

sicube



System Cubicles
and Cubicle
Air-Conditioning



SIEMENS

Related catalogs

Low-Voltage Controls and Distribution

SIRIUS · SENTRON · SIVACON

Order No.
Catalog
E86060-K1002-A101-A5-7600 LV 1
Technical Information
E86060-T1002-A101-A5-7600 LV 1 T



Industrial Communication

Industrial Communication for Automation and Drives
Order No.:
E86060-K6710-A101-B4-7600

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System Cubicles and Cubicle Air-Conditioning
Order No.
E86060-K1920-A101-A3-7600

LV 50



SIDAC

Reactors and Filters
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SIVACON 8PS

Busway systems
CD, BD01, BD2 to 1250 A
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LV 70



Automation & Drives

The A&D Offline Mall
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CA 01



A&D Mall

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Contents

Systems • Controls: Contactors and contactor assemblies, solid-state switching devices • Protection equipment • Load feeders, motor starters and soft starters • Monitoring and control devices • Detecting devices • Commanding and signaling devices • Transformers • Power supplies • ALPHA FIX terminal blocks • Planning and configuration with SIRIUS • SIVACON busway and cubicle systems • SENTRON switching and protection devices for power distribution: Air circuit-breakers, molded case circuit-breakers, switch disconnectors • Planning, design and management with SIMARIS • BETA modular installation devices

Industrial Ethernet to IEEE 802.3 • PROFINET • Industrial Mobile Communicaton • PROFIBUS to IEC 61158/EN 50170 • SIMATIC ET 200 distributed I/Os • AS-Interface to EN 50295/IEC 61158 • Remote operation with SINAUT ST7 • Routers • ECOFAST system

System Cubicles • Cubicle Modifications • Cubicle Expansion • Accessories • Special Cubicles • Cubicle-Solutions in Practice • Cubicle Air-Conditioning • Special Colors

Commutating reactors for converters • Mains reactors for frequency converters • Iron-core output reactors • Ferrite output reactors • Iron-core smoothing reactors • Smoothing air-core reactors • Filter reactors • Application-specific reactors • Radio interference suppression filters • dv/dt filters • Sinewave filters

Busway systems, Overview • CD system (25 A to 40 A) • BD01 system (40 A to 160 A) • BD2 system (160 A to 1250 A)

All Automation and Drives products,
including those in the catalogs listed above.

All Automation and Drives products,
including those in the catalogs listed above.

SICUBE Hotline

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SICUBE

System Cubicles and Cubicle Air-Conditioning

Catalog LV 50 · 2006

Invalid:
Katalog NV 2 · 2000

The products contained in this catalog are also included in the Offline Mall CA 01
Order No.:
E86060-D4001-A110-C4 (CD-ROM)
E86060-D4001-A510-C4 (DVD)

Contact your local Siemens representative for further information

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SIEMENS

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Delivery times (DT)

- ▶ Preferred type Preferred types are available immediately from stock, i.e. are dispatched within 24 hours.
- A 2 working days Normal quantities of the products are usually delivered within the specified time following receipt of your order at our branch.
- B 1 week
- C 3 weeks
- D 6 week
- X on request In exceptional cases, the actual delivery period may differ from that specified.

The delivery periods apply up to the ramp at Siemens AG (products ready for dispatch). The transport times depend on the destination and type of shipping. The standard transport time for Germany is 1 day.

The delivery times specified here represent the state of 10/2003. They are permanently optimized. Up-to-date information can be found at www.siemens.com/automation/mall.

Price units (PU)

The price unit defines the number of units, sets or meters to which the specified price and weight apply.

Packaging sizes (PS)

The packaging size defines the number, e.g. of units, sets or meters, for outer packaging.
Only the quantity defined by the packaging size or a multiple thereof can be ordered!

Price groups (PG)

Each product is assigned to a price group.

The defined weight in kg refers to the price unit (PU).

Weight

The specified weight in kg refers to the quantity of a price unit.

Dimensions

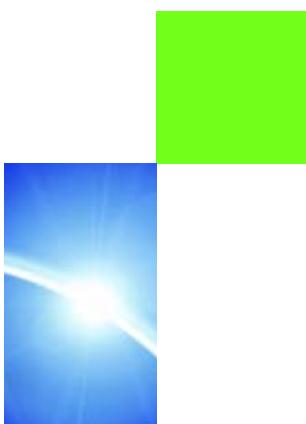
All dimensions in mm.



Introduction



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Welcome to Automation and Drives

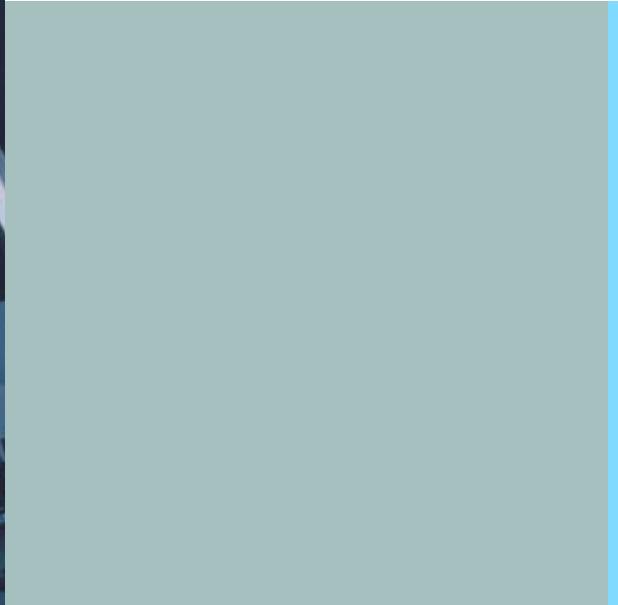


We would like to welcome you to Automation and Drives and our comprehensive range of products, systems, solutions and services for production and process automation and building technology worldwide.

With Totally Integrated Automation and Totally Integrated Power, we deliver solution platforms based on standards that offer you a considerable savings potential.

Discover the world of our technology now. If you need more detailed information, please contact one of your regional Siemens partners.

They will be glad to assist you.

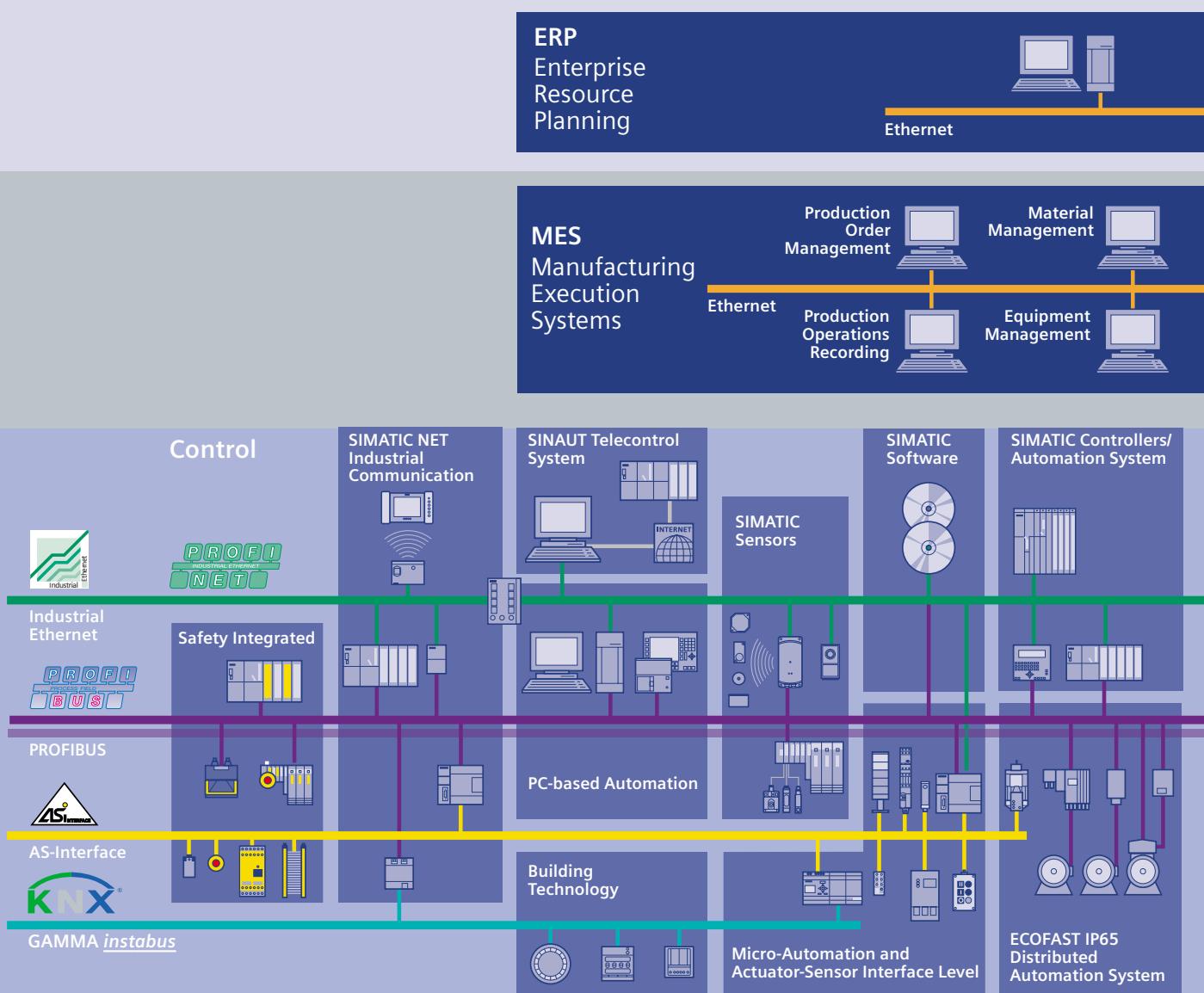


Totally Integrated Automation – innovations for more productivity

With the launch of Totally Integrated Automation, we were the first ones on the market to consistently implement the trend from equipment to an integrated automation solution, and have continuously improved the system ever since.

Whether your industry is process- and production-oriented or a hybrid, Totally Integrated Automation is a unique "common solution" platform that covers all the sectors.

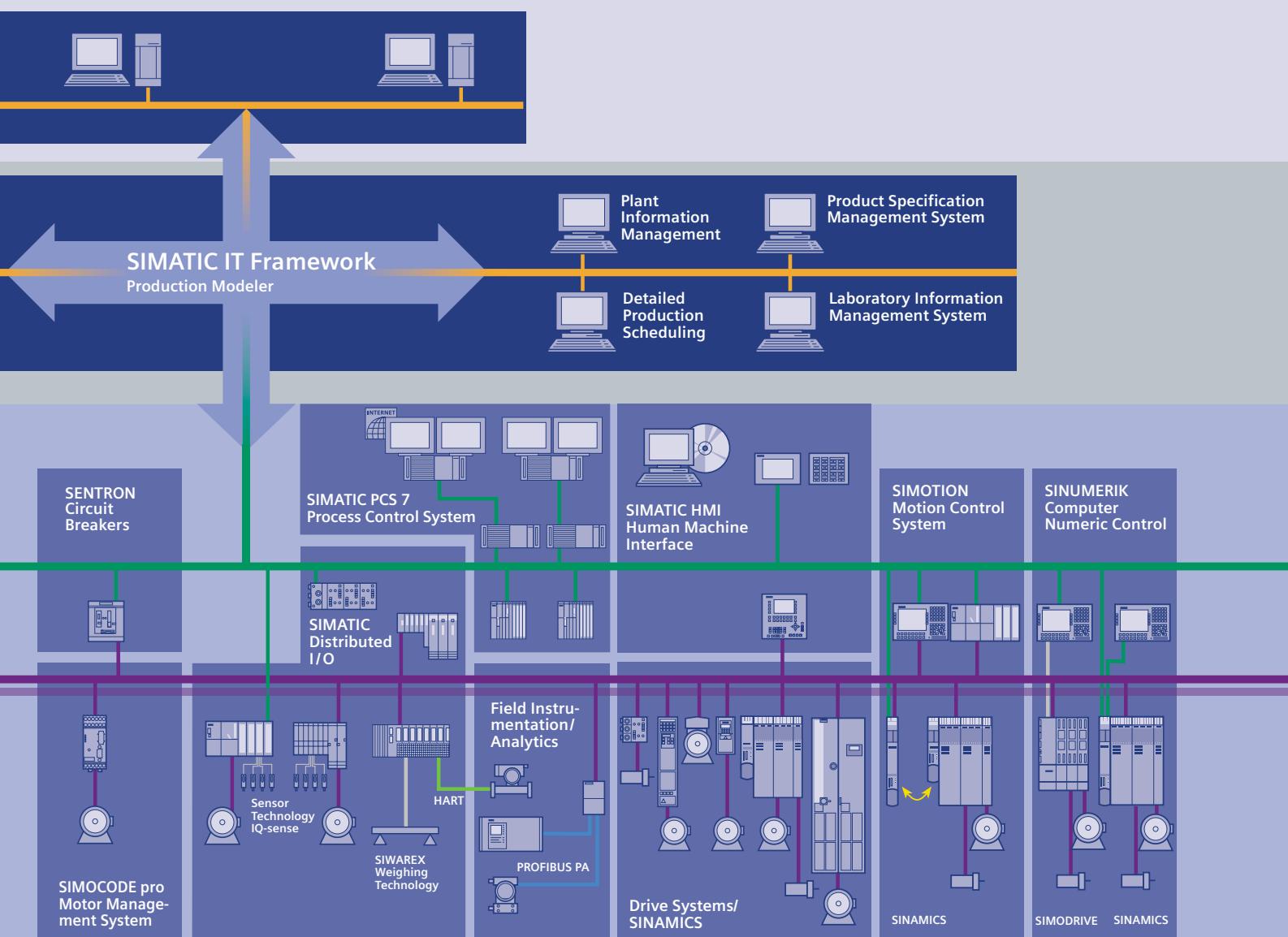
Totally Integrated Automation is an integrated platform for the entire production line - from receiving to technical processing





and production areas to shipping. Thanks to the system-oriented engineering environment, integrated, open communications as well as intelligent diagnostics options, your plant now benefits in every phase of the life cycle.

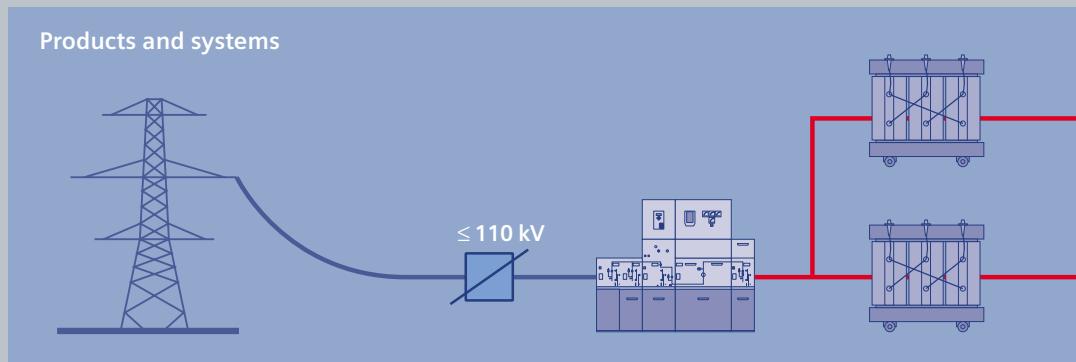
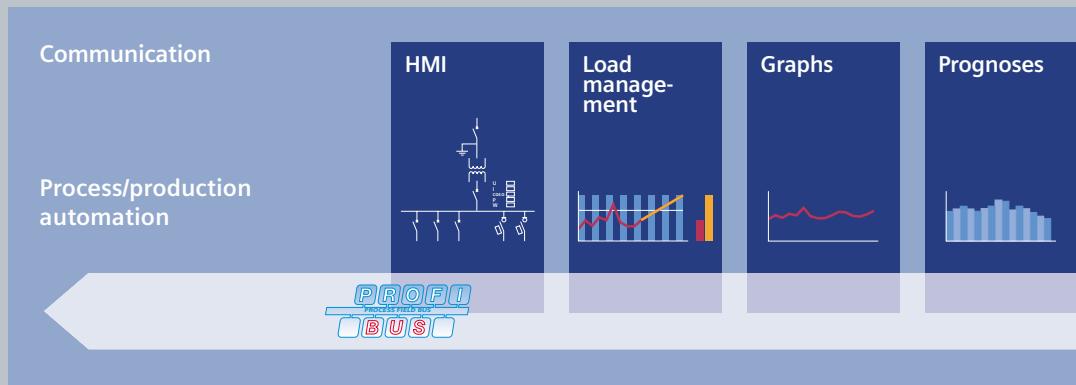
In fact, to this day we are the only company worldwide that can offer a control system based on an integrated platform for both the production and process industry.

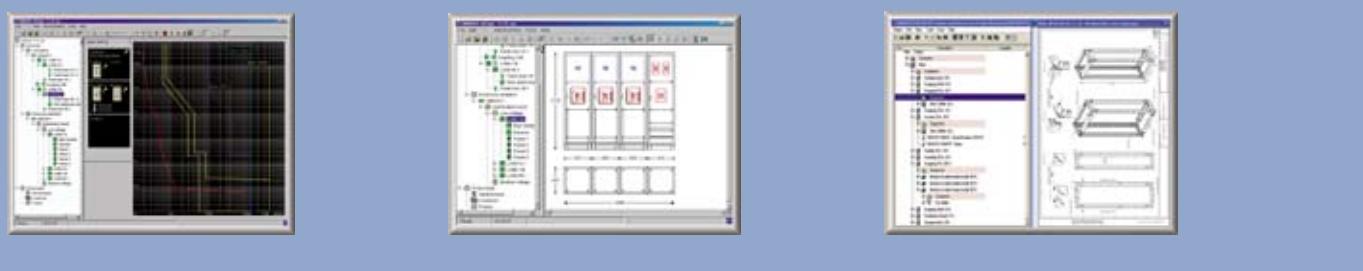
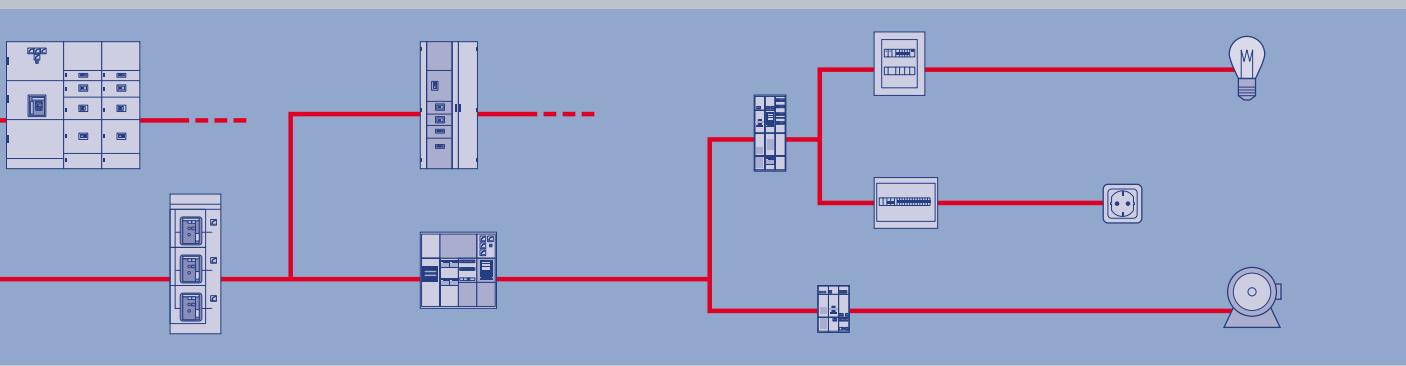
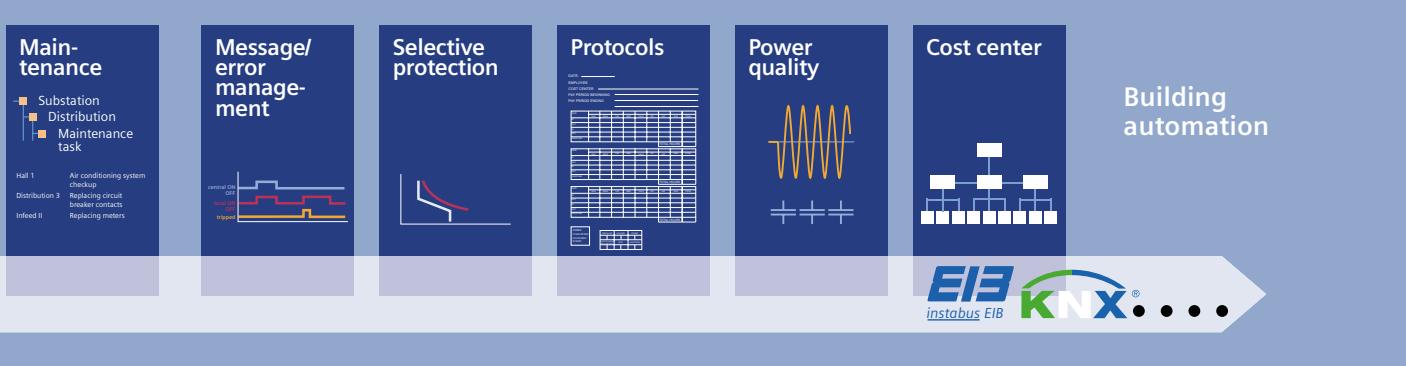
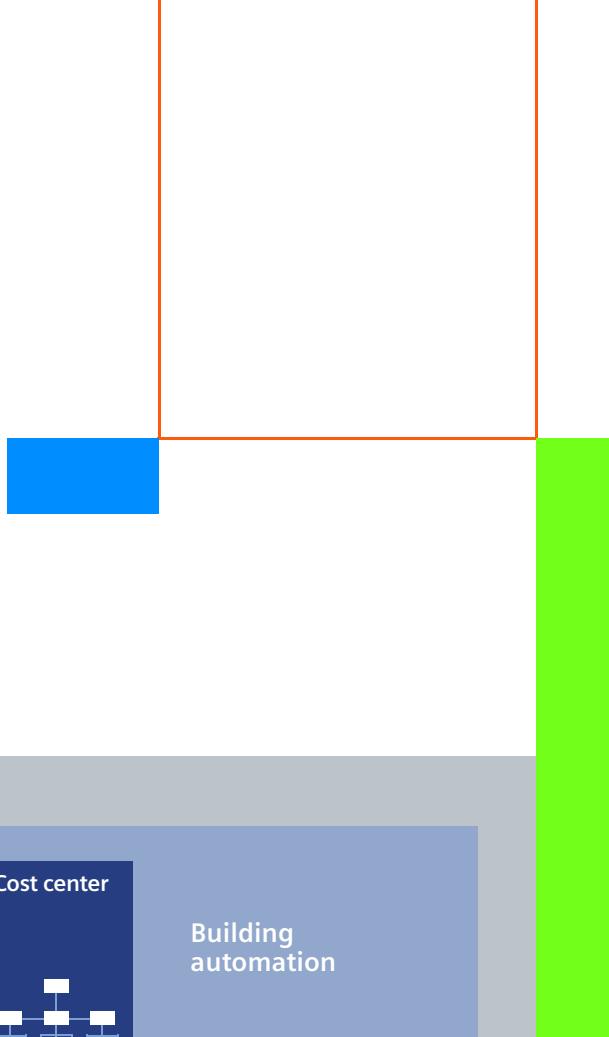


Totally Integrated Power – energy distribution and management from one source

Totally Integrated Power by Siemens offers integrated solutions for energy distribution in functional and industrial buildings covering everything from medium-high voltage to power outlets.

