Gasinsulated medium voltage switchgear

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Legend:
● = equipped as standard
○ = optional available
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