SPREPOWER MV
MEDIUM VOLTAGE SWITCHGEARS
The name “Sprecher” stands for high-quality and reliable medium voltage solutions.

Originating as a subsidiary of the Swiss company Sprecher & Schuh, Sprecher Automation 2004 brought the manufacturing of medium voltage switchgears – using the brand name “SPREPOWER” – back to the traditional premises in Linz.

Together with its modern and reliable SPRECON control and protection systems (SPREcher CONtrol), Sprecher is a turnkey system provider including factory-assembled MV switchgears which are designed to meet our customers’ needs.

All switchgear types are based on a flexible and modular system. Sprecher Automation offers project management, overall and detailed planning, assembly, final assembly and final inspection as well as testing. Beside ready-made delivery, Sprecher also provides on-site installation, commissioning as well as service and maintenance.

SPREPOWER PRIMARY TECHNOLOGY
- Metal-enclosed, compartmented and factory-built MV switchgears as standard or customer-specific solutions
- Transformer stations
- Furnace switchgears
- Upgrading of existing switchgears in accordance with respective standards
- Extensions of existing switchgears of other manufacturers
- Substitution of switching devices

SPRECON SECONDARY SYSTEMS
- Conventional and digital secondary systems
- Station control systems
- Remote control systems
- Protection systems
- One-box solutions for combined control and protection
- Customer-specific user interfaces and modes
- Arc monitoring systems
- Temperature monitoring
HIGH VOLTAGE LEVEL (SPREPOWER HV)

- Overhead Line Feeder
- Bus Coupler
- Transformer
- Incoming Feeder
- Outgoing Feeders

MEDIUM VOLTAGE LEVEL (SPREPOWER MV)

- Transformer
- Incoming Feeder
- Outgoing Feeders
- Bus Sectionaliser
- Transformer
- Incoming Feeder

LOW VOLTAGE LEVEL (SPREPOWER LV)

- Circuit Breaker (Outgoing Feeder)
- Fused Outgoing Circuit
- MCC (Outgoing Feeder)
- MCC (Outgoing Feeder)
- Circuit Breaker (Outgoing Feeder)
SPREPOWER medium voltage switchgears are developed and type-tested according to the following standards:

- EN 62 271-200
  Metal-enclosed switchgear > 1 < 52 kV
- EN 62 271-100 / IEEE C37.013
  Circuit breakers
- EN 62 271-102/-103
  Disconnectors and earthing switches/load-break switches
- EN 61 869-2
  Current transformer
- EN 61 869-3
  Voltage transformer
- EN 62 271-1
  Common specifications
- EN 60 529
  Degrees of protection provided by enclosures
- EN 50 110-1
  Operation of electrical installations

**DESIGN CHARACTERISTICS**

SPREPOWER cubicles consist of high-quality zinc-plated steel sheets with bolts or rivets. The cubicle doors and the side covers are powder-coated. Folded edges lead to a distortion-resistant, self-supporting and pressure-proof construction.

Adjacent cubicles are separated by the two side walls and by air gaps.

**DOCUMENTATION**

Circuit diagrams are designed with ELCAD®, EPLAN® or RUPLAN® in their current/updated releases. As an option, documentation can also be provided with different CAE systems. All layouts and drawings are designed with AutoCAD®.
MAIN FEATURES OF SPREPOWER

- Air-insulated, minimised use of plastic material
- Air-insulated or SF6 circuit-breakers and power contactors
- Fixed mounting and withdrawable-unit design
- Motorised and remote-controlled switching device drives
- Standardised metering transformers
- Integrated, type-tested pressure release ducts
- Easy operation when front doors are closed
- Internal arc tested compartments for highest personnel safety
- Usage of freely available components and devices
- Customer-specific switchgears
- IEC/DIN current and voltage transformer
- Customer-specific secondary systems
- High cable compartment
- Metal-clad circuit breaker compartment and cable compartment

OPTIONS

- Motor drives for all switching devices
- Type-tested pressure release duct with release flaps for discharging gas from internal faults to atmosphere
- Capacitive voltage indication
- Additional mechanical and electromagnetic interlocking for device drives, front doors, etc.
- Partial insulation of busbars and nodal point covers
- Control wire identification
- Specific dimensions (i.e. bay width)
- Arc monitoring systems (optical or pressure sensors)
- Temperature monitoring
- Special accessories such as lifting trucks for withdrawable circuit breakers
# Overview SPRePOWER MV

