SIEMENS

System cubicles
SIVACON 8MF1

As versatile as your requirements
siemens.com/sivacon-8mf

Equipped for all **applications**

In today's industrial environment, the main prerequisite for high-performance control cabinets and power distribution boards is maximum flexibility with minimum space requirements. As a result, the smart utilization of production space is also increasingly important. Machinery and peripherals are designed to save space – and the same applies to control cabinets. Control cabinet builders must be able to respond to their customers' demands for efficiency flexibly and with short delivery periods.

Simplified, tool-supported configuration, planning, and implementation provide them with additional competitive advantages.

The **SIVACON 8MF1 system cubicles** were rigorously designed to meet the increased demands placed on control cabinet construction. The modular system enables customized, efficient solutions for virtually all industries and applications and supports the individual creation of added value in control cabinet construction.

Customized **solutions**

While the standard portfolio is the starting point for your totally customized cabinet solution, specific modifications are possible for all cubicle types.

Screwed frames and flexibly combinable individual elements make SIVACON 8MF1 the ideal solution in control cabinet construction. Whether fully assembled, adapted according to your specifications, or entirely customized, this modular system is perfect for every solution.

Flexibly combined

The control cabinet you want can be assembled in just a few steps. The basis for the diversified modular system is the frame, available in 90 standard sizes and combinable with more than 2,000 elements. The flexible SIVACON 8MF1 system cubicle can be ordered for self-assembly or pre-assembled.

Modified to meet any requirement

At your request, we can modify our standard portfolio according to your exact specifications. We offer paint finishes in special or functional colors, customized cutouts, galvanized enclosures, enclosures in special sizes, and elements with a particular sheet metal thickness. You can continue processing your cubicle as soon as it's delivered, which saves valuable time for machining and painting.

Customized development

We work with you to develop specific enclosures that comply precisely with your requirements: for example, customized dimensions, individual sheet metal fittings, or specific approvals. You'll benefit from our experience in mechanical panel design and processing while saving on development and assembly effort.

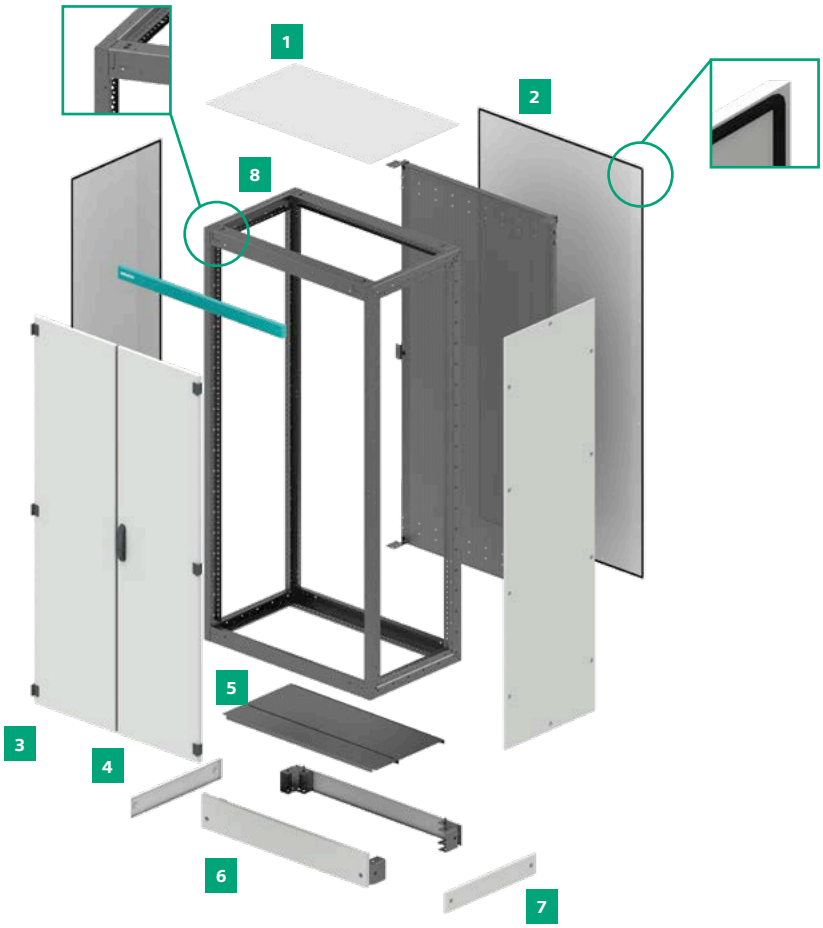
Just-in-time delivery

All system cubicles are delivered promptly and can be coordinated with your production cycle either fully assembled or as individual components on request. This applies to standard models as well as custom models and models with customized finishes. You'll benefit from stock keeping costs, reduced capital commitment, and shorter lead times.