Totally Integrated Power is based on integration in planning and configuration as well as coordinated products and systems. In addition, it features communications and software modules for connecting power distribution systems to industrial automation and building automation, thereby offering a substantial savings potential.





Low-Voltage Controls and Distribution.

The basis for progressive solutions.

Extremely high demands are made on modern low-voltage controls and distribution: users want cost-effective solutions that are easy to integrate in control cabinets, distribution boards and distributed systems and can communicate perfectly with each other.

Siemens has the answer: SIRIUS industrial controls and low-voltage power distribution with SIVACON, SENTRON and SIMARIS.

SIRIUS industrial controls

The SIRIUS range has everything you need for switching, protecting and starting loads. Products for monitoring, control, detection, commanding, signaling and power supply round off the spectrum of industrial controls. Combined with Totally Integrated Automation, Safety Integrated and ECOFAST, our product portfolio can be bundled to create optimized systems. All in all, Siemens provides innovative controls with modern features, such as integrated communication and safety technology that work to your advantage:

The basis for ground-breaking integrated solutions.



*SIRIUS Safety Integrated
product range*



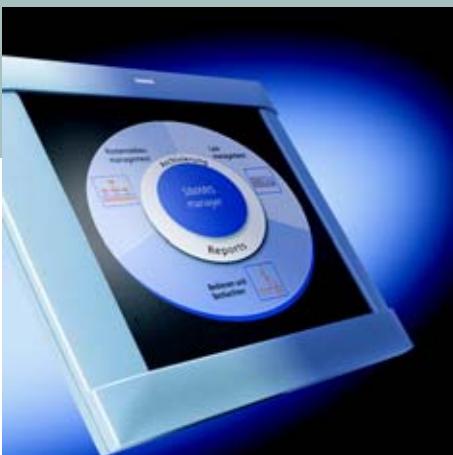
SIRIUS modular system



SIVACON distribution boards



SENTRON switching devices



SIMARIS software range

Low-voltage power distribution with **SIVACON, SENTRON and SIMARIS**

Non-residential buildings and industrial plants have one thing in common: without electricity, everything comes to a halt. The availability, safety and cost effectiveness of the power distribution system is of utmost importance – from the medium voltage supply point through to the socket outlet. And only integrated solutions can ensure maximum efficiency for planning, configuration and operation.

The concept is called **Totally Integrated Power** from Siemens. Total integration in planning and configuration creates synergies and saves costs. Perfectly interacting products and systems provide efficient engineering and reliable operation. In the field of low-voltage power distribution, the following product ranges are available:

SIVACON: From flexible busbar trunking systems through to safe power distribution boards and motor control centers.

SENTRON: From well-proven switch disconnectors through to intelligent circuit-breakers.

SIMARIS: The software range for the planning, design and management of power distribution.

SICUBE - Competence in Service Worldwide

Customer-specific Solutions

You only order what you really need! And precisely that is what will be delivered - no matter whether you have ordered an empty or complete cubicle or fully equipped cubicle groups.

Made to measure

Our cubicles are supplied just the way you choose: Flat-packed or ready-assembled - with base, swing frame and side panels - pre-configured with mounting rails and cable ducts - or as a complete cubicle, if you prefer.

With an appropriate degree of protection

All our cubicles can be ordered in any required degree of protection, e.g. in IP 00, IP 20, IP 23, IP 30, IP 40 or IP 54.

The color sets the tone

Your cubicle will be delivered in any standard RAL color within the standard delivery time of 15 working days, even multicolored and - upon request - even in special colors.



Individual tailoring

Customer-specific cutouts, e.g. for measuring and control devices, ventilation slots, gills or windows, can be realized without extending the usual delivery time.

Corrosion-free

Corrosion protection is one of our priority concerns: The frames and enclosure parts of our cubicles are powder-coated. The frames and cross members are zinkcor-coated, and further surface-treatment measures are possible.

Stability on the move

We deliver our cubicles and cubicle suites on wooden pallets - that simplifies transport and promotes accident prevention by minimizing the risks of tilting.

Heavy Metall

Our system cubicles are suitable for heavy installations up to 1,000 kg.

Earthquake-resistant

In combination with cross braces and special earthquake-strength modifications, the screwed variant of the 8MF cubicles is also suitable for use in the critical areas of nuclear power plants and in regions with an enhanced risk of earthquakes.

Ease of assembly

The frame of the 8MC cubicle possesses plunged mounting holes in a 25 mm grid. Installation parts with grooving screws can be fastened here. There is no need for nuts, washers, lock washers or the like.



Grounding concept for extra safety

The use of self-tapping screws to fix the enclosure parts of the 8MC and 8MF cubicles already ensures that all parts are incorporated into the protective conductor circuit, i.e. no additional grounding measures are required.

In the case of the 8MC cubicle, the installations mounted with such screws are similarly part of this protective conductor circuit.

A further advantage: Our cubicle systems require only one grounding strap per door wing, and this is already installed at the factory.



Benefits also for the environment

With all these advantages, we always keep a close eye on environmental protection. For example, we use only environment-friendly paints which are solvent-free, lead-free and free of heavy metals.

It similarly goes almost without saying that we ensure proper filtering of the exhaust air from our welding processes, and that we have also installed powder recovery systems in our coating areas.

With the packaging, too, we reduce the use of materials to a minimum.

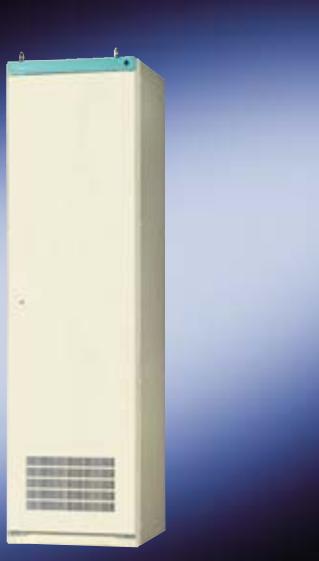
Proven in worldwide use

Our system cubicles are delivered worldwide with customer-configured installations, or else completed by the customers themselves to meet the specific demands of individual applications, e.g. for medical equipment or traffic systems.



2

System Cubicles



2/2	Degrees of Protection
2/3	Cubicles Without Ventilation
2/11	Cubicles With Ventilation
2/14	Cubicle Interconnection



System Cubicles

Degrees of Protection

2

Overview

Cubicles are installed in the most varied environments, from office buildings to workshops and manufacturing centers.

SICUBE system cubicles are designed for all these environments. In their standard versions, they offer the following degrees of protection:

- System cubicles without ventilation: IP40 and IP54

- System cubicles with ventilation: IP30 and IP40

If you require other degrees of protection to those offered by the standard cubicles versions, simply give us a call.

We are able to supply cubicles with all the degrees of protection indicated in blue in the table below.

First characteristic numeral	Degree of protection (protection against contact and foreign objects)		Second characteristic numeral	Degree of protection (protection against water)		
	Description	Definition		Description	Definition	
0	No protection	No particular protection for persons against accidental contact with live or moving parts.	0	No protection	No particular protection	
		No protection of the equipment against the penetration of solid foreign objects.	1	Protection against vertically falling water drops	Vertically falling water drops must have no harmful effects.	
1	Protection against solid foreign objects > 50 mm	Protection against accidental broad contact with live or internal moving parts, e.g. with the hand, but no protection against deliberate access to these parts.	2	Protection against water drops falling at an angle	Falling water drops must have no harmful effects at any angle up to 15° from the vertical.	
		Protection against the penetration of solid foreign objects with a diameter greater than 50 mm.	3	Protection against spraying water	Water spraying at any angle up to 60° from the vertical must have no harmful effects.	
2	Protection against solid foreign objects > 12 mm	Protection against finger contact with live or internal moving parts.	4	Protection against splashing water	Water splashing against the equipment must have no harmful effects, irrespective of its direction.	
		Protection against the penetration of solid foreign objects with a diameter greater than 2.5 mm.	5	Protection against water jets	Water directed at the equipment from a nozzle must have no harmful effects, irrespective of its direction.	
3	Protection against solid foreign objects > 2.5 mm	Protection against contact with live or internal moving parts with tools, wires or the like with a thickness greater than 1 mm.	6	Protection against flooding	Water must have no harmful effects in case of temporary flooding.	
		Protection against the penetration of solid foreign objects with a diameter greater than 2.5 mm.	7	Protection against immersion	Water must not ingress to such an extent that it causes harmful effects when the equipment is immersed in water in accordance with the defined pressure and time conditions.	
4	Protection against solid foreign objects > 1 mm	Protection against contact with live or internal moving parts with tools, wires or the like with a thickness greater than 2.5 mm.	8	Protection against submersion	Water must not ingress to such an extent that it causes harmful effects when the equipment is immersed in water in accordance with the defined pressure conditions but for an unspecified time.	
		Protection against the penetration of solid foreign objects with a diameter greater than 1 mm.				
5	Dust-protected	Full protection against contact with live or internal moving parts. Protection against harmful dust deposits. The ingress of dust is not fully prevented, but dust may not enter to such an extent that the functioning of the device is impaired.	Example for specification of a degree of protection:		Code letters First numeral Second numeral	
6	Dust-tight	Full protection against contact with live or internal moving parts. No ingress of dust.			IP 4 0	

Cubicles Without Ventilation

Overview**8MC System cubicle**Design

The 8MC2 system cubicle cuts a good figure wherever it stands:

- Doors over the full height and width of the cubicle, together with side panels integrated into the frame, lend the system cubicle an attractive appearance - the ideal choice for applications in office, industrial and craft trade environments.
- External hinges permit wide opening of the system cubicle doors - in line with individual requirements. Optional trim strips along the top edges of the doors support a uniform design and also offer space for lettering.

Available dimensions

The 8MC2 system cubicles are available in dimension increments of 100 mm, within the following minimum and maximum dimension range:

- Heights from 400 mm to 2400 mm
- Widths from 300 mm to 1800 mm
- Depths from 300 mm to 1400 mm

All variants are freely combinable, provided the sum of height and depth amounts to at least 1000 mm. The standard dimensions are indicated in the tables of selection and ordering data.

Modifications and accessories

The standard versions of the system cubicles can naturally also be fitted with other doors or ventilated roof panels, for example, (see "Cubicle Modifications") and can be configured with individual bases, side panels, transport aids, interior installations, shelves, etc. (see "Cubicle Expansion" and "Accessories").

Ventilation

(See "Cubicles With Ventilation").

Transport

Cubicles are dispatched ex works on transport skids, or in the case of cubicle suites on transport bases

**8MF System cubicle**Design

The 8MF2 system cubicle is a further optimized version of the standard 8MF cubicle. The welded 8MF2 version is the proven system where ultimate demands are placed on stability and quality.

The doors bring a floor clearance of 63 mm, and with their concealed hinges provide for a 180° opening angle (130° in the case of cubicle suites). The identical side and rear panels add 9 mm to the frame dimensions.

Petrol-blue trim strips above the doors offer space for lettering or for the integration of signaling lights.

Available dimensions

The 8MF2 system cubicle are available in dimension increments of 100 mm, within the following minimum and maximum dimensions:

- Heights from 400 mm to 2400 mm
- Widths from 300 mm to 1800 mm
- Depths from 300 mm to 1400 mm

All variants are freely combinable, provided the sum of height and depth amounts to at least 1000 mm. The standard dimensions are indicated in the tables of selection and ordering data.

Modifications and accessories

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Ventilation

(See "Cubicles With Ventilation").

Transport

Cubicles are dispatched ex works on transport skids, or in the case of cubicle suites on transport bases



System Cubicles

Cubicles Without Ventilation

Application

8MC System cubicle

Flexibility is a central keyword for our 8MC2 cubicle system.

The versatile mounting options permit the fast and inexpensive installation of mechanical components and electrical devices, including all elements belonging to typical metric and/or 19-inch rack systems.

It goes without saying, that the 8MC2 cubicle system complies with all national and international standards referring to metric installation systems (DIN EN 50298, IEC 60917, etc.) and thus complements the SIPAC series (standardized Siemens packaging system) to offer solutions across the whole range from individual modules to subracks and cubicles.

8MC2 is the ideal cubicle system for the craft trades and industry, being suitable not only for small conventional control systems, but also for full-scale electrical installations.

The 8MC cubicle system is used in the following applications:

- Open- and closed-loop control technology
- Electronics (19-inch installations)
- Power electronics
- Switchgear and controlgear
- Data systems
- Communications technology
- Medical systems

8MF System cubicle

The 8MF cubicle system is suitable for the installation of devices and equipment for electronic and conventional open-and closed-loop control systems, as well as for low-voltage switchgear.

Its design permits the fast and cost-effective integration of racks for 19-inch installations for the most varied industrial electronics applications, alongside distribution modules for power distribution.

Specific design measures permit 8MF6 cubicles in the dimensions (H x W) 2200 x 900 mm and 2200 x 600 mm to be supplied in earthquake-resistant versions for use in nuclear power stations (see Earthquake-Resistant Cubicles)

The 8MF5, 8MF6 and 8MF2 system cubicle series possess absolutely identical hole patterns in their frame profiles and are thus suitable for interconnection without restrictions.

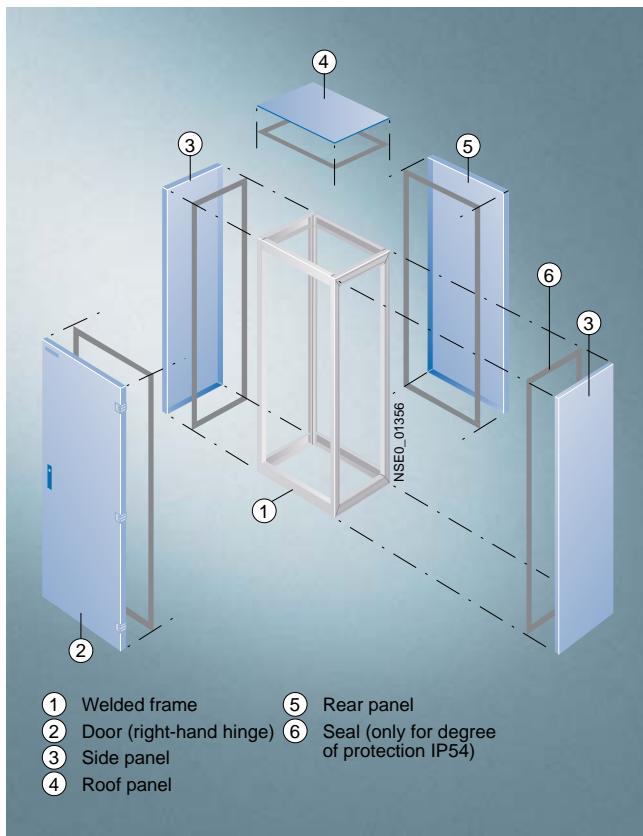
The strength to withstand earthquakes, however, can only be assumed if the installed devices and their form of installation also comply with the relevant demands.

The 8MF2 and 8MF5/6 cubicle systems are used in the following applications:

- Protection and control systems
- Open- and closed-loop control technology
- Electronics (19-inch installations)
- Automobile industry
- Remote control of crane systems
- Cement and paper industries
- Traffic engineering

Design

8MC System cubicle, welded



Frame and doors

The overall frame of the 8MC2 is a welded construction comprising two side frame sections and four cross members. The profile of the side frames has been folded 11 times.

The doors cover the full height of the cubicle, with a floor clearance of 52.5 mm.

Through changes to the door closing, and in particular the hinges, and with a galvanized rear panel, it has been possible to develop an even more favorably priced variant.

Mounting

The 8MC2 offers numerous mounting planes. The hole spacing is 25 mm in accordance with DIN 50298 and IEC 60917.

Two forms of mounting are possible:

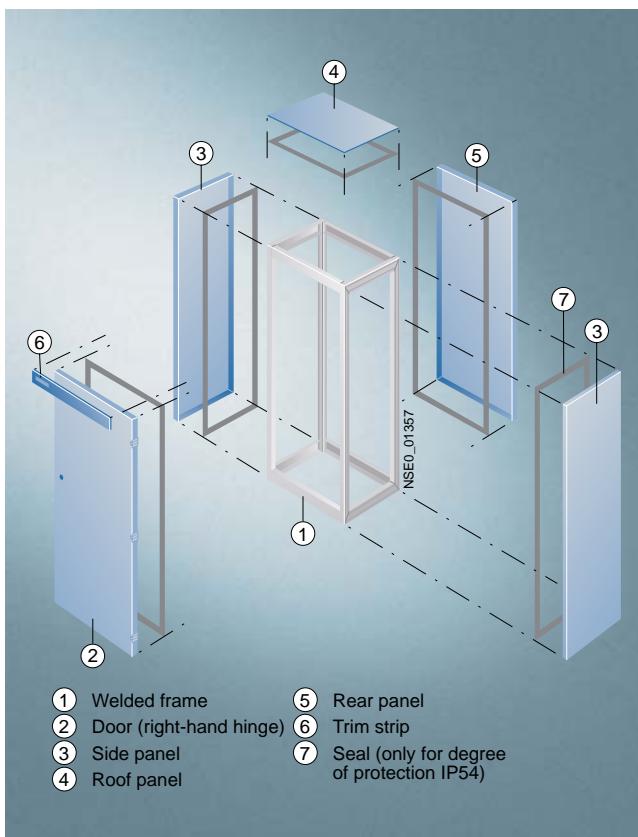
- with captive nuts
- with self-tapping screws

If self-tapping screws are used, the thread is grooved into a plunged hole in the frame - without metallic shavings. The screws possess a self-retaining torque, which prevents independent loosening. Spring washers and washers are not necessary.

The screws - where appropriate with contact washers or cutting rings - establish reliable contact to the frame. The result: The system cubicle is fully integrated into the protective conductor circuit.

Cubicles Without Ventilation

8MF2 System cubicle, welded

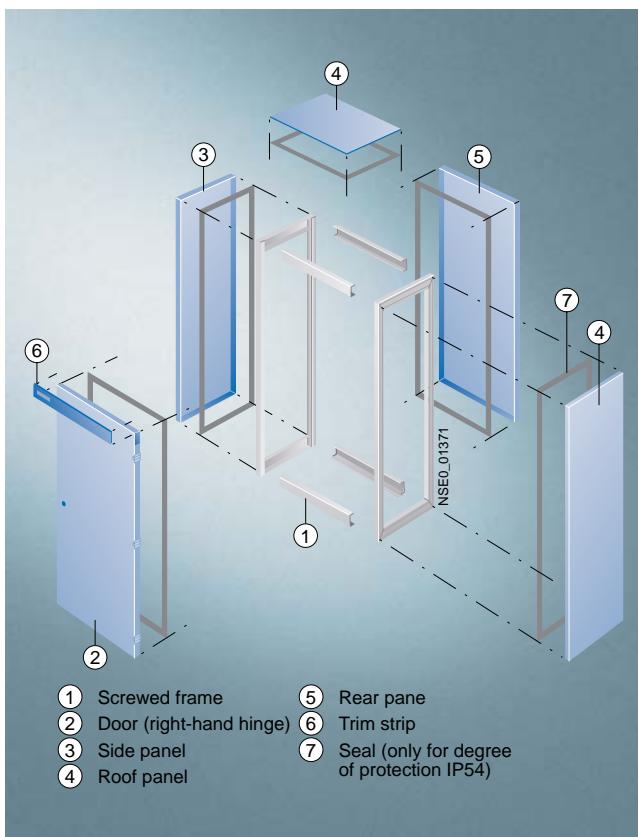


In all versions of the 8MF system cubicle, the profile of the side frames has been folded 5 times. It provides two rows of holes (\varnothing 9.2 mm) at a spacing of 20 mm for the mounting of expansions and accessories.

As the enclosure parts are mounted with self-tapping screws, no separate grounding measures are necessary. For the interior installations, special studs and contact washers are provided to ensure compliance with the relevant grounding regulations.

The 8MF2 system cubicle offers ultimate stability. The overall frame is a welded construction comprising two side frame sections and four cross members.

8MF5 and 8MF6 System cubicles, screwed



These 8MF cubicles are screwed constructions and are offered as

- flat-packed cubicles as 8MF5 and as
- ready-assembled cubicles as 8MF6

The overall frame comprises two angle-welded side frame sections and four identical top/base cross members.

No special fixtures or gauges are required for assembly, meaning that users can simply assemble the cubicles themselves.

The frame is dimensioned for the full load-bearing capacity of the cubicle.

For fixing to the floor, four holes (\varnothing 14.5 mm) are provided in each bottom brace (see Project CD).

System Cubicles

Cubicles Without Ventilation

Selection and ordering data

Scope of delivery

	8MC2	8MF2	8MF5	8MF6
Standard version				
Frame	Welded, zinkcor- and powder-coated	Welded, zinkcor- and powder-coated	Screwed (unassembled) zinkcor- and powder-coated	Screwed (pre-assembled) zinkcor- and powder-coated
• Side frame profiles	Sheet steel 2 mm	Sheet steel 2.5 mm	Sheet steel 2.5 mm	Sheet steel 2.5 mm
• Cross member profiles	Sheet steel 2.5 mm	Sheet steel 2.5 mm	Sheet steel 4 mm	Sheet steel 4 mm
Enclosure parts				
• Rear panel	Folded, sheet steel 1.5 mm, galvanized	Folded, sheet steel 1.5 mm, powder-coated		
• Side panels (for stand-alone cubicles only)	Folded, sheet steel 1.5 mm, powder-coated			
• Door	Sheet steel 1.5 mm, powder-coated, front door (right-hand hinges) or double-wing doors from width 1000 mm, espagnolette lock with double-bit key (DIN 43668), lock insert with ø 3 mm pin, 180° hinges (opening angle approx. 130° for cubicle suites)	Sheet steel 1.5 mm, powder-coated, front door (right-hand hinges) or double-wing doors from width 1200 mm, espagnolette lock with double-bit key (DIN 43668), lock insert with ø 3 mm pin, 180° hinges (opening angle approx. 130° for cubicle suites)		
• Trim strip	-	Petrol-blue		
• Roof panel	Flat, sheet steel 1.5 mm, galvanized			
Paint finish				
	Powder coating, surface with fine structured finish, for indoor installation			
• Cubicle color	RAL 7032 ¹⁾ (other cubicle colors on request)			
• Frame color	RAL 7032		RAL 7022 / RAL 7032	
Degree of protection	IP40/IP54 to EN 60529			

1) The colors RAL 7032 and SN611 (ergogray, Siemens standard) are identical in price.