<table>
<thead>
<tr>
<th>Generators Switchgears</th>
<th>SPRePOWER MV-M6 G</th>
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<table>
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<tr>
<th>Switchgears for Distribution Substations up to 40.5 kV</th>
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<th>Switchgears for Distribution Substations up to 24 kV</th>
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<td>SPRePOWER MV-M9</td>
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<td>SPRePOWER MV-M13</td>
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<th>Compact Switchgears up to 24 kV</th>
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<td>SPRePOWER MV-ECOS-C</td>
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<th>Traction Power Switchgears</th>
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<tr>
<td>Description</td>
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<tr>
<td>RATIEST CURRENT</td>
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**Notes:**
- switchgears for distribution substations up to 40.5 kV
- compact switchgears up to 24 kV
- traction power switchgears 7.2 kV to 12 kV to 24 kV
- 15 kV to 36 kV to 40.5 kV
GENERAL FEATURES

- Metal-enclosed
- Partition class PM
- Compartmentalisation:
  - Busbar compartment
  - Circuit breaker compartment
  - Cable compartment
  - Low voltage compartment
- Degree of protection:
  - Enclosure and LV compartment IP 4x
  - Partitioning IP 2x
- Pressure release conduct

SPREPOWER MV-M6-G

Air-insulated, single busbar or duplex:

- Loss of service continuity category
  - Withdrawable switching devices LSC 2B
- Internal arc classification IAC AFLR up to 72 kA/0.1 s or 63 kA/0.5 s
- Compact design for high currents

SPREPOWER MV-M12

Air-insulated, single busbar:

- Withdrawable design
- Loss of service continuity category
  - Withdrawable switching devices LSC 2B
- Internal arc classification IAC AFLR up to 72 kA/0.3 s

SPREPOWER MV-M17

Air-insulated, single busbar:

- Withdrawable design with motor drive
- Loss of service continuity category
  - Withdrawable switching devices LSC 2B
- Compact design for high currents
- Good accessibility for all components
## RATED VALUES & DIMENSIONS

<table>
<thead>
<tr>
<th>Type / Voltage</th>
<th>Current / Busbar</th>
<th>Current / Feeders</th>
<th>Short-time Current</th>
<th>Peak Withstand Current</th>
<th>Power-Frequency Withstand Voltage</th>
<th>Lightning Impulse Voltage</th>
<th>Height (mm)</th>
<th>Width (mm)</th>
<th>Depth (mm)</th>
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<td>2200</td>
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</table>

*Other values and dimensions on request*
GENERAL FEATURES

• Metal-enclosed
• Withdrawable, vacuum-insulated power contactors
• Compartmentalisation:
  • Busbar compartment
  • Circuit breaker compartment
  • Cable compartment
  • Low voltage compartment
• Loss of service continuity category LSC 2B
• Internal arc classification IAC AFLR up to 31.5 kA/1 s
• Degree of protection:
  • Enclosure and LV compartment IP 4x
  • Partitioning IP 2x
• Cable basement/double basement metal-clad
• Easy dismantling between circuit breaker and cable compartment for cable installation
• Circuit breaker and earthing switches with optional electromotive withdrawable design

SPREPOWER MV-M11
Air-insulated, single busbar or Duplex:
• Partition class PM

SPREPOWER MV-M16
Air-insulated, single busbar:
• Very compact construction for 36 kV
• Partition class PI
• Access to cable from backside
• High cable compartment
• Optional withdrawable voltage transformer
### RATED VALUES & DIMENSIONS

<table>
<thead>
<tr>
<th>Type / Voltage</th>
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<th>Current / Feeders</th>
<th>Short-time Current</th>
<th>Peak Withstand Current</th>
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<th>Lightning Impulse Voltage</th>
<th>Height (mm)</th>
<th>Width (mm)</th>
<th>Depth (mm)</th>
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<td>M16 / 36 kV</td>
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<td>2500</td>
<td>1000</td>
<td>2300</td>
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Other values and dimensions on request
GENERAL FEATURES

- Metal-enclosed
- Partition class PM
- Degree of protection:
  - Enclosure and LV compartment IP 4x

SPREPOWER MV-M9

Air-insulated, single busbar or Duplex:

- Fixed-mounted switching devices
- Compartmentalisation:
  - Busbar compartment
  - Tee-off compartment
  - Low voltage compartment
- Loss of service continuity category
  - Fixed-mounted devices LSC 2A
- Internal arc classification IAC AFLR up to 31.5 kA/1 s
- Degree of protection:
  - Partitioning IP 3x
SPREPOWER MV-M13

Air-insulated, single busbar:

- Very compact construction
- Fixed-mounted or withdrawable switching devices
- Compartmentalisation:
  - Busbar compartment
  - Circuit breaker compartment
  - Cable compartment
  - Low voltage compartment
- Loss of service continuity category:
  - Fixed mounting LSC 2A
  - Withdrawable-unit design LSC 2B
- Internal arc classification: IAC AFLR up to 31.5 kA/1 s
- Partition class: PM (12 kV), PI (17.5 kV)
- Degree of protection:
  - Partitioning IP 2x
- Type-tested pressure release duct (optional)
SPREPOWER MV-M18

Air-insulated, single busbar:
- Very compact construction
- Access to the cable compartment through a back door
- Metal-enclosed
- Fixed-mounted or withdrawable switching devices
- Compartmentalisation:
  - Busbar compartment
  - Circuit breaker compartment
  - Cable compartment
  - Low voltage compartment
- Loss of service continuity category:
  - Fixed mounting LSC 2A
  - Withdrawable-unit design LSC 2B
- Internal arc classification: IAC AFLR up to 40 kA/1 s
- Partition class: PM
- Degree of protection:
  - Partitioning IP 2x
- Type-tested pressure release duct (optional)
SPREPOWER MV-M6

Air-insulated, single busbar or Duplex:

- Metal-enclosed
- Withdrawable switching devices
- Compartmentalisation:
  - Busbar compartment
  - Circuit breaker compartment
  - Cable compartment
  - Transformer compartment (duplex)
  - Low voltage compartment
- Loss of service continuity category
- Withdrawable design LSC 2B
- Internal arc classification: IAC AFLR up to 63 kA/1 s
- Degree of protection
- Partitioning IP 2x
SPREPOWER MV-M6 DSS

Air-insulated, double busbar:

• Metal-enclosed
• Fixed-mounted or withdrawable switching devices
• Compartmentalisation fixed mounting:
  • 2 busbar compartments
  • 2 bus disconnector compartments (option)
  • 1 tee-off compartment
  • 1 low voltage compartment
• Compartmentalisation withdrawable-unit design:
  • 2 busbar compartments
  • 2 bus disconnector compartments (option)
  • 1 circuit breaker compartment
  • 1 cable compartment
  • 1 low voltage compartment
• Loss of service continuity category:
  • Fixed mounting LSC 2A
  • Withdrawable-unit design LSC 2B
• Internal arc classification IAC AFLR up to 40 kA/1 s
• Degree of protection:
  • Partitioning IP 2x
### RATED VALUES & DIMENSIONS

<table>
<thead>
<tr>
<th>Type / Voltage</th>
<th>Current / Busbar</th>
<th>Current / Feeders</th>
<th>Short-time Current</th>
<th>Peak Withstand Current</th>
<th>Power-Frequency Withstand Voltage</th>
<th>Lightning Impulse Voltage</th>
<th>Height (mm)</th>
<th>Width (mm)</th>
<th>Depth (mm)</th>
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<td>1000</td>
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<td>1750</td>
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<td>75 kV</td>
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<td>95 kV</td>
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<td>1750 / 2100</td>
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Other values and dimensions on request.
COMPACT SWITCHGEARS
UP TO 24 kV, AIR-INSULATED

SPREPOWER MV-M19
Air-insulated, single busbar:

- Compact RMU-panel with 2 compartments
- Loss of service continuity category:
  - Fixed mounting LSC 2A
- Internal arc classification: IAC AFLR up to 20 kA/1 s
- Partition class: PM
- Disconnector and fuse-load-break disconnectors in fix installed design
- Load-break disconnector can be motor-operated
- For switchgear rooms with open cable routing
- Height-adjustable base frame
- Make proof earthing switches
- Internal arc absorber for personnel and building safety
- Discharge of gases up- or downwards
- Installation on the wall possible
- Access to all components from frontside
## RATED VALUES & DIMENSIONS

<table>
<thead>
<tr>
<th>Type / Voltage</th>
<th>Current / Busbar</th>
<th>Current / Feeders</th>
<th>Short-time Current</th>
<th>Peak Withstand Current</th>
<th>Power-Frequency Withstand Voltage</th>
<th>Lightning Impulse Voltage</th>
<th>Height (mm)</th>
<th>Depth (mm)</th>
<th>Width (mm)</th>
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<td>1350 / 1930</td>
<td>540 / 640</td>
<td>780 / 860</td>
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*Other values and dimensions on request*
GENERAL FEATURES OF FLUID-INSULATED SWITCHGEARS