When delivered as a flat pack, the 8MF1 system cubicle saves space, both during transportation, particularly on long distance (e.g. overseas), as well as in the warehouse. The enclosure can be assembled quickly and easily.

One system – **multiple combinations**

Benefit from the diversified modular system of SIVACON 8MF system cubicles for your projects. The comprehensive selection of various single parts allows you to meet each and every requirement.



SIVACON 8MR system air-conditioning ensures problem-free operation of electrical and electronic devices installed in the cabinet, even under harsh ambient conditions. Among other things, it prevents the buildup of condensation and frost and protects against the malfunctions that might result.
The portfolio ranges from filter fans, cooling devices, and heaters to thermostats. In operating rooms, due to natural convection ventilated system cubicles can be used alternatively to air conditioning.

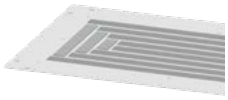
The different versions of SIVACON 8MF/8MR system lighting offer optimal lighting conditions for installation and maintenance. The LED technology saves energy and prevents the need for maintenance.

1. Roof versions

closed, IP40
closed, IP55
EMC, IP40

ventilated, IP40

ventilated, IP20



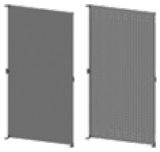
roof trough, IPX1

Accessories

transport eyebolts

2. Mounting panels

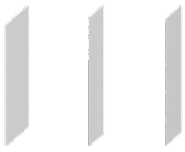
rear with/without perforations



side with/without perforations

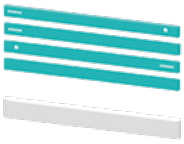
Side / rear panels

closed, IP4
closed, IP55
EMC, IP40
flat, IP40



Trim strips

at the top with / without logo and cutouts at the bottom assembly without plinth



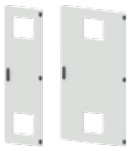
transport brackets

3. Doors (with right-hand or left-hand hinge, for front and back mounting)

closed, IP55

ventilated, IP20

with cutout for filter fan



ventilated, IP40

with safety glass insert

Reinforcement

earthquake brackets

4. Door halves (with left-hand hinge, for front and back mounting)

closed, IP55
EMC, IP40

ventilated, IP20

with cutout for filter fans

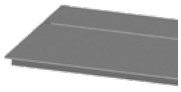
ventilated, IP40

with safety glass insert

corner braces

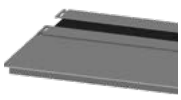
5. Base versions

closed, IP30
closed, IP55
EMC, IP40



with cutout for flange

with cable entry, IPXX



with side cable entry, IPXX

6. Base covers & lateral cover

front door, H: 100 cm

additional rear door, H: 100 cm

front door, H: 200 cm

additional rear door, H: 100 cm

7. Cover

side, H: 100 cm

side, H: 200 cm

8. Frame

galvanized

powder-coated, RAL 7035

Perfect for any **application**

Each industry has specific requirements for electrical infrastructure and the corresponding systems and components. This often involves specifications or approvals for additional applications. The SIVACON 8MF1 system cubicle enclosures comply with all established regulations and standards.

Reliable use

The frame with a material thickness of 2.5 mm guarantees a high mechanical ruggedness of the cubicle system. Variants are also available for all standard IP degrees of protection: for example, for operation in environments that are dusty or subjected to splashing water.