Order designations for standard versions

8MC2 and 8MF2 cubicles

	8 M C 2	■ ■ ■ ■ ■ ■ ■ ■	-	■ ■ ■ ■ ■ ■ ■ ■
	8 M F 2	■ ■ ■ ■ ■ ■ ■ ■	-	■ ■ ■ ■ ■ ■ ■ ■
Height	1800 mm 2000 mm 2200 mm	8 0 2		
Width	600 mm 800 mm 900 mm 1000 mm 1200 mm	6 8 9 0 2		
Depth	400 mm 600 mm 800 mm	4 6 8		
Degree of protection	IP 40 IP 54		4 5	
Installation	Stand-alone installation with 2 side panels Installation as suite without side panels		E R	

8MF5 and 8MF6 cubicles

	8 M F 5	■ ■ ■ ■ ■ ■ ■ ■	-	■ ■ ■ ■ ■ ■ ■ ■
	8 M F 6	■ ■ ■ ■ ■ ■ ■ ■	-	■ ■ ■ ■ ■ ■ ■ ■
Height	1800 mm 2000 mm 2200 mm	8 0 2		
Width	600 mm 800 mm 900 mm 1200 mm	6 8 9 2		
Depth	400 mm 600 mm 800 mm	4 6 8		
Degree of protection	IP 40 IP 54		4 5	
Installation	Stand-alone installation with 2 side panels Installation as suite without side panels		E R	

System Cubicles

Cubicles Without Ventilation

Ordering data, 8MC2 standard cubicle (welded)

2

Height mm	Width mm	Depth mm	DT	Stand-alone cubicle	Weight per unit, approx.	DT	Suite installa- tion	Weight per unit, approx.	DT	Stand-alone cubicle	Weight per unit, approx.	DT	Suite installa- tion	Weight per unit, approx.
				Order No.	kg		Order No.	kg		Order No.	kg		Order No.	kg
Degree of protection IP40										Degree of protection IP54				
1800	600	400	C	8MC2 864-4E	85.000	C	8MC2 864-4R	85.000	C	8MC2 864-5E	85.000	C	8MC2 864-5R	85.000
		600	C	8MC2 866-4E	90.000	C	8MC2 866-4R	90.000	C	8MC2 866-5E	90.000	C	8MC2 866-5R	90.000
		800	C	8MC2 868-4E	100.000	C	8MC2 868-4R	100.000	C	8MC2 868-5E	100.000	C	8MC2 868-5R	100.000
	800	400	C	8MC2 884-4E	95.000	C	8MC2 884-4R	95.000	C	8MC2 884-5E	95.000	C	8MC2 884-5R	95.000
		600	C	8MC2 886-4E	100.000	C	8MC2 886-4R	100.000	C	8MC2 886-5E	100.000	C	8MC2 886-5R	100.000
		800	C	8MC2 888-4E	110.000	C	8MC2 888-4R	110.000	C	8MC2 888-5E	110.000	C	8MC2 888-5R	110.000
	900	400	C	8MC2 894-4E	100.000	C	8MC2 894-4R	100.000	C	8MC2 894-5E	100.000	C	8MC2 894-5R	100.000
		600	C	8MC2 896-4E	110.000	C	8MC2 896-4R	110.000	C	8MC2 896-5E	110.000	C	8MC2 896-5R	110.000
		800	C	8MC2 898-4E	120.000	C	8MC2 898-4R	120.000	C	8MC2 898-5E	120.000	C	8MC2 898-5R	120.000
2000	1000	400	C	8MC2 804-4E	100.000	C	8MC2 804-4R	100.000	C	8MC2 804-5E	100.000	C	8MC2 804-5R	100.000
		600	C	8MC2 806-4E	110.000	C	8MC2 806-4R	110.000	C	8MC2 806-5E	110.000	C	8MC2 806-5R	110.000
		800	C	8MC2 808-4E	120.000	C	8MC2 808-4R	120.000	C	8MC2 808-5E	120.000	C	8MC2 808-5R	120.000
	1200	400	C	8MC2 824-4E	115.000	C	8MC2 824-4R	115.000	C	8MC2 824-5E	115.000	C	8MC2 824-5R	115.000
		600	C	8MC2 826-4E	125.000	C	8MC2 826-4R	125.000	C	8MC2 826-5E	125.000	C	8MC2 826-5R	125.000
		800	C	8MC2 828-4E	135.000	C	8MC2 828-4R	135.000	C	8MC2 828-5E	135.000	C	8MC2 828-5R	135.000
	800	400	C	8MC2 084-4E	110.000	C	8MC2 084-4R	110.000	C	8MC2 084-5E	110.000	C	8MC2 084-5R	110.000
		600	C	8MC2 086-4E	120.000	C	8MC2 086-4R	120.000	C	8MC2 086-5E	120.000	C	8MC2 086-5R	120.000
		800	C	8MC2 088-4E	165.000	C	8MC2 088-4R	165.000	C	8MC2 088-5E	165.000	C	8MC2 088-5R	165.000
2200	900	400	C	8MC2 094-4E	125.000	C	8MC2 094-4R	125.000	C	8MC2 094-5E	125.000	C	8MC2 094-5R	125.000
		600	C	8MC2 096-4E	135.000	C	8MC2 096-4R	135.000	C	8MC2 096-5E	135.000	C	8MC2 096-5R	135.000
		800	C	8MC2 098-4E	145.000	C	8MC2 098-4R	145.000	C	8MC2 098-5E	145.000	C	8MC2 098-5R	145.000
	1000	400	C	8MC2 004-4E	130.000	C	8MC2 004-4R	130.000	C	8MC2 004-5E	130.000	C	8MC2 004-5R	130.000
		600	C	8MC2 006-4E	145.000	C	8MC2 006-4R	145.000	C	8MC2 006-5E	145.000	C	8MC2 006-5R	145.000
		800	C	8MC2 008-4E	155.000	C	8MC2 008-4R	155.000	C	8MC2 008-5E	155.000	C	8MC2 008-5R	155.000
	1200	400	C	8MC2 024-4E	145.000	C	8MC2 024-4R	145.000	C	8MC2 024-5E	145.000	C	8MC2 024-5R	145.000
		600	C	8MC2 026-4E	155.000	C	8MC2 026-4R	155.000	C	8MC2 026-5E	155.000	C	8MC2 026-5R	155.000
		800	C	8MC2 028-4E	165.000	C	8MC2 028-4R	165.000	C	8MC2 028-5E	165.000	C	8MC2 028-5R	165.000
2200	600	400	C	8MC2 264-4E	130.000	C	8MC2 264-4R	130.000	C	8MC2 264-5E	130.000	C	8MC2 264-5R	130.000
		600	C	8MC2 266-4E	135.000	C	8MC2 266-4R	135.000	C	8MC2 266-5E	135.000	C	8MC2 266-5R	135.000
		800	C	8MC2 268-4E	145.000	C	8MC2 268-4R	145.000	C	8MC2 268-5E	145.000	C	8MC2 268-5R	145.000
	800	400	C	8MC2 284-4E	135.000	C	8MC2 284-4R	135.000	C	8MC2 284-5E	135.000	C	8MC2 284-5R	135.000
		600	C	8MC2 286-4E	145.000	C	8MC2 286-4R	145.000	C	8MC2 286-5E	145.000	C	8MC2 286-5R	145.000
		800	C	8MC2 288-4E	175.000	C	8MC2 288-4R	175.000	C	8MC2 288-5E	175.000	C	8MC2 288-5R	175.000
	900	400	C	8MC2 294-4E	140.000	C	8MC2 294-4R	140.000	C	8MC2 294-5E	140.000	C	8MC2 294-5R	140.000
		600	C	8MC2 296-4E	165.000	C	8MC2 296-4R	165.000	C	8MC2 296-5E	165.000	C	8MC2 296-5R	165.000
		800	C	8MC2 298-4E	175.000	C	8MC2 298-4R	175.000	C	8MC2 298-5E	175.000	C	8MC2 298-5R	175.000
	1000	400	C	8MC2 204-4E	165.000	C	8MC2 204-4R	165.000	C	8MC2 204-5E	165.000	C	8MC2 204-5R	165.000
		600	C	8MC2 206-4E	175.000	C	8MC2 206-4R	175.000	C	8MC2 206-5E	175.000	C	8MC2 206-5R	175.000
		800	C	8MC2 208-4E	185.000	C	8MC2 208-4R	185.000	C	8MC2 208-5E	185.000	C	8MC2 208-5R	185.000
	1200	400	C	8MC2 224-4E	185.000	C	8MC2 224-4R	185.000	C	8MC2 224-5E	185.000	C	8MC2 224-5R	185.000
		600	C	8MC2 226-4E	195.000	C	8MC2 226-4R	195.000	C	8MC2 226-5E	195.000	C	8MC2 226-5R	195.000
		800	C	8MC2 228-4E	210.000	C	8MC2 228-4R	210.000	C	8MC2 228-5E	210.000	C	8MC2 228-5R	210.000

The packaging size for 8MC cubicles is 1 cubicle, i.e. 1 cubicle or a multiple thereof can be ordered.

If a door with left-hand hinges is required, add the suffix "-Z" to the Order No. and "left-hand hinge" to the text.

Special dimensions on request.

System Cubicles

2

Cubicles Without Ventilation

Ordering data, 8MF2 standard cubicle (welded)

Height mm	Width mm	Depth mm	DT Stand-alone cubicle	Weight per unit, approx. kg	DT Suite installa- tion	Weight per unit, approx. kg	DT Stand-alone cubicle	Weight per unit, approx. kg	DT Suite installa- tion	Weight per unit, approx. kg	
Degree of protection IP40											
1800	600	400	C 8MF2 864-4E	85.000	C 8MF2 864-4R	85.000	C 8MF2 864-5E	85.000	C 8MF2 864-5R	85.000	
		600	C 8MF2 866-4E	90.000	C 8MF2 866-4R	90.000	C 8MF2 866-5E	90.000	C 8MF2 866-5R	90.000	
		800	C 8MF2 868-4E	100.000	C 8MF2 868-4R	100.000	C 8MF2 868-5E	100.000	C 8MF2 868-5R	100.000	
	800	400	C 8MF2 884-4E	95.000	C 8MF2 884-4R	95.000	C 8MF2 884-5E	95.000	C 8MF2 884-5R	95.000	
		600	C 8MF2 886-4E	100.000	C 8MF2 886-4R	100.000	C 8MF2 886-5E	100.000	C 8MF2 886-5R	100.000	
		800	C 8MF2 888-4E	110.000	C 8MF2 888-4R	110.000	C 8MF2 888-5E	110.000	C 8MF2 888-5R	110.000	
	900	400	C 8MF2 894-4E	100.000	C 8MF2 894-4R	100.000	C 8MF2 894-5E	100.000	C 8MF2 894-5R	100.000	
		600	C 8MF2 896-4E	110.000	C 8MF2 896-4R	110.000	C 8MF2 896-5E	110.000	C 8MF2 896-5R	110.000	
		800	C 8MF2 898-4E	120.000	C 8MF2 898-4R	120.000	C 8MF2 898-5E	120.000	C 8MF2 898-5R	120.000	
2000	1000	400	C 8MF2 804-4E	100.000	C 8MF2 804-4R	100.000	C 8MF2 804-5E	100.000	C 8MF2 804-5R	100.000	
		600	C 8MF2 806-4E	110.000	C 8MF2 806-4R	110.000	C 8MF2 806-5E	110.000	C 8MF2 806-5R	110.000	
		800	C 8MF2 808-4E	120.000	C 8MF2 808-4R	120.000	C 8MF2 808-5E	120.000	C 8MF2 808-5R	120.000	
	1200	400	C 8MF2 824-4E	115.000	C 8MF2 824-4R	115.000	C 8MF2 824-5E	115.000	C 8MF2 824-5R	115.000	
		600	C 8MF2 826-4E	125.000	C 8MF2 826-4R	125.000	C 8MF2 826-5E	125.000	C 8MF2 826-5R	125.000	
		800	C 8MF2 828-4E	135.000	C 8MF2 828-4R	135.000	C 8MF2 828-5E	135.000	C 8MF2 828-5R	135.000	
	2200	600	C 8MF2 064-4E	105.000	C 8MF2 064-4R	105.000	C 8MF2 064-5E	105.000	C 8MF2 064-5R	105.000	
		600	C 8MF2 066-4E	105.000	C 8MF2 066-4R	105.000	C 8MF2 066-5E	105.000	C 8MF2 066-5R	105.000	
		800	C 8MF2 068-4E	120.000	C 8MF2 068-4R	120.000	C 8MF2 068-5E	120.000	C 8MF2 068-5R	120.000	
		800	C 8MF2 084-4E	110.000	C 8MF2 084-4R	110.000	C 8MF2 084-5E	110.000	C 8MF2 084-5R	110.000	
		600	C 8MF2 086-4E	120.000	C 8MF2 086-4R	120.000	C 8MF2 086-5E	120.000	C 8MF2 086-5R	120.000	
		800	C 8MF2 088-4E	165.000	C 8MF2 088-4R	165.000	C 8MF2 088-5E	165.000	C 8MF2 088-5R	165.000	
		900	C 8MF2 094-4E	125.000	C 8MF2 094-4R	125.000	C 8MF2 094-5E	125.000	C 8MF2 094-5R	125.000	
		600	C 8MF2 096-4E	135.000	C 8MF2 096-4R	135.000	C 8MF2 096-5E	135.000	C 8MF2 096-5R	135.000	
		800	C 8MF2 098-4E	145.000	C 8MF2 098-4R	145.000	C 8MF2 098-5E	145.000	C 8MF2 098-5R	145.000	
	1000	400	C 8MF2 004-4E	130.000	C 8MF2 004-4R	130.000	C 8MF2 004-5E	130.000	C 8MF2 004-5R	130.000	
		600	C 8MF2 006-4E	145.000	C 8MF2 006-4R	145.000	C 8MF2 006-5E	145.000	C 8MF2 006-5R	145.000	
		800	C 8MF2 008-4E	155.000	C 8MF2 008-4R	155.000	C 8MF2 008-5E	155.000	C 8MF2 008-5R	155.000	
	1200	400	C 8MF2 024-4E	145.000	C 8MF2 024-4R	145.000	C 8MF2 024-5E	145.000	C 8MF2 024-5R	145.000	
		600	C 8MF2 026-4E	155.000	C 8MF2 026-4R	155.000	C 8MF2 026-5E	155.000	C 8MF2 026-5R	155.000	
		800	C 8MF2 028-4E	165.000	C 8MF2 028-4R	165.000	C 8MF2 028-5E	165.000	C 8MF2 028-5R	165.000	
2200	600	400	C 8MF2 264-4E	130.000	C 8MF2 264-4R	130.000	C 8MF2 264-5E	130.000	C 8MF2 264-5R	130.000	
		600	C 8MF2 266-4E	135.000	C 8MF2 266-4R	135.000	C 8MF2 266-5E	135.000	C 8MF2 266-5R	135.000	
		800	C 8MF2 268-4E	145.000	C 8MF2 268-4R	145.000	C 8MF2 268-5E	145.000	C 8MF2 268-5R	145.000	
	800	400	C 8MF2 284-4E	135.000	C 8MF2 284-4R	135.000	C 8MF2 284-5E	135.000	C 8MF2 284-5R	135.000	
		600	C 8MF2 286-4E	145.000	C 8MF2 286-4R	145.000	C 8MF2 286-5E	145.000	C 8MF2 286-5R	145.000	
		800	C 8MF2 288-4E	175.000	C 8MF2 288-4R	175.000	C 8MF2 288-5E	175.000	C 8MF2 288-5R	175.000	
	900	400	C 8MF2 294-4E	140.000	C 8MF2 294-4R	140.000	C 8MF2 294-5E	140.000	C 8MF2 294-5R	140.000	
		600	C 8MF2 296-4E	165.000	C 8MF2 296-4R	165.000	C 8MF2 296-5E	165.000	C 8MF2 296-5R	165.000	
		800	C 8MF2 298-4E	175.000	C 8MF2 298-4R	175.000	C 8MF2 298-5E	175.000	C 8MF2 298-5R	175.000	
	1000	400	C 8MF2 204-4E	165.000	C 8MF2 204-4R	165.000	C 8MF2 204-5E	165.000	C 8MF2 204-5R	165.000	
		600	C 8MF2 206-4E	175.000	C 8MF2 206-4R	175.000	C 8MF2 206-5E	175.000	C 8MF2 206-5R	175.000	
		800	C 8MF2 208-4E	185.000	C 8MF2 208-4R	185.000	C 8MF2 208-5E	185.000	C 8MF2 208-5R	185.000	
	1200	400	C 8MF2 224-4E	185.000	C 8MF2 224-4R	185.000	C 8MF2 224-5E	185.000	C 8MF2 224-5R	185.000	
		600	C 8MF2 226-4E	195.000	C 8MF2 226-4R	195.000	C 8MF2 226-5E	195.000	C 8MF2 226-5R	195.000	
		800	C 8MF2 228-4E	210.000	C 8MF2 228-4R	210.000	C 8MF2 228-5E	210.000	C 8MF2 228-5R	210.000	

The packaging size for 8MF2 cubicles is 1 cubicl,
i.e. any chosen number of cubicles or a multiple thereof
can be ordered.

If a door with left-hand hinges is required, add the suffix "-Z" to
the Order No. and "left-hand hinge" to the text.

Special dimensions on request.

System Cubicles

Cubicles Without Ventilation

Ordering data, 8MF5 standard cubicle (screwed, unassembled)

2

Height mm	Width mm	Depth mm	DT	Stand-alone cubicle		DT	Suite installa- tion		DT	Stand-alone cubicle		DT	Suite installa- tion		Weight per unit, approx. kg	
				Order No.	Weight per unit, approx. kg		Order No.	Weight per unit, approx. kg		Order No.	Weight per unit, approx. kg		Order No.	Weight per unit, approx. kg		
Degree of protection IP40																
1800	600	400	C	8MF5864-4E	85.000	C	8MF5864-4R	85.000	C	8MF5864-5E	85.000	C	8MF5864-5R	85.000		
		600	C	8MF5866-4E	90.000	C	8MF5866-4R	90.000	C	8MF5866-5E	90.000	C	8MF5866-5R	90.000		
		800	C	8MF5868-4E	100.000	C	8MF5868-4R	100.000	C	8MF5868-5E	100.000	C	8MF5868-5R	100.000		
	800	400	C	8MF5884-4E	95.000	C	8MF5884-4R	95.000	C	8MF5884-5E	95.000	C	8MF5884-5R	95.000		
		600	C	8MF5886-4E	100.000	C	8MF5886-4R	100.000	C	8MF5886-5E	100.000	C	8MF5886-5R	100.000		
		800	C	8MF5888-4E	110.000	C	8MF5888-4R	110.000	C	8MF5888-5E	110.000	C	8MF5888-5R	110.000		
	900	400	C	8MF5894-4E	100.000	C	8MF5894-4R	100.000	C	8MF5894-5E	100.000	C	8MF5894-5R	100.000		
		600	C	8MF5896-4E	110.000	C	8MF5896-4R	110.000	C	8MF5896-5E	110.000	C	8MF5896-5R	110.000		
		800	C	8MF5898-4E	120.000	C	8MF5898-4R	120.000	C	8MF5898-5E	120.000	C	8MF5898-5R	120.000		
	1200	400	C	8MF5824-4E	115.000	C	8MF5824-4R	115.000	C	8MF5824-5E	115.000	C	8MF5824-5R	115.000		
		600	C	8MF5826-4E	125.000	C	8MF5826-4R	125.000	C	8MF5826-5E	125.000	C	8MF5826-5R	125.000		
		800	C	8MF5828-4E	135.000	C	8MF5828-4R	135.000	C	8MF5828-5E	135.000	C	8MF5828-5R	135.000		
2000	600	400	C	8MF5064-4E	105.000	C	8MF5064-4R	105.000	C	8MF5064-5E	105.000	C	8MF5064-5R	105.000		
		600	C	8MF5066-4E	105.000	C	8MF5066-4R	105.000	C	8MF5066-5E	105.000	C	8MF5066-5R	105.000		
		800	C	8MF5068-4E	120.000	C	8MF5068-4R	120.000	C	8MF5068-5E	120.000	C	8MF5068-5R	120.000		
	800	400	C	8MF5084-4E	110.000	C	8MF5084-4R	110.000	C	8MF5084-5E	110.000	C	8MF5084-5R	110.000		
		600	C	8MF5086-4E	120.000	C	8MF5086-4R	120.000	C	8MF5086-5E	120.000	C	8MF5086-5R	120.000		
		800	C	8MF5088-4E	165.000	C	8MF5088-4R	165.000	C	8MF5088-5E	165.000	C	8MF5088-5R	165.000		
	900	400	C	8MF5094-4E	125.000	C	8MF5094-4R	125.000	C	8MF5094-5E	125.000	C	8MF5094-5R	125.000		
		600	C	8MF5096-4E	135.000	C	8MF5096-4R	135.000	C	8MF5096-5E	135.000	C	8MF5096-5R	135.000		
		800	C	8MF5098-4E	145.000	C	8MF5098-4R	145.000	C	8MF5098-5E	145.000	C	8MF5098-5R	145.000		
	1200	400	C	8MF5024-4E	145.000	C	8MF5024-4R	145.000	C	8MF5024-5E	145.000	C	8MF5024-5R	145.000		
		600	C	8MF5026-4E	155.000	C	8MF5026-4R	155.000	C	8MF5026-5E	155.000	C	8MF5026-5R	155.000		
		800	C	8MF5028-4E	165.000	C	8MF5028-4R	165.000	C	8MF5028-5E	165.000	C	8MF5028-5R	165.000		
2200	600	400	C	8MF5264-4E	130.000	C	8MF5264-4R	130.000	C	8MF5264-5E	130.000	C	8MF5264-5R	130.000		
		600	C	8MF5266-4E	135.000	C	8MF5266-4R	135.000	C	8MF5266-5E	135.000	C	8MF5266-5R	135.000		
		800	C	8MF5268-4E	145.000	C	8MF5268-4R	145.000	C	8MF5268-5E	145.000	C	8MF5268-5R	145.000		
	800	400	C	8MF5284-4E	135.000	C	8MF5284-4R	135.000	C	8MF5284-5E	135.000	C	8MF5284-5R	135.000		
		600	C	8MF5286-4E	145.000	C	8MF5286-4R	145.000	C	8MF5286-5E	145.000	C	8MF5286-5R	145.000		
		800	C	8MF5288-4E	175.000	C	8MF5288-4R	175.000	C	8MF5288-5E	175.000	C	8MF5288-5R	175.000		
	900	400	C	8MF5294-4E	140.000	C	8MF5294-4R	140.000	C	8MF5294-5E	140.000	C	8MF5294-5R	140.000		
		600	C	8MF5296-4E	165.000	C	8MF5296-4R	165.000	C	8MF5296-5E	165.000	C	8MF5296-5R	165.000		
		800	C	8MF5298-4E	175.000	C	8MF5298-4R	175.000	C	8MF5298-5E	175.000	C	8MF5298-5R	175.000		
	1200	400	C	8MF5224-4E	185.000	C	8MF5224-4R	185.000	C	8MF5224-5E	185.000	C	8MF5224-5R	185.000		
		600	C	8MF5226-4E	195.000	C	8MF5226-4R	195.000	C	8MF5226-5E	195.000	C	8MF5226-5R	195.000		
		800	C	8MF5228-4E	210.000	C	8MF5228-4R	210.000	C	8MF5228-5E	210.000	C	8MF5228-5R	210.000		

The packaging size for 8MF5 cubicles is 1 cubicle, i.e. 1 cubicle or a multiple thereof can be ordered.