- Single busbar
- Most compact design
- Metal-enclosed
- Internal arc classification: IAC AFLR up to 20 kA/1 s (cable compartment)
- Loss of service continuity category LS 630 A, 20 kA-3s or 16 kA-1s
- Single pole metal encapsulated, no 3-phase fault
- High personnel safety – earthing via power switches
- Unlimited mounting height
- Staggered cones ensure as simple plug-in cable connection
- Circuit breaker for safe cable protection, overhead line protection & intelligent selective transformer protection
- Type-tested according to EN 62271-200

SPREPOWER MV-ECOS-C
ENVIRONMENTALLY FRIENDLY, SECURE & MORE COMPACT THAN AIR-INSULATED SWITCHGEARS

- SF6-free via environmentally friendly fluid-isolation MIDEL 7131
- Advantages compared to mineral oil, SF6 and solids:
  - Biodegradable
  - Self-extinguishing
  - Low smoke generation
  - Non-toxic
  - High fire point
  - High humidity tolerance
  - High thermal stability
- Suitable for increased environmental safety requirements
  - In tunnels (SF6 behaviour in case of fire)
  - In water protection zones
  - In fire protection zones
  - In flood-prone zones
TECHNICAL DATA

RATED VALUES SPREPOWER MV-ECOS-C

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Current / Busbar</th>
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<tbody>
<tr>
<td>24 kV</td>
<td>...630 A</td>
<td>...630 A</td>
<td>...20 kA</td>
<td>...50 kA</td>
<td>50 kV</td>
<td>125 kV</td>
</tr>
</tbody>
</table>

DIMENSIONS SPREPOWER MV-ECOS-C

<table>
<thead>
<tr>
<th>Bays</th>
<th>Width (mm)</th>
<th>Height (mm)</th>
<th>Depth (mm)</th>
<th>Control Box Height (mm)</th>
<th>Control Box Depth (mm)</th>
<th>Total Height (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>650</td>
<td>1400</td>
<td>1040</td>
<td>500</td>
<td>398</td>
<td>1900</td>
</tr>
<tr>
<td>3</td>
<td>890</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>1130</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>1370</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>1610</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>1850</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Other values and dimensions on request

EXAMPLE – USE IN TRANSFORMER STATION

- Factory-built transformer stations according to EN 62271-202, in concrete execution, incombustible according to REI 90
- Compact design perfectly suitable for accessible and non-accessible transformer stations
- Easy transport and handling
- Versions for slope integration, extension to in-situ concrete and outwardly cable entry “backpack” available
SPREPOWER MV-M7

Air-insulated, single busbar:

- Metal-enclosed
- Withdrawable switching device
- Bay-related testing (AGP)
- Compartmentalisation:
  - Busbar compartment
  - Circuit breaker compartment
  - Cable compartment
  - Low voltage compartment
- Internal arc classification: IAC AFLR 40 kA/0.5s
- Partition class PM
- Loss of service continuity category LSC 2B / PM
- Degree of protection:
  - Enclosure and LV compartment IP 4x
  - Partitioning IP 2x
### RATED VALUES & DIMENSIONS

<table>
<thead>
<tr>
<th>Type / Voltage</th>
<th>Current / Busbar</th>
<th>Current / Feeders</th>
<th>Short-time Current</th>
<th>Peak Withstand Current</th>
<th>Power-Frequency Withstand Voltage</th>
<th>Lightning Impulse Voltage</th>
<th>Height (mm)</th>
<th>Width (mm)</th>
<th>Depth (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>M7 / 17.5 kV</td>
<td>...2552 A</td>
<td>...2419 A</td>
<td>40 kA</td>
<td>100 kA</td>
<td>50 kV</td>
<td>125 kV</td>
<td>2250</td>
<td>800 / 1000</td>
<td>2000</td>
</tr>
</tbody>
</table>

*Other values and dimensions on request*
HEADQUARTERS

Sprecher Automation GmbH
Franckstrasse 51
4018 Linz
Austria
T: +43 732 6908-0
F: +43 732 6908-278
info@sprecher-automation.com

LOCATIONS

AUSTRIA
Sprecher Automation GmbH
(Linz, Wien)

GERMANY
Sprecher Automation Deutschland GmbH
(Berlin, Erfurt, Dortmund, München)

THE NETHERLANDS
Sprecher Automation Nederland B.V.
(Oud Gastel)

POLAND
Sprecher Automation Polska Sp z o.o.
(Łódź, Świdnica)

SLOVAKIA
Sprecher Automation spol. s r.o.
(Bratislava)

SWITZERLAND
Sprecher Automation Schweiz AG
(Aarau)

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