Gas-insulated switchgear
Type ZX2
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Medium voltage switchgear type ZX2
Single or double busbar systems

- 12 kV, ...2500 A, ...40 kA
- 24 kV, ...2500 A, ...40 kA
- 36 kV, ...2500 A, ...40 kA
Gas-insulated switchgear
Type ZX2

With IAC classification
AFLR 40 kA 1s

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated voltage</td>
<td>kV</td>
</tr>
<tr>
<td></td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>36 ¹)</td>
</tr>
<tr>
<td>Rated current of busbars</td>
<td>A</td>
</tr>
<tr>
<td></td>
<td>...2500</td>
</tr>
<tr>
<td></td>
<td>...2500</td>
</tr>
<tr>
<td></td>
<td>...2500</td>
</tr>
<tr>
<td>Rated current of tee-offs</td>
<td>A</td>
</tr>
<tr>
<td></td>
<td>...2500</td>
</tr>
<tr>
<td></td>
<td>...2500</td>
</tr>
<tr>
<td></td>
<td>...2500</td>
</tr>
<tr>
<td>Rated short-circuit breaking current</td>
<td>kA</td>
</tr>
<tr>
<td></td>
<td>...40</td>
</tr>
<tr>
<td></td>
<td>...40 ²)</td>
</tr>
<tr>
<td></td>
<td>...40 ²)</td>
</tr>
<tr>
<td>Insulating gas</td>
<td>SF₆ ³)</td>
</tr>
<tr>
<td></td>
<td>SF₆ ³)</td>
</tr>
<tr>
<td></td>
<td>SF₆ ³)</td>
</tr>
<tr>
<td>Width a</td>
<td>mm</td>
</tr>
<tr>
<td></td>
<td>600 / 800 ⁴)</td>
</tr>
<tr>
<td></td>
<td>600 / 800 ⁴)</td>
</tr>
<tr>
<td>Height b</td>
<td>mm</td>
</tr>
<tr>
<td></td>
<td>2300</td>
</tr>
<tr>
<td>Depth c</td>
<td>mm</td>
</tr>
<tr>
<td></td>
<td>1860 (with 500mm deep LV compartment)</td>
</tr>
</tbody>
</table>

¹) Higher values as per international standards on request
²) 600 mm panel width up to 31.5 kA rated short-circuit breaking current
³) Insulating gas: sulphur hexafluoride (SF₆)
⁴) Rated feeder current above 1250 A
⁵) Double feeder panel up to 25 kA, 2 x 630 A
Gas-insulated switchgear
Type ZX2

Double busbar panel for 1250 A

1. HMI of multifunctional protection and control unit
2. Three position disconnector operating mechanism
3. Three position disconnector
4. Pressure sensor (temperature-compensated)
5. Circuit-breaker operating mechanism
6. Cable socket
7. Cable plug
8. Electronic unit of multifunctional protection and control unit
9. Block sensor or transformer
10. Testsocket
11. Pressure relief disc
12. Pressure relief duct
13. Circuit-breaker
14. Measuring sockets for capacitive voltage indicator system
15. Busbars

SF₆
Gas-insulated switchgear
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Bay Control Unit
- Modern solution of a conventional switchgear control in ZX
- Integral control, indication and annunciation unit
- Conventional control without active components
- Control via conventional push-buttons and key operated local / remote switch
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Single lines of switchgear variants (SBB)

Feeder panel  Cable connection  Bus sectionalizer in one panel  BB-metering
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Single lines of switchgear variants (DBB)

Feeder panel  Bus coupler  Bus sectionalizer
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Single lines of switchgear variants (DBB)

Bus section w/o circuit-breaker

BB-metering
Gas-insulated switchgear
Type ZX2

Double busbar panel for 2000 A

1. HMI of multifunctional protection and control unit
2. Three position disconnector operating mechanism
3. Three position disconnector
4. Pressure sensor (temperature-compensated)
5. Circuit-breaker operating mechanism
6. Secondary terminals of current transformer
7. Cable socket
8. Cable plug
9. Electronic unit of multifunctional protection and control unit
10. Plug-in voltage transformer
11. Multifunctional socket
12. Pressure relief disk
13. Current transformer
14. Pressure relief duct
15. Circuit-breaker
16. Measuring sockets for capacitive voltage indicator system
17. Busbars

SF₆
Gas-insulated switchgear
Type ZX2

Single busbar panel with outer cone connection for up to 1250A

1. HMI of multifunctional protection and control unit
2. Pressure sensor (temperature-compensated)
3. Circuit-breaker
4. Electronic unit of multifunctional protection and control unit
5. Plug-in isolatable voltage transformer
6. Ring type current transformer
7. Outer cone cable connector
8. Pressure relief duct
9. Pressure relief disc
10. Measuring sockets for capacitive voltage indicator system
11. Three position disconnector
12. Busbars

SF₆
Gas-insulated switchgear
Type ZX2

Double feeder panel up to 24 kV
630 A for each feeder

1 Multifunctional protection and control unit
2 Three position disconnector operating mechanism
3 Three position disconnector
4 Pressure sensor (temperature-compensated)
5 Circuit-breaker operating mechanism
6 Outer cone cable bushing
7 Current transformer or Rogowski coil
8 Outer cone cable plug
9 Circuit-breaker
10 Pressure relief disk
11 Pressure relief duct
12 Measuring sockets for capacitive voltage indicator system
13 Busbars

SF₆
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Integrated double busbar metering with plug-in voltage transformer in air on top of panels with 2000A feeder current
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Bus coupler DBB 2000 A

Bus sectionalizer DBB 2000 A

- Optional equipped with current detection by
  - Block device
  - Block device + bushing current transformer
  - Bushing current transformer
  - also without current detection

1250 A panels of width 600 mm are available with block device or without current detection
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Advantages

- Partitioned function compartments ➤ maximum safety
- Completely shockproof enclosures
- High voltage section totally independent of environmental influences
- No effect of site altitude on dielectric strength
- Maximum availability for the operator
- Independence of the environment makes for extremely long system life
- Minimum maintenance requirement
- Longer life than other system types
Power and productivity for a better world™