If a door with left-hand hinges is required, add the suffix "-Z" to the Order No. and "left-hand hinge" to the text.

Special dimensions on request.

System Cubicles

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Cubicles Without Ventilation

Ordering data, 8MF6 standard cubicle (screwed, pre-assembled)

Height mm	Width mm	Depth mm	DT	Stand-alone cubicle		DT	Suite installa- tion		DT	Stand-alone cubicle		DT	Suite installa- tion		Weight per unit, approx. kg	
				Order No.	Weight per unit, approx. kg		Order No.	Weight per unit, approx. kg		Order No.	Weight per unit, approx. kg		Order No.	Weight per unit, approx. kg		
Degree of protection IP40																
1800	600	400	C	8MF6864-4E	85.000	C	8MF6864-4R	85.000	C	8MF6864-5E	85.000	C	8MF6864-5R	85.000		
		600	C	8MF6866-4E	90.000	C	8MF6866-4R	90.000	C	8MF6866-5E	90.000	C	8MF6866-5R	90.000		
		800	C	8MF6868-4E	100.000	C	8MF6868-4R	100.000	C	8MF6868-5E	100.000	C	8MF6868-5R	100.000		
	800	400	C	8MF6884-4E	95.000	C	8MF6884-4R	95.000	C	8MF6884-5E	95.000	C	8MF6884-5R	95.000		
		600	C	8MF6886-4E	100.000	C	8MF6886-4R	100.000	C	8MF6886-5E	100.000	C	8MF6886-5R	100.000		
		800	C	8MF6888-4E	110.000	C	8MF6888-4R	110.000	C	8MF6888-5E	110.000	C	8MF6888-5R	110.000		
	900	400	C	8MF6894-4E	100.000	C	8MF6894-4R	100.000	C	8MF6894-5E	100.000	C	8MF6894-5R	100.000		
		600	C	8MF6896-4E	110.000	C	8MF6896-4R	110.000	C	8MF6896-5E	110.000	C	8MF6896-5R	110.000		
		800	C	8MF6898-4E	120.000	C	8MF6898-4R	120.000	C	8MF6898-5E	120.000	C	8MF6898-5R	120.000		
2000	1200	400	C	8MF6824-4E	115.000	C	8MF6824-4R	115.000	C	8MF6824-5E	115.000	C	8MF6824-5R	115.000		
		600	C	8MF6826-4E	125.000	C	8MF6826-4R	125.000	C	8MF6826-5E	125.000	C	8MF6826-5R	125.000		
		800	C	8MF6828-4E	135.000	C	8MF6828-4R	135.000	C	8MF6828-5E	135.000	C	8MF6828-5R	135.000		
	800	400	C	8MF6064-4E	105.000	C	8MF6064-4R	105.000	C	8MF6064-5E	105.000	C	8MF6064-5R	105.000		
		600	C	8MF6066-4E	105.000	C	8MF6066-4R	105.000	C	8MF6066-5E	105.000	C	8MF6066-5R	105.000		
		800	C	8MF6068-4E	120.000	C	8MF6068-4R	120.000	C	8MF6068-5E	120.000	C	8MF6068-5R	120.000		
	900	400	C	8MF6084-4E	110.000	C	8MF6084-4R	110.000	C	8MF6084-5E	110.000	C	8MF6084-5R	110.000		
		600	C	8MF6086-4E	120.000	C	8MF6086-4R	120.000	C	8MF6086-5E	120.000	C	8MF6086-5R	120.000		
		800	C	8MF6088-4E	165.000	C	8MF6088-4R	165.000	C	8MF6088-5E	165.000	C	8MF6088-5R	165.000		
2200	900	400	C	8MF6094-4E	125.000	C	8MF6094-4R	125.000	C	8MF6094-5E	125.000	C	8MF6094-5R	125.000		
		600	C	8MF6096-4E	135.000	C	8MF6096-4R	135.000	C	8MF6096-5E	135.000	C	8MF6096-5R	135.000		
		800	C	8MF6098-4E	145.000	C	8MF6098-4R	145.000	C	8MF6098-5E	145.000	C	8MF6098-5R	145.000		
	1200	400	C	8MF6024-4E	145.000	C	8MF6024-4R	145.000	C	8MF6024-5E	145.000	C	8MF6024-5R	145.000		
		600	C	8MF6026-4E	155.000	C	8MF6026-4R	155.000	C	8MF6026-5E	155.000	C	8MF6026-5R	155.000		
		800	C	8MF6028-4E	165.000	C	8MF6028-4R	165.000	C	8MF6028-5E	165.000	C	8MF6028-5R	165.000		
	800	400	C	8MF6264-4E	130.000	C	8MF6264-4R	130.000	C	8MF6264-5E	130.000	C	8MF6264-5R	130.000		
		600	C	8MF6266-4E	135.000	C	8MF6266-4R	135.000	C	8MF6266-5E	135.000	C	8MF6266-5R	135.000		
		800	C	8MF6268-4E	145.000	C	8MF6268-4R	145.000	C	8MF6268-5E	145.000	C	8MF6268-5R	145.000		
	800	400	C	8MF6284-4E	135.000	C	8MF6284-4R	135.000	C	8MF6284-5E	135.000	C	8MF6284-5R	135.000		
		600	C	8MF6286-4E	145.000	C	8MF6286-4R	145.000	C	8MF6286-5E	145.000	C	8MF6286-5R	145.000		
		800	C	8MF6288-4E	175.000	C	8MF6288-4R	175.000	C	8MF6288-5E	175.000	C	8MF6288-5R	175.000		
	900	400	C	8MF6294-4E	140.000	C	8MF6294-4R	140.000	C	8MF6294-5E	140.000	C	8MF6294-5R	140.000		
		600	C	8MF6296-4E	165.000	C	8MF6296-4R	165.000	C	8MF6296-5E	165.000	C	8MF6296-5R	165.000		
		800	C	8MF6298-4E	175.000	C	8MF6298-4R	175.000	C	8MF6298-5E	175.000	C	8MF6298-5R	175.000		
	1200	400	C	8MF6224-4E	185.000	C	8MF6224-4R	185.000	C	8MF6224-5E	185.000	C	8MF6224-5R	185.000		
		600	C	8MF6226-4E	195.000	C	8MF6226-4R	195.000	C	8MF6226-5E	195.000	C	8MF6226-5R	195.000		
		800	C	8MF6228-4E	210.000	C	8MF6228-4R	210.000	C	8MF6228-5E	210.000	C	8MF6228-5R	210.000		

The packaging size for 8MF6 cubicles is 1 cubicle, i.e. 1 cubicle or a multiple thereof can be ordered.

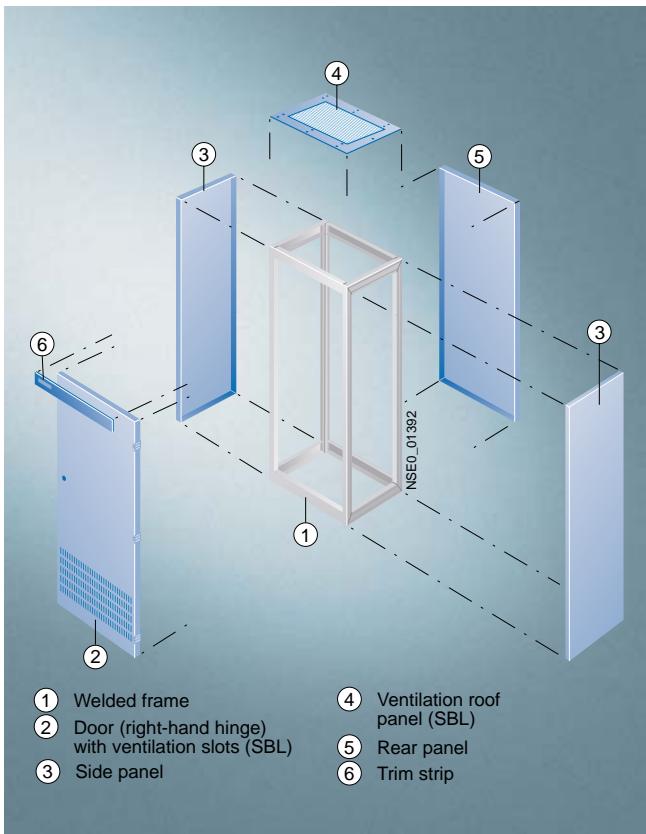
If a door with left-hand hinges is required, add the suffix "-Z" to the Order No. and "left-hand hinge" to the text.

Special dimensions on request.

Cubicles With Ventilation

Overview

System cubicle 8MC/8MF2



Ever compacter designs and increased packing densities demand special measures for heat dissipation. In response to such requirements, we offer standard cubicles with ventilation with the degrees of protection IP30 and IP40.

The cubicles with ventilation possess a perforated roof panel and doors with standard 5-row ventilation slots to guarantee natural convection. Specifications of the standard ventilation cross-sections are given under "Cubicle Modifications". The ventilation cross-section can be increased easily, where necessary. If the possible increase is still not sufficient, we offer a comprehensive range of forced-ventilation options as described in the section "Cubicle Air-Conditioning."

Elaboration of the SBL ventilation design has permitted attainment of a higher air throughput per unit of area. Thus the required ventilation area can optionally be arranged in the lower section of the cubicle, in order to maximize the effectiveness of convection.

The cubicles with degrees of protection IP30 and IP40 possess an identically attractive design, enhancing the overall appearance of our cubicle installations.

Selection and ordering data

Scope of delivery

	8MC2	8MF2
Standard version		
Frame	Welded, sheet steel 2.5 mm, zinkcor-and powder-coat	
Enclosure parts		
• Rear panel	Folded, sheet steel 1.5 mm, sendzimir-galvanized	Folded, sheet steel 1.5 mm, powder-coated
• Side panels (optional)	Folded, sheet steel 1.5 mm, powder-coated	
• Door	Five rows of ventilation slots, sheet steel 1.5 mm, powder-coated, front door (right-hand hinges) or double-wing doors from width 1000 mm, espagnollette lock with double-bit key (DIN 43668), lock insert with ø 3 mm pin, 180° hinges (opening angle approx. 130° for cubicle suites)	
• Trim strip	-	Petrol-blue
• Roof panel	Perforated, sheet steel 1.5 mm, sendzimir-galvanized	
Paint finish	Powder coating, surface with fine structured finish, for indoor installation	
• Cubicle color	RAL 7032 ¹⁾ (other cubicle colors on request)	
• Frame color	RAL 7032	
Degree of protection	IP30/IP40 to EN 60529	

1) The colors RAL 7032 and SN611 (ergogray, Siemens standard) are identical in price.

Order designations for standard versions

	8 M C 2	8 M F 2
Height	8 0 2	
Width	6 8 9 0 2	
Depth	4 6 6 8	
Degr. of protect.	3 4	
Installation	Suite installation	
Ventilation	With ventilation	

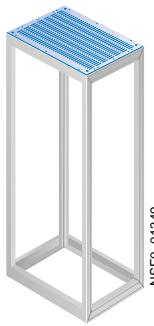
System Cubicles

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Cubicles With Ventilation

Ventilation cross-section of ventilation roof panel (SBL)

A ventilation roof panel (SBL) is included in the scope of delivery of a standard cubicle with ventilation.



NSE0_01349

Cubicle width mm	Cubicle depth mm	Effective ventilation cross-section cm ²
Degree of protection IP30		
600	400	518.40
600	600	725.70
800	800	933.10
800	400	710.40
600	600	994.60
800	800	1278.70
1000	400	902.40
600	600	1263.30
800	800	1624.30
1200	400	1094.40
600	600	1532.10
800	800	1969.90
Degree of protection IP40		
600	400	311.00
600	600	435.40
800	800	559.80
800	400	426.40
600	600	596.70
800	800	767.20
1000	400	541.40
600	600	758.00
800	800	974.50
1200	400	656.60
600	600	919.20
800	800	1181.90

Ventilation cross-section of ventilation slots (SBL)

The doors of a standard cubicle with ventilation are supplied with 5 rows of ventilation slots (SBL).



NSE0_01344

Cubicle door width mm	Effective ventilation cross-section per row of ventilation slots cm ²
IP30	
600	86
800	131
900	146
1000	156
1200	172
IP40	
600	52
800	72
900	80
1000	93
1200	104

Cubicles With Ventilation

Ordering data, 8MC2 and 8MF2 standard cubicles with ventilation

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Height	Width	Depth	DT	8MC	Weight per unit, approx.	DT	8MF	Weight per unit, approx.	DT	8MC	Weight per unit, approx.	DT	8MF	Weight per unit, approx.
				Suite installation			Suite installation			Suite installation			Suite installation	
				Order No.			Order No.			Order No.			Order No.	
mm			kg				kg				kg			
1800	600	400	C	8MC2 864-3RB	85.000	C	8MF2 864-3RB	85.000	C	8MC2 864-4RB	85.000	C	8MF2 864-4RB	85.000
		600	C	8MC2 866-3RB	90.000	C	8MF2 866-3RB	90.000	C	8MC2 866-4RB	90.000	C	8MF2 866-4RB	90.000
		800	C	8MC2 868-3RB	100.000	C	8MF2 868-3RB	100.000	C	8MC2 868-4RB	100.000	C	8MF2 868-4RB	100.000
	800	400	C	8MC2 884-3RB	95.000	C	8MF2 884-3RB	95.000	C	8MC2 884-4RB	95.000	C	8MF2 884-4RB	95.000
		600	C	8MC2 886-3RB	100.000	C	8MF2 886-3RB	100.000	C	8MC2 886-4RB	100.000	C	8MF2 886-4RB	100.000
		800	C	8MC2 888-3RB	110.000	C	8MF2 888-3RB	110.000	C	8MC2 888-4RB	110.000	C	8MF2 888-4RB	110.000
	900	400	C	8MC2 894-3RB	100.000	C	8MF2 894-3RB	100.000	C	8MC2 894-4RB	100.000	C	8MF2 894-4RB	100.000
		600	C	8MC2 896-3RB	110.000	C	8MF2 896-3RB	110.000	C	8MC2 896-4RB	110.000	C	8MF2 896-4RB	110.000
		800	C	8MC2 898-3RB	120.000	C	8MF2 898-3RB	120.000	C	8MC2 898-4RB	120.000	C	8MF2 898-4RB	120.000
2000	1000	400	C	8MC2 804-3RB	100.000	C	8MF2 804-3RB	100.000	C	8MC2 804-4RB	100.000	C	8MF2 804-4RB	100.000
		600	C	8MC2 806-3RB	110.000	C	8MF2 806-3RB	110.000	C	8MC2 806-4RB	110.000	C	8MF2 806-4RB	110.000
		800	C	8MC2 808-3RB	120.000	C	8MF2 808-3RB	120.000	C	8MC2 808-4RB	120.000	C	8MF2 808-4RB	120.000
	1200	400	C	8MC2 824-3RB	115.000	C	8MF2 824-3RB	115.000	C	8MC2 824-4RB	115.000	C	8MF2 824-4RB	115.000
		600	C	8MC2 826-3RB	125.000	C	8MF2 826-3RB	125.000	C	8MC2 826-4RB	125.000	C	8MF2 826-4RB	125.000
		800	C	8MC2 828-3RB	135.000	C	8MF2 828-3RB	135.000	C	8MC2 828-4RB	135.000	C	8MF2 828-4RB	135.000
	2000	600	C	8MC2 064-3RB	105.000	C	8MF2 064-3RB	105.000	C	8MC2 064-4RB	105.000	C	8MF2 064-4RB	105.000
		600	C	8MC2 066-3RB	105.000	C	8MF2 066-3RB	105.000	C	8MC2 066-4RB	105.000	C	8MF2 066-4RB	105.000
		800	C	8MC2 068-3RB	120.000	C	8MF2 068-3RB	120.000	C	8MC2 068-4RB	120.000	C	8MF2 068-4RB	120.000
2200	800	400	C	8MC2 084-3RB	110.000	C	8MF2 084-3RB	110.000	C	8MC2 084-4RB	110.000	C	8MF2 084-4RB	110.000
		600	C	8MC2 086-3RB	120.000	C	8MF2 086-3RB	120.000	C	8MC2 086-4RB	120.000	C	8MF2 086-4RB	120.000
		800	C	8MC2 088-3RB	165.000	C	8MF2 088-3RB	165.000	C	8MC2 088-4RB	165.000	C	8MF2 088-4RB	165.000
	900	400	C	8MC2 094-3RB	125.000	C	8MF2 094-3RB	125.000	C	8MC2 094-4RB	125.000	C	8MF2 094-4RB	125.000
		600	C	8MC2 096-3RB	135.000	C	8MF2 096-3RB	135.000	C	8MC2 096-4RB	135.000	C	8MF2 096-4RB	135.000
		800	C	8MC2 098-3RB	145.000	C	8MF2 098-3RB	145.000	C	8MC2 098-4RB	145.000	C	8MF2 098-4RB	145.000
	1000	400	C	8MC2 004-3RB	130.000	C	8MF2 004-3RB	130.000	C	8MC2 004-4RB	130.000	C	8MF2 004-4RB	130.000
		600	C	8MC2 006-3RB	145.000	C	8MF2 006-3RB	145.000	C	8MC2 006-4RB	145.000	C	8MF2 006-4RB	145.000
		800	C	8MC2 008-3RB	155.000	C	8MF2 008-3RB	155.000	C	8MC2 008-4RB	155.000	C	8MF2 008-4RB	155.000
	1200	400	C	8MC2 024-3RB	145.000	C	8MF2 024-3RB	145.000	C	8MC2 024-4RB	145.000	C	8MF2 024-4RB	145.000
		600	C	8MC2 026-3RB	155.000	C	8MF2 026-3RB	155.000	C	8MC2 026-4RB	155.000	C	8MF2 026-4RB	155.000
		800	C	8MC2 028-3RB	165.000	C	8MF2 028-3RB	165.000	C	8MC2 028-4RB	165.000	C	8MF2 028-4RB	165.000
2400	600	400	C	8MC2 264-3RB	130.000	C	8MF2 264-3RB	130.000	C	8MC2 264-4RB	130.000	C	8MF2 264-4RB	130.000
		600	C	8MC2 266-3RB	135.000	C	8MF2 266-3RB	135.000	C	8MC2 266-4RB	135.000	C	8MF2 266-4RB	135.000
		800	C	8MC2 268-3RB	145.000	C	8MF2 268-3RB	145.000	C	8MC2 268-4RB	145.000	C	8MF2 268-4RB	145.000
	800	400	C	8MC2 284-3RB	135.000	C	8MF2 284-3RB	135.000	C	8MC2 284-4RB	135.000	C	8MF2 284-4RB	135.000
		600	C	8MC2 286-3RB	145.000	C	8MF2 286-3RB	145.000	C	8MC2 286-4RB	145.000	C	8MF2 286-4RB	145.000
		800	C	8MC2 288-3RB	175.000	C	8MF2 288-3RB	175.000	C	8MC2 288-4RB	175.000	C	8MF2 288-4RB	175.000
	900	400	C	8MC2 294-3RB	140.000	C	8MF2 294-3RB	140.000	C	8MC2 294-4RB	140.000	C	8MF2 294-4RB	140.000
		600	C	8MC2 296-3RB	165.000	C	8MF2 296-3RB	165.000	C	8MC2 296-4RB	165.000	C	8MF2 296-4RB	165.000
		800	C	8MC2 298-3RB	175.000	C	8MF2 298-3RB	175.000	C	8MC2 298-4RB	175.000	C	8MF2 298-4RB	175.000
	1000	400	C	8MC2 204-3RB	165.000	C	8MF2 204-3RB	165.000	C	8MC2 204-4RB	165.000	C	8MF2 204-4RB	165.000
		600	C	8MC2 206-3RB	175.000	C	8MF2 206-3RB	175.000	C	8MC2 206-4RB	175.000	C	8MF2 206-4RB	175.000
		800	C	8MC2 208-3RB	185.000	C	8MF2 208-3RB	185.000	C	8MC2 208-4RB	185.000	C	8MF2 208-4RB	185.000
	1200	400	C	8MC2 224-3RB	185.000	C	8MF2 224-3RB	185.000	C	8MC2 224-4RB	185.000	C	8MF2 224-4RB	185.000
		600	C	8MC2 226-3RB	195.000	C	8MF2 226-3RB	195.000	C	8MC2 226-4RB	195.000	C	8MF2 226-4RB	195.000
		800	C	8MC2 228-3RB	210.000	C	8MF2 228-3RB	210.000	C	8MC2 228-4RB	210.000	C	8MF2 228-4RB	210.000

The packaging size for 8MC2 and 8MF2 cubicles is 1 cubicle,
i.e. any chosen number of cubicles can be ordered.

If a door with left-hand hinges is required, add the suffix "-Z" to
the Order No. and "left-hand hinge" to the text.

Special dimensions on request.

System Cubicles

2

Cubicle Interconnection

Selection and ordering data

We offer two possibilities for deliveries of cubicles for suite installation:

- Individual cubicles for interconnection by the customer, or
- Ready-assembled cubicle suites (installation plan must be provided).

The order number below must be specified when ordering cubicle suites.

Version	DT	For 8MC cubicles		PS*	Weight per unit, approx.	DT	For 8MF cubicles		PS*	Weight per unit, approx.
		Order No.	kg				Order No.	kg		
Cubicle interconnection (screwed joining of two cubicles to form a cubicle suite)										
Degree of protection IP40	C	8MC9 100	1 unit	0.380	C	8MF9100	1 unit	0.150		
Degree of protection IP54	C	8MC9 101	1 unit	0.530	C	8MF9101	1 unit	0.825		



Example of an order using order numbers

You require three 8MC2 or 8MF2 cubicles, HxWxD = 2000 x 800 x 600 mm, for suite interconnection, degree of protection IP40, with plinth, two side panels and interior expansion.