A variety of special certifications are also available:

- Earthquake-prepared enclosures in accordance with IEC 60068-2-6, IEC 60980w, IEC 60068-2-57 and IBC 2012
- Electromagnetic compatibility (EMC) with enclosures made of one-side powder-coated sheet steel and completely covered single parts

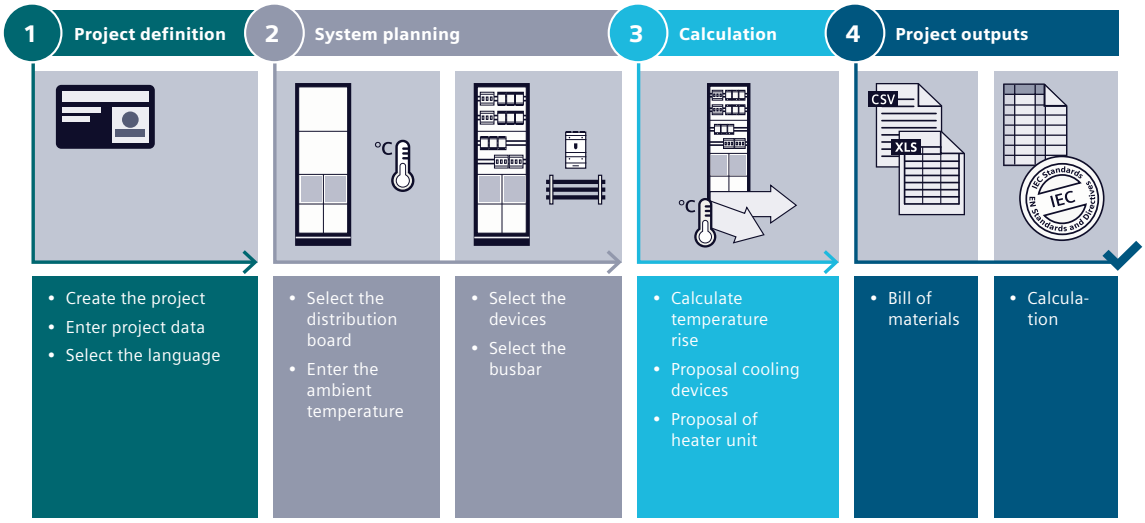
Conforms to standards, yet customizable

System cubicles with special approvals can also be developed individually: for example, cubicles with special or functional paint finishes, seawater-resistant system cubicles, enclosures with multilayer finishes for higher corrosion protection, galvanized parts, or a non-standard sheet metal thickness (up to 2.0 mm).
With the SIVACON 8MF1 system cubicles, you can always count on absolute conformity to standards in virtually all branches of industry.

Modified according to industry demands

We offer utilities and network operators further customizations and a two-toned varnishing for the enclosures. We also offer a prefabricated 19" configuration ex factory. Furthermore, special requests can be made to suit OEM requirements regarding mechanical stability, vibration resistance, and corrosion protection, as well as modifications according to customer-specific corporate design guidelines.

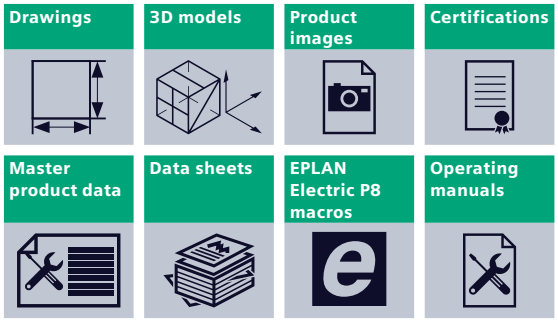
More efficiency **with planning & operation**



Convenient power loss calculation

With the SIMARIS therm software, you can easily and precisely dimension the heat dissipation of your control cubicles by entering the ambient temperature and selecting the relevant devices in the cubicle. The right SIVACON 8MF1 system cubicle can be selected according to the attributes for calculation of the maximum power loss via the software. Requisite devices from the SENTRON, SIRIUS, SIMATIC, SINAMICS, and SITOP portfolios can be integrated with the click of a mouse.
The generated power loss value of the selected devices is calculated according to the actual application (e.g. according to the rated current, coincidence factor, etc.). With just the push of a button, the software generates a calculation result with all relevant data. This result can be used as certification of the relevant standards IEC 61439, IEC 60204-1 or IEC 60890.

siemens.com/simaristherm



Simplified engineering

All the necessary engineering data for all components within the SIVACON 8MF1 is available online in neutral data formats for your CAD or CAE systems – 24/7 and at no charge. In the ePlan Data Portal and CAx download manager, you'll also find ePlan macros for preconfigured system cubicles, including ProPanel data. The ProPanel data supports your automated production processes, saving you valuable engineering time.

siemens.com/lowvoltage/cax

Published by
Siemens AG

Smart Infrastructure
Electrical Products
Humboldtstrasse 59
90459 Nuremberg
Germany

Article no. SIEP-B10324-00-7600