This can be represented with the following order list:

Item	Description	For 8MC cubicles	For 8MF cubicles
		Order No.	Order No.
1.1	Cubicle 1	8MC2 086-4R	8MF2 086-4R
1.2	Side panel, left	8MC4 131	8MF4 131
1.3	Plinth, H = 100 mm	8MC4 016	8MF4 016
1.4	Mounting plate	8MC4 511	8MF4 511
2.1	Cubicle interconnection with degree of protection IP40	8MC9 100	8MF9 100
3.1	Cubicle 2	8MC2 086-4R	8MF2 086-4R
3.2	Plinth, H = 100 mm	8MC4 016	8MF4 016
4.1	Cubicle interconnection with degree of protection IP40	8MC9 100	8MF9 100
5.1	Cubicle 3	8MC2 086-4R	8MF2 086-4R
5.2	Plinth, H = 100 mm	8MC4 016	8MF4 016
5.3	Side panel, right	8MC4 131	8MF4 131
Complete assembly for all cubicles			

A cubicle installation plan should be included in the order, where appropriate.

Example of an order in plain text

In addition to the ordering of cubicles and accessories using order numbers, we also offer you the possibility to submit orders in plain text.

Below, the order to the left has been translated into plain text:

For 8MC cubicles

8MC2 cubicle suite, ready-assembled, comprising:

- 3 cubicles, HxWxD = 2000 mm x 800 mm x 600 mm, for interconnection, Degree of protection IP40, with plinth H = 100 mm, Mounting plate in left-hand cubicle, Side panels at left-hand and right-hand ends of the suite

For 8MF cubicles

8MF2 cubicle suite, ready-assembled, comprising:

- 3 cubicles, HxWxD = 2000 mm x 800 mm x 600 mm, for interconnection, Degree of protection IP40, with plinth H = 100 mm, Mounting plate in left-hand cubicle, Side panels at left-hand and right-hand ends of the suite

Cubicle Interconnection

2

Accessories

Version	DT	For 8MC2 cubicles	PS*	Weight per unit, approx.	DT	For 8MF cubicles	PS*	Weight per unit, approx.	
		Order No.		kg		Order No.		kg	
Assembly kit									
		Assembly kit for cubicle interconnection comprising:							
	C	<ul style="list-style-type: none"> • 8 pcs. low-profile nut M10, DIN 4035 (as spacers) • 8 pcs. hexagon screw M10 x 25, DIN 4017-8.8 • 8 pcs. hexagon nuts M10, DIN 4032-8 • 16 pcs. contact washer 10 	8MC9 113	1 set	0.380	-			
		<ul style="list-style-type: none"> • 12 pcs. stud M8 x 25 • 12 pcs. hexagon nut M8, DIN 4032-8 • 12 pcs. contact washers 10, SN 70093 	-		C	8MF9 113	1 set	0.150	
Sealing material									
	C	Set of seals to interconnect two cubicles with degree of protection IP54	8MC9 115	1 set	0.110	C	8MF9 115	1 set	0.335



Sealing material



System Cubicles

Notes

2

3

Cubicle Modifications

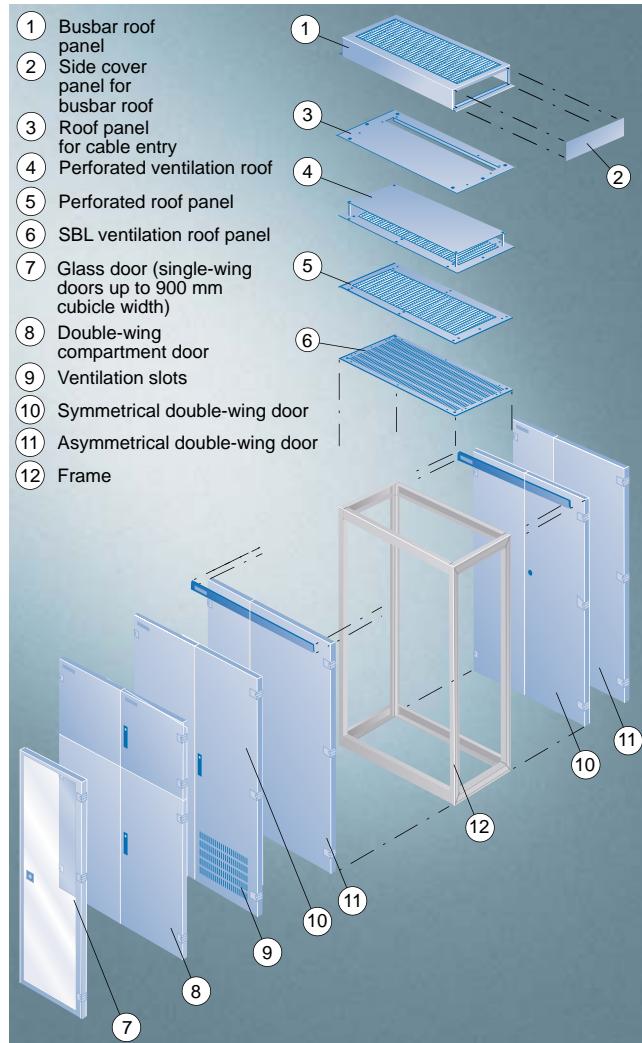


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Cubicle Modifications

Introduction

Overview



What are cubicle modifications?

An standard 8MC2 or 8MF system cubicle comprises the following basic elements:

- a frame,
- a rear panel,
- a flat-panel roof,
- a door with espagnolette lock and 3 mm lock insert for double-bit key, and
- possibly side panels (in case of stand-alone installation).

For special requirements the standard system cubicle can be modified by replacing individual elements or by providing cut-outs, e.g.

- with a double-wing door in place of a single door,
- with an instrument cover in place of a front door,
- with a door in place of a rear panel,
- with a roof prepared to accommodate a busbar in place of a flat panel,
- with the integration of ventilation slots into a standard door and with a perforated ventilation roof in place of a flat panel.

All these options are described as cubicle modifications. The various possible cubicle modifications are explained in more detail in this catalog section.

How are the prices for cubicle modifications calculated?

The basic elements are either replaced with alternative elements or else provided with cut-outs (ventilation slots), depending on what the customer has requested. For replacement elements, a modification surcharge is derived from the price difference between the basic and replacement elements. In the case of cut-outs in roof or enclosure parts, the modification surcharge reflects the additional work incurred to produce the requested cut-outs.

How are cubicle modifications ordered?

Cubicle modification	Quantity	Technical information
<i>Example 1:</i>		
8MF2 296-4R	1	8MF system cubicle HxWxD = 2200 x 900 x 600 mm
8MF3 045	1	Double-wing door in place of single door
8MF3 113	1	Wing handle door closing
<i>Example 2:</i>		
8MF2 296-4R	1	8MF system cubicle HxWxD = 2200 x 900 x 600 mm
8MF3 150	1	Cut-out for signaling lights in the front trim strip
8MF3 214	1	Single door in place of the rear panel
<i>Example 3:</i>		
8MF2 296-4R	1	8MF system cubicle HxWxD = 2200 x 900 x 600 mm
Customizing of the door	1	Ventilation with IP20
3 rows of ventilation slots	3	Degree of protection reduced to IP20
8MF3 451	1	Perforated ventilation roof with IP20

How do cubicle modifications affect the delivery time?

Irrespective of whether you order doors with ventilation slots, asymmetrically divided doors or a roof to accommodate busbars, cubicle modifications have only minimal influence on the delivery time.

Front Enclosure Parts / Locking

Selection and ordering data

Symmetrically divided double-wing door in place of a single door

Symmetrically divided double-wing doors are designed as for the 1000/1200 mm wide standard cubicles. The espagnolette lock is fitted in the right-hand door. Each wing of a symmetrically divided double-wing door is half the width of the frame on which it is mounted.

If a double-wing door with left-hand locking is required, add the suffix "-Z" to the Order No. and "left-hand locking" to the text.

For cubicle modifications for ventilation, see "Ventilation Slots/Ventilation Gills" and "Roof Panels for Ventilation".



Cubicle height mm	Door width mm	DT	For 8MC2 cubicles		PS*	Weight per unit, approx.	DT	For 8MF cubicles		PS*	Weight per unit, approx.
			Order No.	kg				Order No.	kg		
Degree of protection IP40											
1800	800	C	8MC3 040	1 unit	5.000	C	8MF3 040	1 unit	5.000		
	900	C	8MC3 041	1 unit	5.000	C	8MF3 041	1 unit	5.000		
2000	800	C	8MC3 042	1 unit	5.000	C	8MF3 042	1 unit	5.000		
	900	C	8MC3 043	1 unit	5.000	C	8MF3 043	1 unit	5.000		
2200	800	C	8MC3 044	1 unit	5.000	C	8MF3 044	1 unit	5.000		
	900	C	8MC3 045	1 unit	5.000	C	8MF3 045	1 unit	5.000		
Degree of protection IP54											
1800	800	C	8MC3 046	1 unit	5.000	C	8MF3 046	1 unit	5.000		
	900	C	8MC3 047	1 unit	5.000	C	8MF3 047	1 unit	5.000		
2000	800	C	8MC3 048	1 unit	5.000	C	8MF3 048	1 unit	5.000		
	900	C	8MC3 050	1 unit	5.000	C	8MF3 050	1 unit	5.000		
2200	800	C	8MC3 051	1 unit	5.000	C	8MF3 051	1 unit	5.000		
	900	C	8MC3 052	1 unit	5.000	C	8MF3 052	1 unit	5.000		

Door handles

The handles and lock inserts listed here can be ordered for the standard door and for symmetrically or asymmetrically divided double-wing doors. The system cubicle can be fitted with the most varied handle variants to maximize user convenience.

Further lock systems and handles on request.



Type mm	Lock mm	DT	For 8MC2 cubicles		PS*	Weight per unit, approx.	DT	For 8MF cubicles		PS*	Weight per unit, approx.
			Order No.	kg				Order No.	kg		
Large T-handle	without	C	8MC3 110	1 unit	0.160	C	8MF3 110	1 unit	0.125		
Small T-handle	with	C	8MC3 111	1 unit	0.100	C	8MF3 111	1 unit	0.170		
Latch handle	without	C	8MC3 112	1 unit	0.160	C	8MF3 112	1 unit	0.210		
Wing handle	without	C	8MC3 113	1 unit	0.225	C	8MF3 113	1 unit	0.227		
Wing handle	with	C	8MC3 114	1 unit	0.300	C	8MF3 114	1 unit	0.300		

Lock insert/actuator pin in place of a double-bit key with 3 mm pin

Type mm	Size mm	DT	For 8MC2 cubicles		PS*	Weight per unit, approx.	DT	For 8MF cubicles		PS*	Weight per unit, approx.
			Order No.	kg				Order No.	kg		
■ Square	6	C	8MC3 100	1 unit	0.250	C	8MF3 100	1 unit	0.250		
	7	C	8MC3 101	1 unit	0.250	C	8MF3 101	1 unit	0.250		
	8	C	8MC3 102	1 unit	0.250	C	8MF3 102	1 unit	0.250		
▲ Triangular	7	C	8MC3 103	1 unit	0.250	C	8MF3 103	1 unit	0.250		
	8	C	8MC3 104	1 unit	0.250	C	8MF3 104	1 unit	0.250		
Double-bit key	5	C	8MC3 105	1 unit	0.250	C	8MF3 105	1 unit	0.250		
Daimler-Benz insert		C	8MC3 106	1 unit	0.250	-					

Cubicle Modifications

Front Enclosure Parts / Locking

Asymmetrically divided double-wing door in place of a single door

Asymmetrically divided double-wing doors are designed as for the 800 mm to 1200 mm wide standard cubicles. The espagnolette lock is fitted in the right-hand door.

If a double-wing door with left-hand locking is required, add the suffix "-Z" to the Order No. and "left-hand locking" to the text.

Other divisions on request. For cubicle modifications for ventilation, see "Ventilation Slots/Ventilation Gills" and "Roof Panels for Ventilation".

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Cubicle height mm	Door width mm	DT	For 8MC2 cubicles			PS*	Weight per unit, approx.	DT	For 8MF cubicles			PS*	Weight per unit, approx.
			Order No.	kg	Order No.				kg				
Degree of protection IP40													
1800	800	C	8MC3 053	1 unit	25.000	C	8MF3 053	1 unit	25.000				
	900	C	8MC3 054	1 unit	25.000	C	8MF3 054	1 unit	25.000				
	1000	C	8MC3 055	1 unit	25.000	C	8MF3 055	1 unit	25.000				
	1200	C	8MC3 056	1 unit	25.000	C	8MF3 056	1 unit	25.000				
2000	800	C	8MC3 057	1 unit	25.000	C	8MF3 057	1 unit	25.000				
	900	C	8MC3 058	1 unit	25.000	C	8MF3 058	1 unit	25.000				
	1000	C	8MC3 121	1 unit	25.000	C	8MF3 121	1 unit	25.000				
	1200	C	8MC3 122	1 unit	25.000	C	8MF3 122	1 unit	25.000				
2200	800	C	8MC3 123	1 unit	25.000	C	8MF3 123	1 unit	25.000				
	900	C	8MC3 124	1 unit	25.000	C	8MF3 124	1 unit	25.000				
	1000	C	8MC3 125	1 unit	25.000	C	8MF3 125	1 unit	25.000				
	1200	C	8MC3 126	1 unit	25.000	C	8MF3 126	1 unit	25.000				
Degree of protection IP54													
1800	800	C	8MC3 127	1 unit	25.000	C	8MF3 127	1 unit	25.000				
	900	C	8MC3 128	1 unit	25.000	C	8MF3 128	1 unit	25.000				
	1000	C	8MC3 130	1 unit	25.000	C	8MF3 130	1 unit	25.000				
	1200	C	8MC3 131	1 unit	25.000	C	8MF3 131	1 unit	25.000				
2000	800	C	8MC3 132	1 unit	25.000	C	8MF3 132	1 unit	25.000				
	900	C	8MC3 133	1 unit	25.000	C	8MF3 133	1 unit	25.000				
	1000	C	8MC3 134	1 unit	25.000	C	8MF3 134	1 unit	25.000				
	1200	C	8MC3 135	1 unit	25.000	C	8MF3 135	1 unit	25.000				
2200	800	C	8MC3 136	1 unit	25.000	C	8MF3 136	1 unit	25.000				
	900	C	8MC3 137	1 unit	25.000	C	8MF3 137	1 unit	25.000				
	1000	C	8MC3 138	1 unit	25.000	C	8MF3 138	1 unit	25.000				
	1200	C	8MC3 140	1 unit	25.000	C	8MF3 140	1 unit	25.000				

Hinges (8MC2 system cubicles only)

The hinges listed here can be ordered for the standard door and for symmetrically or asymmetrically divided double-wing doors. The standard 180° hinges permit an opening angle of approx.

135° for cubicles installed in a suite. The optional 270° hinges permit an opening angle of 270° for single cubicles or 180° for the doors of cubicles in a suite.

Designation	DT	For 8MC2 cubicles			PS*	Weight per unit, approx.	DT	For 8MF cubicles			PS*	Weight per unit, approx.
		Order No.	kg	Order No.				Order No.	kg			
270° hinges (1 set = 3 hinges per door wing)	C	8MC3 120	1 set	0.100	-							

Cubicle Modifications

Front Enclosure Parts / Locking

Trim strip (8MF system cubicles only)

	Design mm	Signaling light cut- out mm	DT	For 8MC2 cubicles		PS*	Weight per unit, approx. kg	DT	For 8MF cubicles		PS*	Weight per unit, approx. kg
				Order No.	kg				Order No.	kg		
Trim strip, petrol blue												
NSE0_01337	with Siemens lettering	right left	-			C	8MF3 150	1 unit	0.100			
	without Siemens lettering	none right left	-			C	8MF3 151	1 unit	0.100			
			-			C	8MF3 152	1 unit	0.100			
			-			C	8MF3 153	1 unit	0.100			
			-			C	8MF3 154	1 unit	0.100			
Trim strip, umbra												
NSE0_01338	with Siemens lettering	none right left	-			C	8MF3 155	1 unit	0.100			
	without Siemens lettering	none right left	-			C	8MF3 156	1 unit	0.100			
			-			C	8MF3 157	1 unit	0.100			
			-			C	8MF3 158	1 unit	0.100			
			-			C	8MF3 160	1 unit	0.100			
			-			C	8MF3 161	1 unit	0.100			
Trim strip, ochre												
	with Siemens lettering	none right left	-			C	8MF3 162	1 unit	0.100			
	without Siemens lettering	none right left	-			C	8MF3 163	1 unit	0.100			
			-			C	8MF3 164	1 unit	0.100			
			-			C	8MF3 165	1 unit	0.100			
			-			C	8MF3 166	1 unit	0.100			
			-			C	8MF3 167	1 unit	0.100			

Other designs on request.

Compartment doors (for cubicle width 600 to 900 mm) in place of a standard door

Doors offer a floor clearance

- of 52.5 mm with 8MC cubicles, ending 2.5 mm below the top edge of the frame. The clearance between compartment doors is 5 mm.
- of 63 mm with 8MF cubicles, ending 63 mm below the top edge of the frame. The clearance between compartment doors is 26 mm.

The locking system for compartment doors is an espagnolette (cam lock) with 3 mm double-bit key (two locks for a door height of more than 500 mm). As an absolutely equal division is not possible, the lower compartment doors are always slightly shorter than the doors above. The tables below illustrate the heights of the compartment doors for the various cubicle heights and divisions:

Cubicle height mm	Compartment doors for system cubicles				
	2 doors mm	3 doors mm	4 doors mm	5 doors mm	
8MC2					
1800	1 x 895 1 x 845	2 x 595 1 x 545	3 x 445 1 x 395	5 x 345	
2000	1 x 995 1 x 945	2 x 695 1 x 645	3 x 495 1 x 445	4 x 395 1 x 345	
2200	1 x 1095 1 x 1045	2 x 745 1 x 645	3 x 545 1 x 495	4 x 445 1 x 345	
8MF					
1800	1 x 874 1 x 774	2 x 574 1 x 474	3 x 374 1 x 474	4 x 274 1 x 474	
2000	1 x 974 1 x 874	2 x 674 1 x 474	3 x 474 1 x 374	4 x 374 1 x 274	
2200	1 x 1074 1 x 974	3 x 674	3 x 574 1 x 274	4 x 374 1 x 474	

* You can order this quantity or a multiple thereof.

Cubicle Modifications

Front Enclosure Parts / Locking

Cubicle height mm	Division mm	DT	For 8MC2 cubicles		PS*	Weight per unit, approx.	DT	For 8MF cubicles		PS*	Weight per unit, approx.
			Order No.	kg				Order No.	kg		
Cubicle width 600 mm											
1800	2	C	8MC3 660	1 unit	20.000	C	8MF3 660	1 unit	20.000		
	3	C	8MC3 661	1 unit	20.000	C	8MF3 661	1 unit	20.000		
	4	C	8MC3 662	1 unit	20.000	C	8MF3 662	1 unit	20.000		
	5	C	8MC3 663	1 unit	20.000	C	8MF3 663	1 unit	20.000		
2000	2	C	8MC3 665	1 unit	20.000	C	8MF3 665	1 unit	20.000		
	3	C	8MC3 666	1 unit	20.000	C	8MF3 666	1 unit	20.000		
	4	C	8MC3 667	1 unit	20.000	C	8MF3 667	1 unit	20.000		
	5	C	8MC3 668	1 unit	20.000	C	8MF3 668	1 unit	20.000		
2200	2	C	8MC3 670	1 unit	20.000	C	8MF3 670	1 unit	20.000		
	3	C	8MC3 671	1 unit	20.000	C	8MF3 671	1 unit	20.000		
	4	C	8MC3 672	1 unit	20.000	C	8MF3 672	1 unit	20.000		
	5	C	8MC3 673	1 unit	20.000	C	8MF3 673	1 unit	20.000		
Cubicle width 800 mm											
1800	2	C	8MC3 860	1 unit	20.000	C	8MF3 860	1 unit	20.000		
	3	C	8MC3 861	1 unit	20.000	C	8MF3 861	1 unit	20.000		
	4	C	8MC3 862	1 unit	20.000	C	8MF3 862	1 unit	20.000		
	5	C	8MC3 863	1 unit	20.000	C	8MF3 863	1 unit	20.000		
2000	2	C	8MC3 865	1 unit	20.000	C	8MF3 865	1 unit	20.000		
	3	C	8MC3 866	1 unit	20.000	C	8MF3 866	1 unit	20.000		
	4	C	8MC3 867	1 unit	20.000	C	8MF3 867	1 unit	20.000		
	5	C	8MC3 868	1 unit	20.000	C	8MF3 868	1 unit	20.000		
2200	2	C	8MC3 870	1 unit	20.000	C	8MF3 870	1 unit	20.000		
	3	C	8MC3 871	1 unit	20.000	C	8MF3 871	1 unit	20.000		
	4	C	8MC3 872	1 unit	20.000	C	8MF3 872	1 unit	20.000		
	5	C	8MC3 873	1 unit	20.000	C	8MF3 873	1 unit	20.000		
Cubicle width 900 mm											
1800	2	C	8MC3 960	1 unit	20.000	C	8MF3 960	1 unit	20.000		
	3	C	8MC3 961	1 unit	20.000	C	8MF3 961	1 unit	20.000		
	4	C	8MC3 962	1 unit	20.000	C	8MF3 962	1 unit	20.000		
	5	C	8MC3 963	1 unit	20.000	C	8MF3 963	1 unit	20.000		
2000	2	C	8MC3 965	1 unit	20.000	C	8MF3 965	1 unit	20.000		
	3	C	8MC3 966	1 unit	20.000	C	8MF3 966	1 unit	20.000		
	4	C	8MC3 967	1 unit	20.000	C	8MF3 967	1 unit	20.000		
	5	C	8MC3 968	1 unit	20.000	C	8MF3 968	1 unit	20.000		
2200	2	C	8MC3 970	1 unit	20.000	C	8MF3 970	1 unit	20.000		
	3	C	8MC3 971	1 unit	20.000	C	8MF3 971	1 unit	20.000		
	4	C	8MC3 972	1 unit	20.000	C	8MF3 972	1 unit	20.000		
	5	C	8MC3 973	1 unit	20.000	C	8MF3 973	1 unit	20.000		

Other divisions and compartment door heights on request.

Glass door in place of a standard door (8MC2 system cubicles only)

Whereas a standard door with glazed cut-out (see Customizing of Enclosure Parts) still conceals the edge sections of the cubicle installations, a full-glass door provides an unhindered view into the interior of the system cubicle. Glass doors are supplied as follows:

- Door with left-hand hinges,
- Anodized aluminum frame with 3 mm Macrolon glass,
- Espagnolette lock
- 180° hinges

Other versions (e.g. right-hand hinges) on request.

Cubicle height mm	Door width mm	DT	For 8MC2 cubicles		PS*	Weight per unit, approx.	DT	For 8MF cubicles		PS*	Weight per unit, approx.
			Order No.	kg				Order No.	kg		
1800	600	D	8MC3 080	1 unit	30.000	-					
	800	D	8MC3 081	1 unit	30.000	-					
	900	D	8MC3 082	1 unit	30.000	-					
2000	600	D	8MC3 085	1 unit	30.000	-					
	800	D	8MC3 086	1 unit	30.000	-					
	900	D	8MC3 087	1 unit	30.000	-					
2200	600	D	8MC3 090	1 unit	30.000	-					
	800	D	8MC3 091	1 unit	30.000	-					
	900	D	8MC3 092	1 unit	30.000	-					



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Cubicle Modifications

Front Enclosure Parts / Locking

Instrument cover and guard bar in place of a standard door (8MF system cubicles only)

For open system cubicles, we offer instrument covers in various heights. These covers are supplied in two versions:

- screwed to the frame sections or
- as hinged flaps with stay.

For safety, a cross bar is mounted at half-height on the frame as a stumble guard. This bar takes the form of a fiber-glass tube and is available in the colors yellow and red.

Other instrument cover and guard bar dimensions on request. Separate enquiry is necessary if more than one instrument cover is required per cubicle.

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Cover height mm	Cubicle width mm	DT	For 8MC ¹⁾ cubicles		PS*	Weight per unit, approx.	DT	For 8MF cubicles		PS*	Weight per unit, approx.
			Order No.	kg				Order No.	kg		
Cover, fixed, with guard bar, degree of protection IP00											
200	600	-			C	8MF3 010	1	1 unit	0.100		
	800	-			C	8MF3 011	1	unit	0.100		
	900	-			C	8MF3 012	1	unit	0.100		
	1000	-			C	8MF3 013	1	unit	0.100		
	1200	-			C	8MF3 014	1	unit	0.100		
300	600	-			C	8MF3 020	1	unit	0.100		
	800	-			C	8MF3 021	1	unit	0.100		
	900	-			C	8MF3 022	1	unit	0.100		
	1000	-			C	8MF3 023	1	unit	0.100		
	1200	-			C	8MF3 024	1	unit	0.100		
400	600	-			C	8MF3 030	1	unit	0.100		
	800	-			C	8MF3 031	1	unit	0.100		
	900	-			C	8MF3 032	1	unit	0.100		
	1000	-			C	8MF3 033	1	unit	0.100		
	1200	-			C	8MF3 034	1	unit	0.100		
Cover, hinged with stay and guard bar, degree of protection IP00											
200	600	-			C	8MF3 015	1	unit	0.100		
	800	-			C	8MF3 016	1	unit	0.100		
	900	-			C	8MF3 017	1	unit	0.100		
	1000	-			C	8MF3 018	1	unit	0.100		
	1200	-			C	8MF3 006	1	unit	0.100		
300	600	-			C	8MF3 025	1	unit	0.100		
	800	-			C	8MF3 026	1	unit	0.100		
	900	-			C	8MF3 027	1	unit	0.100		
	1000	-			C	8MF3 028	1	unit	0.100		
	1200	-			C	8MF3 007	1	unit	0.100		
400	600	-			C	8MF3 035	1	unit	0.100		
	800	-			C	8MF3 036	1	unit	0.100		
	900	-			C	8MF3 037	1	unit	0.100		
	1000	-			C	8MF3 038	1	unit	0.100		
	1200	-			C	8MF3 008	1	unit	0.100		

1) for 8MC cubicles on request.

Cubicle Modifications

Rear Enclosure Parts / Locking

Selection and ordering data

Standard door in place of a standard rear panel

If rear access to the system cubicle is necessary, it is possible to replace the rear panel with a door. The door for cubicle widths 600, 800 and 900 mm is a single-wing door, from 1000 mm a double-wing door.



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If a door with left-hand hinges is required, add the suffix "-Z" to the Order No. and "left-hand hinge" to the text.

For cubicle modifications for ventilation, see "Ventilation Slots/Ventilation Gills" and "Roof Panels for Ventilation".

Cubicle height mm	Door width mm	DT	For 8MC2 cubicles			PS*	Weight per unit, approx. kg	DT	For 8MF cubicles			PS*	Weight per unit, approx. kg
Degree of protection IP40													
1800	600	C	8MC3 200			1 unit	15.000	C	8MF3 200			1 unit	15.000
	800	C	8MC3 201			1 unit	15.000	C	8MF3 201			1 unit	15.000
	900	C	8MC3 202			1 unit	15.000	C	8MF3 202			1 unit	15.000
	1000	C	8MC3 203			1 unit	15.000	C	8MF3 203			1 unit	15.000
	1200	C	8MC3 204			1 unit	15.000	C	8MF3 204			1 unit	15.000
2000	600	C	8MC3 206			1 unit	15.000	C	8MF3 206			1 unit	15.000
	800	C	8MC3 207			1 unit	15.000	C	8MF3 207			1 unit	15.000
	900	C	8MC3 208			1 unit	15.000	C	8MF3 208			1 unit	15.000
	1000	C	8MC3 210			1 unit	15.000	C	8MF3 210			1 unit	15.000
	1200	C	8MC3 211			1 unit	15.000	C	8MF3 211			1 unit	15.000
2200	600	C	8MC3 212			1 unit	15.000	C	8MF3 212			1 unit	15.000
	800	C	8MC3 213			1 unit	15.000	C	8MF3 213			1 unit	15.000
	900	C	8MC3 214			1 unit	15.000	C	8MF3 214			1 unit	15.000
	1000	C	8MC3 215			1 unit	15.000	C	8MF3 215			1 unit	15.000
	1200	C	8MC3 216			1 unit	15.000	C	8MF3 216			1 unit	15.000
Degree of protection IP54													
1800	600	C	8MC3 220			1 unit	15.000	C	8MF3 220			1 unit	15.000
	800	C	8MC3 221			1 unit	15.000	C	8MF3 221			1 unit	15.000
	900	C	8MC3 222			1 unit	15.000	C	8MF3 222			1 unit	15.000
	1000	C	8MC3 223			1 unit	15.000	C	8MF3 223			1 unit	15.000
	1200	C	8MC3 224			1 unit	15.000	C	8MF3 224			1 unit	15.000
2000	600	C	8MC3 226			1 unit	15.000	C	8MF3 226			1 unit	15.000
	800	C	8MC3 227			1 unit	15.000	C	8MF3 227			1 unit	15.000
	900	C	8MC3 228			1 unit	15.000	C	8MF3 228			1 unit	15.000
	1000	C	8MC3 230			1 unit	15.000	C	8MF3 230			1 unit	15.000
	1200	C	8MC3 231			1 unit	15.000	C	8MF3 231			1 unit	15.000
2200	600	C	8MC3 232			1 unit	15.000	C	8MF3 232			1 unit	15.000
	800	C	8MC3 233			1 unit	15.000	C	8MF3 233			1 unit	15.000
	900	C	8MC3 234			1 unit	15.000	C	8MF3 234			1 unit	15.000
	1000	C	8MC3 235			1 unit	15.000	C	8MF3 235			1 unit	15.000
	1200	C	8MC3 236			1 unit	15.000	C	8MF3 236			1 unit	15.000

Symmetrically divided double-wing door in place of a rear panel

In the same way as for the front enclosure, a symmetrically divided double-wing door can also be ordered for the rear of the cubicle. If a double-wing door with left-hand locking is required, add the suffix "-Z" to the Order No. and "left-hand locking" to the text.

For cubicle modifications for ventilation, see "Ventilation Slots/Ventilation Gills" and "Roof Panels for Ventilation".



Cubicle height mm	Door width mm	DT	For 8MC2 cubicles			PS*	Weight per unit, approx. kg	DT	For 8MF cubicles			PS*	Weight per unit, approx. kg
Degree of protection IP40													
1800	800	C	8MC3 240			1 unit	25.000	C	8MF3 240			1 unit	25.000
	900	C	8MC3 241			1 unit	25.000	C	8MF3 241			1 unit	25.000
2000	800	C	8MC3 242			1 unit	25.000	C	8MF3 242			1 unit	25.000
	900	C	8MC3 243			1 unit	25.000	C	8MF3 243			1 unit	25.000
2200	800	C	8MC3 244			1 unit	25.000	C	8MF3 244			1 unit	25.000
	900	C	8MC3 245			1 unit	25.000	C	8MF3 245			1 unit	25.000
Degree of protection IP54													
1800	800	C	8MC3 246			1 unit	25.000	C	8MF3 246			1 unit	25.000
	900	C	8MC3 247			1 unit	25.000	C	8MF3 247			1 unit	25.000
2000	800	C	8MC3 248			1 unit	25.000	C	8MF3 248			1 unit	25.000
	900	C	8MC3 250			1 unit	25.000	C	8MF3 250			1 unit	25.000
2200	800	C	8MC3 251			1 unit	25.000	C	8MF3 251			1 unit	25.000
	900	C	8MC3 252			1 unit	25.000	C	8MF3 252			1 unit	25.000

Cubicle Modifications

Rear Enclosure Parts / Locking

Asymmetrically divided double-wing door in place of a rear panel

In the same way as for the front enclosure, an asymmetrically divided double-wing door can also be ordered for the rear of the cubicle. If a double-wing door with left-hand locking is required, add the suffix "-Z" to the Order No. and "left-hand locking" to the text.

Other divisions on request. For cubicle modifications for ventilation, see "Ventilation Slots/Ventilation Gills" and "Roof Panels for Ventilation".



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Cubicle height mm	Door width mm	DT	For 8MC2 cubicles			PS*	Weight per unit, approx.	DT	For 8MF cubicles			PS*	Weight per unit, approx.
			Order No.	kg	Order No.				kg				
Degree of protection IP40													
1800	800	C	8MC3 253	1 unit	25.000	C	8MF3 253	1 unit	25.000				
	900	C	8MC3 254	1 unit	25.000	C	8MF3 254	1 unit	25.000				
	1000	C	8MC3 255	1 unit	25.000	C	8MF3 255	1 unit	25.000				
	1200	C	8MC3 256	1 unit	25.000	C	8MF3 3256	1 unit	25.000				
2000	800	C	8MC3 257	1 unit	25.000	C	8MF3 257	1 unit	25.000				
	900	C	8MC3 258	1 unit	25.000	C	8MF3 258	1 unit	25.000				
	1000	C	8MC3 321	1 unit	25.000	C	8MF3 321	1 unit	25.000				
	1200	C	8MC3 322	1 unit	25.000	C	8MF3 322	1 unit	25.000				
2200	800	C	8MC3 323	1 unit	25.000	C	8MF3 323	1 unit	25.000				
	900	C	8MC3 324	1 unit	25.000	C	8MF3 324	1 unit	25.000				
	1000	C	8MC3 325	1 unit	25.000	C	8MF3 325	1 unit	25.000				
	1200	C	8MC3 326	1 unit	25.000	C	8MF3 326	1 unit	25.000				
Degree of protection IP54													
1800	800	C	8MC3 327	1 unit	25.000	C	8MF3 327	1 unit	25.000				
	900	C	8MC3 328	1 unit	25.000	C	8MF3 328	1 unit	25.000				
	1000	C	8MC3 330	1 unit	25.000	C	8MF3 330	1 unit	25.000				
	1200	C	8MC3 331	1 unit	25.000	C	8MF3 331	1 unit	25.000				
2000	800	C	8MC3 332	1 unit	25.000	C	8MF3 332	1 unit	25.000				
	900	C	8MC3 333	1 unit	25.000	C	8MF3 333	1 unit	25.000				
	1000	C	8MC3 334	1 unit	25.000	C	8MF3 334	1 unit	25.000				
	1200	C	8MC3 335	1 unit	25.000	C	8MF3 335	1 unit	25.000				
2200	800	C	8MC3 336	1 unit	25.000	C	8MF3 336	1 unit	25.000				
	900	C	8MC3 337	1 unit	25.000	C	8MF3 337	1 unit	25.000				
	1000	C	8MC3 338	1 unit	25.000	C	8MF3 338	1 unit	25.000				
	1200	C	8MC3 340	1 unit	25.000	C	8MF3 340	1 unit	25.000				

Door handles

The handles and lock inserts listed here can be ordered for the standard door and for symmetrically or asymmetrically divided double-wing doors. The system cubicle can be fitted with the

most varied handle variants to maximize user convenience.



Type	Lock	DT	For 8MC2 cubicles			PS*	Weight per unit, approx.	DT	For 8MF cubicles			PS*	Weight per unit, approx.
mm	mm	Order No.	kg	Order No.	kg	kg	Order No.	kg	kg	Order No.	kg	kg	
Large T-handle	without	C	8MC3 310	1 unit	0.160	C	8MF3 310	1 unit	0.300				
Small T-handle	with	C	8MC3 311	1 unit	0.160	C	8MF3 311	1 unit	0.300				
Latch handle	without	C	8MC3 312	1 unit	0.160	C	8MF3 312	1 unit	0.300				
Wing handle	without	C	8MC3 313	1 unit	0.225	C	8MF3 313	1 unit	0.200				
Wing handle	with	C	8MC3 314	1 unit	0.300	C	8MF3 314	1 unit	0.200				

Further lock systems and handles on request.

Lock insert/actuator pin in place of a double-bit key with 3 mm pin

Type	Size	DT	For 8MC2 cubicles			PS*	Weight per unit, approx.	DT	For 8MF cubicles			PS*	Weight per unit, approx.
mm	mm	Order No.	kg	Order No.	kg	kg	Order No.	kg	kg	Order No.	kg	kg	
■ Square	6	C	8MC3 300	1 unit	0.001	C	8MF3 300	1 unit	0.250				
	7	C	8MC3 301	1 unit	0.001	C	8MF3 301	1 unit	0.250				
	8	C	8MC3 302	1 unit	0.001	C	8MF3 302	1 unit	0.250				
▲ Triangular	7	C	8MC3 303	1 unit	0.001	C	8MF3 303	1 unit	0.250				
	8	C	8MC3 304	1 unit	0.001	C	8MF3 304	1 unit	0.250				
Double-bit key	5	C	8MC3 305	1 unit	0.001	C	8MF3 305	1 unit	0.250				
Daimler-Benz insert		C	8MC3 306	1 unit	0.001	-							

* You can order this quantity or a multiple thereof.

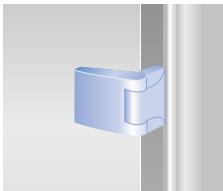
Cubicle Modifications

Rear Enclosure Parts / Locking

Hinges (8MC2 system cubicles only)

The hinges listed here can be ordered for the standard door and for symmetrically or asymmetrically divided double-wing doors. The standard 180° hinges permit an opening angle of approx.

135° for cubicles installed in a suite. The optional 270° hinges permit an opening angle of 270° for single cubicles or 180° for the doors of cubicles in a suite.

Designation	DT	For 8MC2 cubicles		PS*	Weight per unit, approx.	LK	For 8MF cubicles		PS*	Weight per unit, approx.
		Order No.	kg				Order No.	kg		
 270° hinges (1 set = 3 hinges per door wing)	C	8MC3 320		1 set	0.100	-				

Trim strip (8MF system cubicles only)

Design	Signaling light cut-out	DT	For 8MC2 cubicles		PS*	Weight per unit, approx.	DT	For 8MF cubicles		PS*	Weight per unit, approx.
			Order No.	kg				Order No.	kg		
Trim strip, petrol blue											
with Siemens lettering	right	-			C	8MF3 350		1 unit	0.100		
	left	-			C	8MF3 351		1 unit	0.100		
without Siemens lettering	none	-			C	8MF3 352		1 unit	0.100		
	right	-			C	8MF3 353		1 unit	0.100		
	left	-			C	8MF3 354		1 unit	0.100		
Trim strip, umbra											
with Siemens lettering	none	-			C	8MF3 355		1 unit	0.100		
	right	-			C	8MF3 356		1 unit	0.100		
	left	-			C	8MF3 357		1 unit	0.100		
without Siemens lettering	none	-			C	8MF3 358		1 unit	0.100		
	right	-			C	8MF3 360		1 unit	0.100		
	left	-			C	8MF3 361		1 unit	0.100		
Trim strip, ochre											
with Siemens lettering	none	-			C	8MF3 362		1 unit	0.100		
	right	-			C	8MF3 363		1 unit	0.100		
	left	-			C	8MF3 364		1 unit	0.100		
without Siemens lettering	none	-			C	8MF3 365		1 unit	0.100		
	right	-			C	8MF3 366		1 unit	0.100		
	left	-			C	8MF3 367		1 unit	0.100		

Cubicle Modifications

Roof Panels

Selection and ordering data

Roof panel for cable entry in place of a standard closed roof panel

A rectangular cut-out (with an angled panel fold along the rear edge) enables cables to be routed into the cubicle. With the aid of a similarly angled slide plate, the remaining gap can be closed down to the maximum cable diameter.

This optional roof panel (without routed cables) provides protection to IP40. If a higher degree of protection is required, it is recommended to incorporate a foam rubber profile or else to foam out the remaining gap.

3

Cubicle width mm	Cubicle depth mm	DT	For 8MC2 cubicles			PS*	Weight per unit, approx. kg	DT	For 8MF cubicles			PS*	Weight per unit, approx. kg
			Order No.						Order No.				
Degree of protection IP40													
600	400	C	8MC3 480			1 unit	1.000	C	8MF3 480			1 unit	1.000
600	600	C	8MC3 481			1 unit	1.000	C	8MF3 481			1 unit	1.000
800	400	C	8MC3 482			1 unit	1.000	C	8MF3 482			1 unit	1.000
800	600	C	8MC3 485			1 unit	1.000	C	8MF3 485			1 unit	1.000
800	800	C	8MC3 486			1 unit	1.000	C	8MF3 486			1 unit	1.000
800	800	C	8MC3 487			1 unit	1.000	C	8MF3 487			1 unit	1.000
900	400	C	8MC3 490			1 unit	1.000	C	8MF3 490			1 unit	1.000
900	600	C	8MC3 491			1 unit	1.000	C	8MF3 491			1 unit	1.000
900	800	C	8MC3 492			1 unit	1.000	C	8MF3 492			1 unit	1.000
1000	400	C	8MC3 493			1 unit	1.000	C	8MF3 493			1 unit	1.000
1000	600	C	8MC3 494			1 unit	1.000	C	8MF3 494			1 unit	1.000
1000	800	C	8MC3 495			1 unit	1.000	C	8MF3 495			1 unit	1.000
1200	400	C	8MC3 496			1 unit	1.000	C	8MF3 496			1 unit	1.000
1200	600	C	8MC3 497			1 unit	1.000	C	8MF3 497			1 unit	1.000
1200	800	C	8MC3 498			1 unit	1.000	C	8MF3 498			1 unit	1.000



Foam rubber profile

The foam rubber profile serves as a seal for cubicle cable entry cut-outs. It is provided with adhesive tape on one side.

Description	Length mm	DT	For 8MC2 cubicles			PS*	Weight per unit, approx. kg	DT	For 8MF cubicles			PS*	Weight per unit, approx. kg
			Order No.						Order No.				
Foam rubber 20 x 20	1000	C	8MC3 500			1 unit	0.025	C	8MF3 500			1 unit	0.025

Cubicle Modifications

Roof Panels

Roof panel to accommodate busbars in place of a standard closed roof panel

Where it is necessary to mount busbars on the top of system cubicle frame, e.g. for space reasons, this roof panel variant serves as an ideal cover.

The cubicle height is increased by 200 mm.

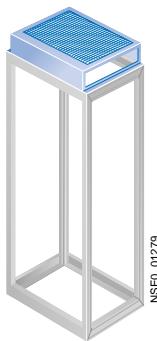
The clear passage provided for the busbars is:

Height = 170 mm

Depth = Cubicle depth minus 70 mm.

The panel is perforated in the area of the busbars to permit heat dissipation. The degree of protection provided is IP20..

Cubicle width mm	Cubicle depth mm	DT	For 8MC2 cubicles		PS*	Weight per unit, approx. kg	DT	For 8MF cubicles		PS*	Weight per unit, approx. kg
			Order No.	kg				Order No.	kg		
Degree of protection IP20											
600	600	C	8MC3 510		1 unit	5.000	C	8MF3 510		1 unit	5.000
	800	C	8MC3 511		1 unit	5.000	C	8MF3 511		1 unit	5.000
800	600	C	8MC3 513		1 unit	5.000	C	8MF3 513		1 unit	5.000
	800	C	8MC3 514		1 unit	5.000	C	8MF3 514		1 unit	5.000
900	600	C	8MC3 516		1 unit	5.000	C	8MF3 516		1 unit	5.000
	800	C	8MC3 517		1 unit	5.000	C	8MF3 517		1 unit	5.000
1000	600	C	8MC3 518		1 unit	5.000	C	8MF3 518		1 unit	5.000
	800	C	8MC3 520		1 unit	5.000	C	8MF3 520		1 unit	5.000
1200	600	C	8MC3 521		1 unit	5.000	C	8MF3 521		1 unit	5.000
	800	C	8MC3 522		1 unit	5.000	C	8MF3 522		1 unit	5.000



Side cover panel for busbar roofs

This cover panel serves to prevent impermissible or accidental contact with the busbars. The same cover panel must be fitted on both sides of the roof.

Cubicle depth mm	DT	For 8MC2 cubicles		PS*	Weight per unit, approx. kg	DT	For 8MF cubicles		PS*	Weight per unit, approx. kg
		Order No.	kg				Order No.	kg		
Degree of protection IP20										
600	C	8MC3 527		1 unit	1.230	C	8MF3 527		1 unit	1.230
800	C	8MC3 528		1 unit	1.690	C	8MF3 528		1 unit	1.690



Other versions on request.

Cubicle Modifications

Ventilation Slots / Ventilation Gills

Overview

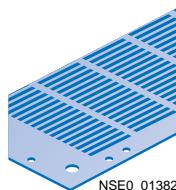
In the case of open system cubicles, natural convection provides for heat dissipation. The vast majority of the heat is removed by the external air flowing through the cubicle.

To this end, the cubicle must be fitted with a perforated roof panel or a ventilation roof. Attention is drawn to the special design (SBL) of the ventilation slots in the door and in the roof panel. These slots can be supplied for degrees of protection IP30 and IP40.

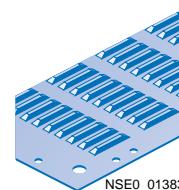
In the past, ventilation slots for degree of protection IP40 were backed up with an additional frame and fine-meshed grille. This is no longer necessary.

The existing ventilation slots for 8MC and 8MF system cubicles with degrees of protection IP20 and IP40, together with the corresponding roof panel, can still be supplied. Perforation in "Masterdrive" design similarly remains available.

Ventilation slots



Ventilation gills



Selection and ordering data

8MC ventilation slots (45 x 4 mm)

Cubicle door width mm	Ventilation cross-section per row of ventilation slots cm ²
600	90
800	133
900	155
1000	176
1200	180



1) Backed with a frame and fine-meshed grille to increase the degree of protection to IP40.

8MF ventilation slots (75 x 8 mm)

Cubicle door width mm	Ventilation cross-section per row of ventilation slots cm ²
600	120
800	180
900	210
1000	216
1200	240



1) Backed with a frame and fine-meshed grille to increase the degree of protection to IP40.

8MF ventilation with "Masterdrive" perforation (25 x 7.5 mm)

Cubicle door width mm	Ventilation cross-section per row of ventilation slots cm ²
600	1913
800	2662
900	3000
1000	3075
1200	3826



Ventilation gills (SBL)

Dimensions mm	Sheet steel thickness mm
IP23	
60 x 12 x 5	1.5
80 x 12 x 5	1.5
IP33	
80 x 12 x 4	1.5



Cubicle Modifications

Roof Panels for Ventilation

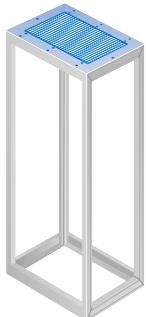
Selection and ordering data

Perforated roof panel in place of a standard closed roof panel

The simplest method to dissipate the heat arising in a cubicle is to provide openings in the roof panel. If the degree of protection IP20 is to be achieved, no solid objects with a diameter > 12 mm must be able to penetrate into the cubicle. In the

open area left by the frame, our perforated roof panel possess 8 x 8 mm holes in a 10 mm grid. In the version for degree of protection IP40, an additional fine-meshed grille is integrated below the holes.

Cubicle width mm	Cubicle depth mm	Effective ventilation cross-section cm ²	DT	For 8MC2 cubicles			DT	For 8MF cubicles			PS*	Weight per unit, approx. kg
				Order No.	kg	Order No.		kg				
Degree of protection IP20												
600	400	610	C	8MC3 400	1 unit	0.100	C	8MF3 400	1 unit	0.100		
600	1230		C	8MC3 401	1 unit	0.100	C	8MF3 401	1 unit	0.100		
800	1840		C	8MC3 402	1 unit	0.100	C	8MF3 402	1 unit	0.100		
800	400	870	C	8MC3 405	1 unit	0.100	C	8MF3 405	1 unit	0.100		
600	1740		C	8MC3 406	1 unit	0.100	C	8MF3 406	1 unit	0.100		
800	2610		C	8MC3 407	1 unit	0.100	C	8MF3 407	1 unit	0.100		
900	400	1000	C	8MC3 410	1 unit	0.100	C	8MF3 410	1 unit	0.100		
600	2000		C	8MC3 411	1 unit	0.100	C	8MF3 411	1 unit	0.100		
800	3000		C	8MC3 412	1 unit	0.100	C	8MF3 412	1 unit	0.100		
1000	400	1120	C	8MC3 413	1 unit	0.100	C	8MF3 413	1 unit	0.100		
600	2250		C	8MC3 414	1 unit	0.100	C	8MF3 414	1 unit	0.100		
800	3380		C	8MC3 415	1 unit	0.100	C	8MF3 415	1 unit	0.100		
1200	400	1380	C	8MC3 416	1 unit	0.100	C	8MF3 416	1 unit	0.100		
600	2760		C	8MC3 417	1 unit	0.100	C	8MF3 417	1 unit	0.100		
800	4150		C	8MC3 418	1 unit	0.100	C	8MF3 418	1 unit	0.100		
Degree of protection IP40												
600	400	360	C	8MC3 420	1 unit	0.100	C	8MF3 420	1 unit	0.100		
600	710		C	8MC3 421	1 unit	0.100	C	8MF3 421	1 unit	0.100		
800	1070		C	8MC3 422	1 unit	0.100	C	8MF3 422	1 unit	0.100		
800	400	500	C	8MC3 425	1 unit	0.100	C	8MF3 425	1 unit	0.100		
600	1010		C	8MC3 426	1 unit	0.100	C	8MF3 426	1 unit	0.100		
800	1510		C	8MC3 427	1 unit	0.100	C	8MF3 427	1 unit	0.100		
900	400	580	C	8MC3 430	1 unit	0.100	C	8MF3 430	1 unit	0.100		
600	1160		C	8MC3 431	1 unit	0.100	C	8MF3 431	1 unit	0.100		
800	1740		C	8MC3 432	1 unit	0.100	C	8MF3 432	1 unit	0.100		
1000	400	650	C	8MC3 433	1 unit	0.100	C	8MF3 433	1 unit	0.100		
600	1300		C	8MC3 434	1 unit	0.100	C	8MF3 434	1 unit	0.100		
800	1950		C	8MC3 435	1 unit	0.100	C	8MF3 435	1 unit	0.100		
1200	400	800	C	8MC3 436	1 unit	0.100	C	8MF3 436	1 unit	0.100		
600	1600		C	8MC3 437	1 unit	0.100	C	8MF3 437	1 unit	0.100		
800	2410		C	8MC3 438	1 unit	0.100	C	8MF3 438	1 unit	0.100		



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Cubicle Modifications

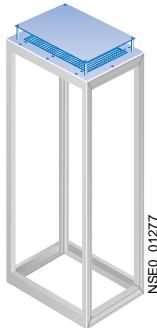
Roof Panels for Ventilation

Perforated ventilation roof in place of a standard closed roof panel

In the case of a ventilation roof, a tray is mounted above the perforated roof panel.

This tray prevents vertically falling water drops from entering the cubicle.

Cubicle width mm	Cubicle depth mm	Effective ventilation cross-section cm ²	DT	For 8MC2 cubicles			PS*	Weight per unit, approx. kg	DT	For 8MF cubicles			PS*	Weight per unit, approx. kg
				Order No.	kg	Order No.				kg				
Degree of protection IP20														
600	400	610	C	8MC3 440	1 unit	10.000	C	8MF3 440	1 unit	10.000				
	600	1230	C	8MC3 441	1 unit	10.000	C	8MF3 441	1 unit	10.000				
	800	1840	C	8MC3 442	1 unit	10.000	C	8MF3 442	1 unit	10.000				
800	400	870	C	8MC3 445	1 unit	10.000	C	8MF3 445	1 unit	10.000				
	600	1740	C	8MC3 446	1 unit	10.000	C	8MF3 446	1 unit	10.000				
	800	2610	C	8MC3 447	1 unit	10.000	C	8MF3 447	1 unit	10.000				
900	400	1000	C	8MC3 450	1 unit	10.000	C	8MF3 450	1 unit	10.000				
	600	2000	C	8MC3 451	1 unit	10.000	C	8MF3 451	1 unit	10.000				
	800	3000	C	8MC3 452	1 unit	10.000	C	8MF3 452	1 unit	10.000				
1000	400	1120	C	8MC3 453	1 unit	10.000	C	8MF3 453	1 unit	10.000				
	600	2250	C	8MC3 454	1 unit	10.000	C	8MF3 454	1 unit	10.000				
	800	3380	C	8MC3 455	1 unit	10.000	C	8MF3 455	1 unit	10.000				
1200	400	1380	C	8MC3 456	1 unit	10.000	C	8MF3 456	1 unit	10.000				
	600	2760	C	8MC3 457	1 unit	10.000	C	8MF3 457	1 unit	10.000				
	800	4150	C	8MC3 458	1 unit	10.000	C	8MF3 458	1 unit	10.000				
Degree of protection IP40														
600	400	360	C	8MC3 460	1 unit	10.000	C	8MF3 460	1 unit	10.000				
	600	710	C	8MC3 461	1 unit	10.000	C	8MF3 461	1 unit	10.000				
	800	1070	C	8MC3 462	1 unit	10.000	C	8MF3 462	1 unit	10.000				
800	400	500	C	8MC3 465	1 unit	10.000	C	8MF3 465	1 unit	10.000				
	600	1010	C	8MC3 466	1 unit	10.000	C	8MF3 466	1 unit	10.000				
	800	1510	C	8MC3 467	1 unit	10.000	C	8MF3 467	1 unit	10.000				
900	400	580	C	8MC3 470	1 unit	10.000	C	8MF3 470	1 unit	10.000				
	600	1160	C	8MC3 471	1 unit	10.000	C	8MF3 471	1 unit	10.000				
	800	1740	C	8MC3 472	1 unit	10.000	C	8MF3 472	1 unit	10.000				
1000	400	650	C	8MC3 473	1 unit	10.000	C	8MF3 473	1 unit	10.000				
	600	1300	C	8MC3 474	1 unit	10.000	C	8MF3 474	1 unit	10.000				
	800	1950	C	8MC3 475	1 unit	10.000	C	8MF3 475	1 unit	10.000				
1200	400	800	C	8MC3 476	1 unit	10.000	C	8MF3 476	1 unit	10.000				
	600	1600	C	8MC3 477	1 unit	10.000	C	8MF3 477	1 unit	10.000				
	800	2410	C	8MC3 478	1 unit	10.000	C	8MF3 478	1 unit	10.000				



NSE0_01277

Cubicle Modifications

Customizing of Enclosure Parts

Overview

The customizing of enclosure parts for cubicles is one of our major strengths. Depending on the required degree of protection,

Ordering examples for the customizing of enclosure parts

Example 1

An 8MF cubicle (8MF2266-4R) with degree of protection IP20 could be customized as follows:

- Door with 6 rows of 8MF ventilation slots at the bottom, four cut-outs for measuring instruments and three holes for command devices, and
- Perforated or ventilation roof panel.

This would require the following order:

Item	Description	Qty.	Order No.
1.1	Cubicle	1	8MF2 266-4R
1.2	Customizing - basic price for door	1	
1.3	Rows of ventilation slots, IP20 6x per row	6	
1.4	Rectangular cut-out, small	4	
1.5	Single hole	3	
1.6	Perforated ventilation roof in IP20 in place of a standard roof panel	1	8MF3 441

For ventilation cross-section of 8MF ventilation slots, see "Ventilation Slots/Ventilation Gills".

Overall height of 8MF cubicle mm	Max. possible number of rows of 8MF ventilation slots
1800	15
2000	17
2200	19

Ventilation variants

Row of ventilation slots for 8MC/8MF, cubicle door, rear panel (Basic price per part, see Price List)	Width mm
Ventilation slots in IP20	500 600 800 900
Ventilation slots in IP40	500 600 800 900
SBL ventilation slots in IP30	500 600 800 900
SBL ventilation slots in IP40	500 600 800 900
Ventilation slots in Masterdrive perforation in IP20	500 600 800 900

ventilation slots or gills can be incorporated directly into doors or side/rear panels.

Example 2

An 8MC cubicle (8MC2266-4R) with degree of protection IP40 could be customized as follows:

- Door with 5 rows of 8MC ventilation slots with fine-meshed backing grille (IP40) at the bottom, four cut-outs for measuring instruments and three holes for command devices, and
- Perforated or ventilation roof panel.

This would require the following order:

Item	Description	Qty.	Order No.
1.1	Cubicle	1	8MC2 266-4R
1.2	Customizing - basic price for door	1	
1.3	Rows of ventilation slots, IP40 5 x per row	5	
1.4	Rectangular cut-out, small	4	
1.5	Single hole	3	
1.6	Perforated ventilation roof in IP40 in place of a standard roof panel	1	8MC3 461

For ventilation cross-section of 8MC ventilation slots, see "Ventilation Slots/Ventilation Gills".

Row of ventilation slots for 8MC/8MF, cubicle door, rear panel (Basic price per part, see Price List)	Dimensions
SBL ventilation gills in IP23	60 x 12 x 5 80 x 12 x 5
SBL ventilation gills in IP33	80 x 12 x 4
Holes/cut-outs/bolts (Basic price per part, see Price List)	Dimensions
Single hole	
• small; round/square	up to 30 mm
• large; round/square	over 30 mm
Rectangular cut-outs	
• small	Sum of height and width < 0.5 m
• large	Sum of height and width > 0.5 m
• with inspection pane	Sum of height and width < 0.5 m
• with Plexiglas insert	Sum of height and width > 0.5 m
• for connector carrier (Harting connectors)	• 40 mm x 108 mm (with Plexiglas insert, Ø 3.5 mm)
Bolts	
• additional welding bolt	M6 x 20 mm or M4 x 10 mm

4

Cubicle Expansion



4/2	Base Parts/Base Plates
4/4	Side Enclosure Parts
4/5	Mounted Windows and Door Expansion
4/7	Transport Aids
4/8	Interior Expansion
4/11	Installation Plates
4/15	Shelves and Telescopic Rails
4/16	19-inch Installations

Cubicle Expansion

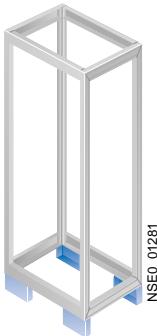
Base Parts/Base Plates

Selection and ordering data

Feet

Feet enable the cubicle to be installed at a slightly raised height.

Design	DT	For 8MC2 cubicles		PS*	Weight per unit, approx.	DT	For 8MF cubicles		PS*	Weight per unit, approx.
		Order No.	kg				Order No.	kg		
Height = 100 mm. Feet are supplied in RAL 7022 (1 set = 4 feet)	C	8MC4 050		1 set	1.040	C	8MF4 050		1 set	1.040



Transport castors

Please enquire.

Plinth

A plinth increases the floor clearance of the cubicle and simplifies cable entry and routing. Removal of the side cover panels

permits cables to be routed between cubicles in an interconnected suite. Plinths are supplied in RAL 7022.

Cubicle width	Cubicle depth	DT	For 8MC2 cubicles		PS*	Weight per unit, approx.	DT	For 8MF cubicles		PS*	Weight per unit, approx.
mm	mm		Order No.			kg		Order No.			kg
Plinth height 100 mm											
600	400	C	8MC4 010		1 unit	7.100	C	8MF4 010		1 unit	7.100
600	400	C	8MC4 011		1 unit	8.000	C	8MF4 011		1 unit	8.000
800	400	C	8MC4 012		1 unit	8.800	C	8MF4 012		1 unit	8.800
800	400	C	8MC4 015		1 unit	8.000	C	8MF4 015		1 unit	8.000
600	400	C	8MC4 016		1 unit	8.800	C	8MF4 016		1 unit	8.800
800	400	C	8MC4 017		1 unit	9.600	C	8MF4 017		1 unit	9.600
900	400	C	8MC4 020		1 unit	8.200	C	8MF4 020		1 unit	8.200
600	400	C	8MC4 021		1 unit	9.200	C	8MF4 021		1 unit	9.200
800	400	C	8MC4 022		1 unit	10.000	C	8MF4 022		1 unit	10.000
1000	400	C	8MC4 023		1 unit	7.420	C	8MF4 023		1 unit	7.420
600	400	C	8MC4 024		1 unit	8.210	C	8MF4 024		1 unit	8.120
800	400	C	8MC4 025		1 unit	8.980	C	8MF4 025		1 unit	8.980
1200	400	C	8MC4 026		1 unit	8.210	C	8MF4 026		1 unit	8.120
600	400	C	8MC4 027		1 unit	9.000	C	8MF4 027		1 unit	9.000
800	400	C	8MC4 028		1 unit	9.760	C	8MF4 028		1 unit	9.760
Plinth height 200 mm											
600	400	C	8MC4 030		1 unit	11.500	C	8MF4 030		1 unit	11.500
600	400	C	8MC4 031		1 unit	12.600	C	8MF4 031		1 unit	12.600
800	400	C	8MC4 032		1 unit	14.200	C	8MF4 032		1 unit	14.200
800	400	C	8MC4 035		1 unit	12.600	C	8MF4 035		1 unit	12.600
600	400	C	8MC4 036		1 unit	14.200	C	8MF4 036		1 unit	14.200
800	400	C	8MC4 037		1 unit	15.700	C	8MF4 037		1 unit	15.700
900	400	C	8MC4 040		1 unit	13.400	C	8MF4 040		1 unit	13.400
600	400	C	8MC4 041		1 unit	14.800	C	8MF4 041		1 unit	14.800
800	400	C	8MC4 042		1 unit	16.400	C	8MF4 042		1 unit	16.400
1000	400	C	8MC4 043		1 unit	12.900	C	8MF4 043		1 unit	12.900
600	400	C	8MC4 044		1 unit	14.400	C	8MF4 044		1 unit	14.400
800	400	C	8MC4 045		1 unit	16.000	C	8MF4 045		1 unit	16.000
1200	400	C	8MC4 046		1 unit	15.600	C	8MF4 046		1 unit	15.600
600	400	C	8MC4 047		1 unit	17.500	C	8MF4 047		1 unit	17.500
800	400	C	8MC4 048		1 unit	18.600	C	8MF4 048		1 unit	18.600



Cubicle Expansion

Base Parts/Base Plates

Base plates

If the cubicle is installed on a closed base frame, it achieves degree of protection IP20. The incorporation of a one-piece base plate is able to raise the degree of protection of the cubicle to IP40.

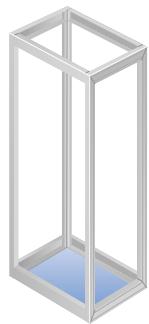
Customer-specific cut-outs (e.g. for screwed glands) permit cable entry from below. Base plates with single or multiple

subdivisions possess degree of protection IP40 (without cable entry). If a higher degree of protection is required, it is recommended to incorporate a foam rubber profile.

Further base plate designs, e.g. base plates for cable entry, on request.

Cubicle width mm	Cubicle depth mm	DT	For 8MC2 cubicles Order No.	PS*	Weight per unit, approx. kg	DT	For 8MF cubicles Order No.	PS*	Weight per unit, approx. kg
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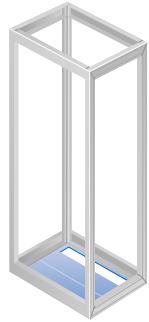
One-piece base plate (standard)



NSEO_01284

600	400	C	8MC4 060	1 unit	2.790	C	8MF4 060	1 unit	2.340
600	600	C	8MC4 061	1 unit	4.200	C	8MF4 061	1 unit	3.750
800	600	C	8MC4 062	1 unit	6.490	C	8MF4 062	1 unit	5.150
800	400	C	8MC4 065	1 unit	3.850	C	8MF4 065	1 unit	3.190
800	600	C	8MC4 066	1 unit	5.740	C	8MF4 066	1 unit	5.080
800	800	C	8MC4 067	1 unit	7.640	C	8MF4 067	1 unit	6.960
900	400	C	8MC4 070	1 unit	4.280	C	8MF4 070	1 unit	3.570
900	600	C	8MC4 071	1 unit	6.400	C	8MF4 071	1 unit	5.690
900	800	C	8MC4 072	1 unit	8.530	C	8MF4 072	1 unit	7.820
1000	400	C	8MC4 073	1 unit	4.760	C	8MF4 073	1 unit	3.940
1000	600	C	8MC4 074	1 unit	7.080	C	8MF4 074	1 unit	6.260
1000	800	C	8MC4 075	1 unit	9.180	C	8MF4 075	1 unit	8.360
1200	400	C	8MC4 076	1 unit	5.630	C	8MF4 076	1 unit	4.290
1200	600	C	8MC4 077	1 unit	8.480	C	8MF4 077	1 unit	7.140
1200	800	C	8MC4 078	1 unit	11.500	C	8MF4 078	1 unit	5.320

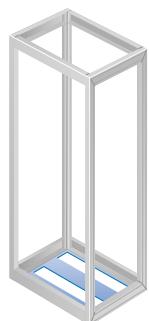
Base plate with single subdivision



NSEO_01285

600	400	C	8MC4 080	1 unit	4.010	C	8MF4 080	1 unit	3.560
600	600	C	8MC4 081	1 unit	5.540	C	8MF4 081	1 unit	5.090
800	600	C	8MC4 082	1 unit	6.990	C	8MF4 082	1 unit	6.540
800	400	C	8MC4 085	1 unit	5.560	C	8MF4 085	1 unit	4.890
800	600	C	8MC4 086	1 unit	7.720	C	8MF4 086	1 unit	7.050
800	800	C	8MC4 087	1 unit	9.600	C	8MF4 087	1 unit	8.930
900	400	C	8MC4 090	1 unit	6.230	C	8MF4 090	1 unit	5.510
900	600	C	8MC4 091	1 unit	8.660	C	8MF4 091	1 unit	7.940
900	800	C	8MC4 092	1 unit	10.700	C	8MF4 092	1 unit	10.000
1000	400	C	8MC4 093	1 unit	6.900	C	8MF4 093	1 unit	6.080
1000	600	C	8MC4 094	1 unit	9.560	C	8MF4 094	1 unit	8.740
1000	800	C	8MC4 095	1 unit	11.800	C	8MF4 095	1 unit	11.000
1200	400	C	8MC4 096	1 unit	8.080	C	8MF4 096	1 unit	5.510
1200	600	C	8MC4 097	1 unit	11.200	C	8MF4 097	1 unit	8.530
1200	800	C	8MC4 098	1 unit	14.100	C	8MF4 098	1 unit	11.300

Base plate with multiple subdivisions



NSEO_01286

600	600	C	8MC4 101	1 unit	5.810	C	8MF4 101	1 unit	6.820
600	800	C	8MC4 102	1 unit	7.620	C	8MF4 102	1 unit	8.960
800	600	C	8MC4 106	1 unit	7.680	C	8MF4 106	1 unit	8.680
800	800	C	8MC4 107	1 unit	10.000	C	8MF4 107	1 unit	11.300
900	600	C	8MC4 111	1 unit	8.620	C	8MF4 111	1 unit	9.610
900	800	C	8MC4 112	1 unit	11.200	C	8MF4 112	1 unit	12.500
1000	600	C	8MC4 114	1 unit	10.000	C	8MF4 114	1 unit	11.000
1000	800	C	8MC4 115	1 unit	12.900	C	8MF4 115	1 unit	14.200
1200	600	C	8MC4 117	1 unit	12.000	C	8MF4 117	1 unit	13.000
1200	800	C	8MC4 118	1 unit	15.400	C	8MF4 118	1 unit	16.800

Foam rubber profile

Description	Length mm	DT	For 8MC2 cubicles Order No.	PS*	Weight per unit, approx. kg	DT	For 8MF cubicles Order No.	PS*	Weight per unit, approx. kg
Foam rubber 20 x 20	1800	C	8MC3 500	1 unit	0.025	C	8MF3 500	1 unit	0.025

* You can order this quantity or a multiple thereof.

Cubicle Expansion

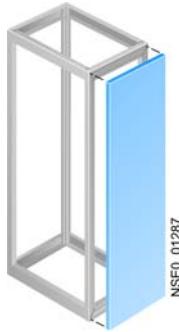
Side Enclosure Parts

Selection and ordering data

Side panels

Side panels serve to complete a cubicle or cubicle suite. If an assembled side panel is ordered, but no side is specified, the

side panel will be assembled on the right-hand side of the cubicle.

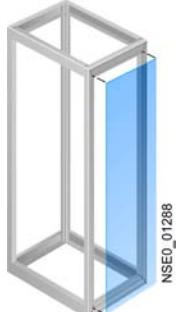


Cubicle height mm	Cubicle depth mm	DT	For 8MC2 cubicles		PS*	Weight per unit, approx. kg	DT	For 8MF cubicles		PS*	Weight per unit, approx. kg
			Order No.					Order No.			
Degree of protection IP40											
1800	400	C	8MC4 120		1 unit	7.810	C	8MF4 120		1 unit	8.400
	600	C	8MC4 121		1 unit	11.900	C	8MF4 121		1 unit	12.600
	800	C	8MC4 122		1 unit	16.100	C	8MF4 122		1 unit	16.800
2000	400	C	8MC4 130		1 unit	8.690	C	8MF4 130		1 unit	9.330
	600	C	8MC4 131		1 unit	13.300	C	8MF4 131		1 unit	28.000
	800	C	8MC4 132		1 unit	17.900	C	8MF4 132		1 unit	37.400
2200	400	C	8MC4 140		1 unit	9.560	C	8MF4 140		1 unit	20.400
	600	C	8MC4 141		1 unit	14.600	C	8MF4 141		1 unit	30.800
	800	C	8MC4 142		1 unit	19.700	C	8MF4 142		1 unit	41.100
Degree of protection IP54											
1800	400	C	8MC4 125		1 unit	7.990	C	8MF4 125		1 unit	8.560
	600	C	8MC4 126		1 unit	12.100	C	8MF4 126		1 unit	12.700
	800	C	8MC4 127		1 unit	16.300	C	8MF4 127		1 unit	17.000
2000	400	C	8MC4 135		1 unit	8.870	C	8MF4 135		1 unit	9.490
	600	C	8MC4 136		1 unit	13.500	C	8MF4 136		1 unit	28.100
	800	C	8MC4 137		1 unit	18.100	C	8MF4 137		1 unit	18.800
2200	400	C	8MC4 145		1 unit	9.740	C	8MF4 145		1 unit	20.600
	600	C	8MC4 146		1 unit	14.800	C	8MF4 146		1 unit	30.900
	800	C	8MC4 147		1 unit	19.900	C	8MF4 147		1 unit	20.700

Partition panels

Partition panels are installed to separate the cubicles within a cubicle suite. If an assembled partition panel is ordered, but no side is specified, the partition panel will be assembled on the left-hand side of the cubicle.

Further partition panel designs, e.g. with cut-outs for plug connectors, cable glands, etc., on request.



Cubicle height mm	Cubicle depth mm	DT	For 8MC2 cubicles		PS*	Weight per unit, approx. kg	DT	For 8MF cubicles		PS*	Weight per unit, approx. kg
			Order No.					Order No.			
1800											
1800	400	C	8MC4 150		1 unit	8.470	C	8MF4 150		1 unit	6.070
	600	C	8MC4 151		1 unit	10.000	C	8MF4 151		1 unit	10.000
	800	C	8MC4 152		1 unit	14.000	C	8MF4 152		1 unit	14.000
2000											
2000	400	C	8MC4 160		1 unit	6.870	C	8MF4 160		1 unit	6.760
	600	C	8MC4 161		1 unit	11.500	C	8MF4 161		1 unit	11.200
	800	C	8MC4 162		1 unit	18.800	C	8MF4 162		1 unit	15.600
2200											
2200	400	C	8MC4 170		1 unit	7.490	C	8MF4 170		1 unit	7.450
	600	C	8MC4 171		1 unit	12.400	C	8MF4 171		1 unit	12.300
	800	C	8MC4 172		1 unit	17.300	C	8MF4 172		1 unit	17.300

Mounted Windows and Door Expansion

Selection and ordering data

Mounted window

Mounted windows can be added to any metal enclosure part. They are supplied as follows:

- anodized aluminum frame with 3 mm acrylic pane
- cylinder (cam) lock (two locks for a door height of more than 600 mm).
- 180° hinge.

The degree of protection is IP54.

[Further versions on request.](#)



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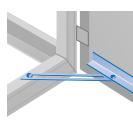
Cubicle height mm	Cubicle depth mm	DT	For 8MC2 cubicles		PS*	Weight per unit, approx.	DT	For 8MF cubicles		PS*	Weight per unit, approx.
			Order No.	kg				Order No.	kg		
500	500	C	8MC4 180	1 unit	5.000	C	8MF4 180	1 unit	5.000		
600	500	C	8MC4 181	1 unit	6.000	C	8MF4 181	1 unit	5.000		
800	500	C	8MC4 182	1 unit	8.000	C	8MF4 182	1 unit	5.000		
1000	500	C	8MC4 183	1 unit	10.000	C	8MF4 183	1 unit	5.000		

Door stay

The door stay holds the door open at 90°.



NSE0_01292



NSE0_01361

Designation	DT	For 8MC2 cubicles		PS*	Weight per unit, approx.	DT	For 8MF cubicles		PS*	Weight per unit, approx.
		Order No.	kg				Order No.	kg		
Door stay for one door wing	C	8MC4 300	1 unit	0.346	C	8MF4 300	1 unit	0.208		

Cubicle Expansion

Mounted Windows and Door Expansion

Circuit drawings pocket

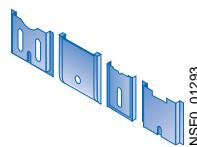
The circuit drawings pocket serves to hold documents to be kept in the cubicle. Four different versions are available:

- A4 upright, depth 30 mm, plastic
- A4 upright, depth 75 mm, galvanized sheet steel
- A4 horizontal, depth 50 mm, galvanized sheet steel

- A3 horizontal, galvanized sheet steel, only for 600 mm doors in conjunction with multi-purpose door bars

Versions 2 and 3 are mounted on additional welding bolts (must be specified when ordering the cubicle). Version 4 is mounted on multi-purpose door bars.

Version	DT	For 8MC2 cubicles		PS*	Weight per unit, approx.	DT	For 8MF cubicles		PS*	Weight per unit, approx.
		Order No.	kg				Order No.	kg		
Plastic	C	8MC4 301	1 unit	0.145	C	8MF4 301	1 unit	0.010		
Sheet steel										
• A4 upright	C	8MC4 302	1 unit	1.470	C	8MF4 302	1 unit	1.470		
• A4 horizontal	C	8MC4 303	1 unit	1.620	C	8MF4 303	1 unit	1.620		
• A3 horizontal	C	8MC4 304	1 unit	2.510	C	8MF4 304	1 unit	2.510		



Door position switch

The door position switch serves to switch the cubicle lighting or any other circuit on and off when the cubicle door is opened and

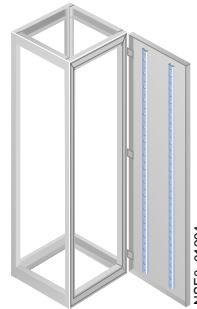
closed. It is supplied mounted on the hinge side of the cubicle.

Version	DT	For 8MC2 cubicles		PS*	Weight per unit, approx.	DT	For 8MF cubicles		PS*	Weight per unit, approx.
		Order No.	kg				Order No.	kg		
single 1 NO + 1 NC contact	C	8MC4 310	1 unit	0.108	C	8MF4 310	1 unit	0.201		
double 1 NO + 2NC contact	C	8MC4 311	1 unit	0.096	C	8MF4 311	1 unit	0.189		

Multi-purpose door bars

The multi-purpose door bars serve both as stiffening bars and as mounting aids for components (cable clamping, cable ducts, etc.) which are to be installed in the door.

Multi-purpose door bar for cubicle height mm	Set pcs.	DT	For 8MC2 cubicles		PS*	Weight per unit, approx.	DT	For 8MF cubicles		PS*	Weight per unit, approx.
			Order No.	kg				Order No.	kg		
1800	2	C	8MC4 320	1 set	2.680	C	8MF4 320	1 set	2.700		
2000	2	C	8MC4 321	1 set	3.280	C	8MF4 321	1 set	3.300		
2200	2	C	8MC4 322	1 set	3.620	C	8MF4 322	1 set	3.650		



Transport Aids

Selection and ordering data

Transport aids can only be ordered in conjunction with a cubicle or cubicle suite.

Transport eye bolts

The transport eye bolts enable a cubicle to be lifted (in accordance with DIN 580).

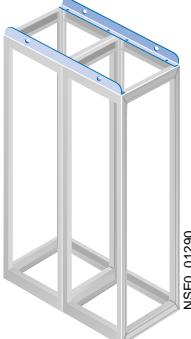
Recommendation: the overall crane hook load should not exceed 500 kg.

Designation	DT	For 8MC2 cubicles		PS*	Weight per unit, approx.	DT	For 8MF cubicles		PS*	Weight per unit, approx.
		Order No.	kg				Order No.	kg		
 Eye bolts, washers and nuts (1 set = 4 pcs.)	C	8MC4 220	1 set	0.914	C	8MF4 220	1 set	1.240		

Transport brackets

Transport brackets are designed for the crane lifting of cubicle suites. Unlike eye bolts, a transport bracket over the whole length of a cubicle suite is able to guarantee that the tensile loads from the lifting tackle are taken up evenly and simultaneously.

Lengths over 2400 mm on request.

Designation	DT	For 8MC2 cubicles		PS*	Weight per unit, approx.	DT	For 8MF cubicles		PS*	Weight per unit, approx.
		Order No.	kg				Order No.	kg		
 1 pair of brackets per running meter up to length 2400 mm in RAL 3000	C	8MC4 221	1 set	6.200	C	8MF4 221	1 set	6.200		
1 pair of brackets per running meter up to length 2400 mm in untreated black plate	C	8MC4 222	1 set	6.200	C	8MF4 222	1 set	6.200		

Transport rails

Transport rails are mounted above or below cubicles or cubicle suites. They serve to transport heavy fully configured cubicles or cubicle suites.

Lengths over 2400 mm on request.

Designation	DT	For 8MC2 cubicles		PS*	Weight per unit, approx.	DT	For 8MF cubicles		PS*	Weight per unit, approx.
		Order No.	kg				Order No.	kg		
 1 pair of brackets per running meter up to length 2400 mm in RAL 3000	C	8MC4 225	1 set	9.800	C	8MF4 225	1 set	9.800		
1 pair of brackets per running meter up to length 2400 mm in untreated black plate	C	8MC4 226	1 set	9.800	C	8MF4 226	1 set	9.800		

* You can order this quantity or a multiple thereof.

Cubicle Expansion

Interior Expansion

Selection and ordering data

If interior expansion parts are to be supplied ready-assembled, an assembly drawing must be provided.

Supporting bars

Supporting bars permit the cubicle to be subdivided in all planes.

- Supporting bars for 8MC cubicles

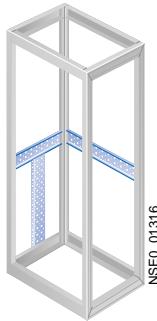
The U-shaped profile possesses square holes (9.5 mm) at 25 mm intervals and plungings offset by 12.5 mm for self-tapping M6 screws.

- Supporting bars for 8MF cubicles
The U-shaped profile possesses 9.2 mm holes at 20 mm intervals.

The supporting bars are mounted either on the cubicle frame or on other supporting bars using 2 universal holders each or 2 ... 4 fixing brackets.

(Supporting bars are supplied together with the necessary fixing materials.)

mm	Order No.	kg	Order No.	kg	DT	For 8MC2 cubicles	PS*	Weight per unit, approx.	DT	For 8MF cubicles	PS*	Weight per unit, approx.
Height												
1800	C 8MC4 330	1 unit	3.330	C	8ME1 461				1 unit	3.700		
2000	C 8MC4 331	1 unit	3.690	C	8ME1 462				1 unit	4.200		
2200	C 8MC4 332	1 unit	4.040	C	8ME1 463				1 unit	4.630		
Width												
600	C 8MC4 340	1 unit	1.360	C	8ME1 464				1 unit	1.330		
800	C 8MC4 341	1 unit	1.720	C	8ME1 465				1 unit	1.770		
900	C 8MC4 342	1 unit	1.900	C	8ME1 466				1 unit	1.980		
1000	C 8MC4 343	1 unit	2.070	C	8ME1 467				1 unit	2.200		
1200	C 8MC4 344	1 unit	2.430	C	8ME1 468				1 unit	2.630		
Depth												
400	C 8MC4 350	1 unit	0.647	C	8ME1 470				1 unit	0.718		
600	C 8MC4 351	1 unit	1.180	C	8ME1 471				1 unit	1.150		
800	C 8MC4 352	1 unit	1.540	C	8ME1 472				1 unit	1.570		

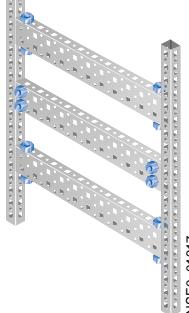


Universal fixings/fixing angles

Universal fixings/fixing angles are used to fix supporting bars with two or four self-tapping M6 screws. They are suitable for the

mounting of supporting bars in all three planes.

Version	Order No.	kg	Order No.	kg	DT	For 8MC2 cubicles	PS*	Weight per unit, approx.	DT	For 8MF cubicles	PS*	Weight per unit, approx.
Universal fixing, inside												
1 set = 8 pcs.	C 8MC4 361	1 set	0.800	-								
Universal fixing, outside												
1 set = 8 pcs.	C 8MC4 362	1 set	1.230	-								
Fixing angles												
1 set = 8 pcs.	C 8MC4 363	1 set	0.216	-								



Gusset plates/fixing angles

Gusset plates/fixing angles are used to fix supporting bars with two or four M8 screws.

They are suitable for the mounting of supporting bars in all three planes.

Designation	Order No.	kg	Order No.	kg	DT	For 8MC2 cubicles	PS*	Weight per unit, approx.	DT	For 8MF cubicles	PS*	Weight per unit, approx.
Gusset plate												
	-		C	8ME8 812					1 unit	0.090		
Fixing angles												
• without spare set	-		C	8ME8 813					1 unit	0.010		
• with spare set	-		C	8ME8 811					1 set	0.075		

Interior Expansion

Mounting strips

Where the location for installation of a device or component is still to be defined, the mounting strip can be hung into the frame for test purposes. Due to the protruding fixing lugs on both sides, however, it is missing the fixings/angles required for the supporting bars.



Mounting strip for cubicle depth	DT	For 8MC2 cubicles	PS*	Weight per unit, approx.	DT	For 8MF cubicles	PS*	Weight per unit, approx.
mm		Order No.		kg		Order No.		kg
400	C	8MC4 370		1 unit	0.550	-		
600	C	8MC4 371		1 unit	0.820	-		
800	C	8MC4 372		1 unit	1.090	-		

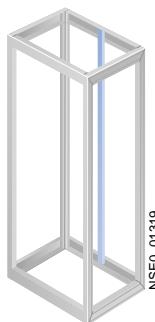
Adapter bars for 8MF expansion

The adapter bars are able to convert an 8MC cubicle to the 8MF profile. This is necessary, for example, if the 8LW wiring system is to be used.

Adapter bar for cubicle height	DT	For 8MC2 cubicles	PS*	Weight per unit, approx.	DT	For 8MF cubicles	PS*	Weight per unit, approx.
mm		Order No.		kg		Order No.		kg
1800	C	8MC4 390		1 unit	3.000	-		
2000	C	8MC4 391		1 unit	3.500	-		
2200	C	8MC4 392		1 unit	4.000	-		

Vertical profile bar

Vertical profile bars divide a cubicle in its width. They possess the same rows of holes as the side frame profile of the 8MC or 8MF cubicles.



Vertical profile bar for cubicle height	DT	For 8MC2 cubicles	PS*	Weight per unit, approx.	DT	For 8MF cubicles	PS*	Weight per unit, approx.
mm		Order No.		kg		Order No.		kg
1800	C	8MC4 380		1 unit	5.760	C	8MF4 380	1 unit 5.700
2000	C	8MC4 381		1 unit	6.430	C	8MF4 381	1 unit 6.200
2200	C	8MC4 382		1 unit	7.110	C	8MF4 382	1 unit 7.000

Cubicle Expansion

Interior Expansion

C-profile bars/Cable clamping bars

C-profile bars (EN 50024) permit a cubicle to be divided into numerous planes to accept loads. The C 30 bars are also used as cable clamping rails.

The surfaces of the C-profile bars are galvanized and clear passivated.

[Further profiles on request.](#)

mm	C-profile bars for cubicle	DT	For 8MC2 cubicles		PS*	Weight per unit, approx.	DT	For 8MF cubicles		PS*	Weight per unit, approx.
			Order No.	kg				Order No.	kg		
C 30											
Width 600	C	8MC4 400	1 unit	0.434	C	8MF4 400	1 unit	8MF4 400	1 unit	0.445	
Width 800	C	8MC4 401	1 unit	0.579	C	8MF4 401	1 unit	8MF4 401	1 unit	0.590	
Width 900	C	8MC4 402	1 unit	1.360	C	8MF4 402	1 unit	8MF4 402	1 unit	0.662	
Width 1000	C	8MC4 403	1 unit	0.723	C	8MF4 403	1 unit	8MF4 403	1 unit	1.530	
Width 1200	C	8MC4 404	1 unit	1.900	C	8MF4 404	1 unit	8MF4 404	1 unit	0.880	
Depth 400	C	8MC4 405	1 unit	0.695	C	8MF4 405	1 unit	8MF4 405	1 unit	0.481	
Depth 600	C	8MC4 406	1 unit	0.920	C	8MF4 406	1 unit	8MF4 406	1 unit	0.747	
Depth 800	C	8MC4 407	1 unit	0.586	C	8MF4 407	1 unit	8MF4 407	1 unit	1.000	
C 40											
Width 600	C	8MC4 410	1 unit	0.477	C	8MF4 410	1 unit	8MF4 410	1 unit	0.490	
Width 800	C	8MC4 411	1 unit	0.637	C	8MF4 411	1 unit	8MF4 411	1 unit	0.649	
Width 900	C	8MC4 412	1 unit	1.490	C	8MF4 412	1 unit	8MF4 412	1 unit	0.728	
Width 1000	C	8MC4 413	1 unit	0.795	C	8MF4 413	1 unit	8MF4 413	1 unit	1.680	
Width 1200	C	8MC4 414	1 unit	2.090	C	8MF4 414	1 unit	8MF4 414	1 unit	0.968	
Depth 400	C	8MC4 415	1 unit	0.765	C	8MF4 415	1 unit	8MF4 415	1 unit	0.529	
Depth 600	C	8MC4 416	1 unit	1.010	C	8MF4 416	1 unit	8MF4 416	1 unit	0.822	
Depth 800	C	8MC4 417	1 unit	0.645	C	8MF4 417	1 unit	8MF4 417	1 unit	1.100	
C 50											
Width 600	C	8MC4 420	1 unit	0.525	C	8MF4 420	1 unit	8MF4 420	1 unit	0.538	
Width 800	C	8MC4 421	1 unit	0.701	C	8MF4 421	1 unit	8MF4 421	1 unit	0.714	
Width 900	C	8MC4 422	1 unit	1.640	C	8MF4 422	1 unit	8MF4 422	1 unit	0.801	
Width 1000	C	8MC4 423	1 unit	0.875	C	8MF4 423	1 unit	8MF4 423	1 unit	1.850	
Width 1200	C	8MC4 424	1 unit	2.300	C	8MF4 424	1 unit	8MF4 424	1 unit	1.060	
Depth 400	C	8MC4 425	1 unit	0.841	C	8MF4 425	1 unit	8MF4 425	1 unit	0.582	
Depth 600	C	8MC4 426	1 unit	1.110	C	8MF4 426	1 unit	8MF4 426	1 unit	0.904	
Depth 800	C	8MC4 427	1 unit	0.709	C	8MF4 427	1 unit	8MF4 427	1 unit	1.210	

Cable routing brackets

For flexible and systematic cable routing in the cubicle. Cable routing brackets are supplied without fixing materials.

Dimensions mm x mm	DT	For 8MC2 cubicles		PS*	Weight per unit, approx.	DT	For 8MF cubicles		PS*	Weight per unit, approx.
		Order No.	kg				Order No.	kg		
NSE0_01362										
120 x 60	C	8MC4 430	6 units	0.876	-					
150 x 80	C	8MC4 432	1 unit	1.000	-					
NSE0_01321										

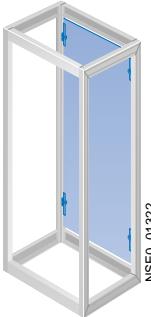
Installation Plates

Selection and ordering data

Mounting panels (incl. fixing brackets)

Mounting panels are used for cubicle installations and for the mounting of individual devices (also outside the cubicle).

The 2.5 mm galvanized sheet steel panels are depth-adjustable and are fixed on the cubicle frame (side frame) by way of 4 brackets.

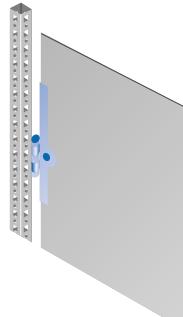


Cubicle height mm	Cubicle width mm	DT	For 8MC2 cubicles Order No.	PS*	Weight per unit, approx. kg	DT	For 8MF cubicles Order No.	PS*	Weight per unit, approx. kg
1800	600	C	8MC4 500	1 unit	21.000	C	8MF4 500	1 unit	22.000
	800	C	8MC4 501	1 unit	27.800	C	8MF4 501	1 unit	28.800
	900	C	8MC4 502	1 unit	31.200	C	8MF4 502	1 unit	32.200
	1000	C	8MC4 503	1 unit	33.600	C	8MF4 503	1 unit	34.600
	1200	C	8MC4 504	1 unit	40.700	C	8MF4 504	1 unit	41.700
2000	600	C	8MC4 510	1 unit	23.400	C	8MF4 510	1 unit	24.400
	800	C	8MC4 511	1 unit	31.000	C	8MF4 511	1 unit	32.000
	900	C	8MC4 512	1 unit	34.800	C	8MF4 512	1 unit	35.800
	1000	C	8MC4 513	1 unit	38.600	C	8MF4 513	1 unit	39.600
	1200	C	8MC4 514	1 unit	46.300	C	8MF4 514	1 unit	47.200
2200	600	C	8MC4 520	1 unit	25.800	C	8MF4 520	1 unit	26.800
	800	C	8MC4 521	1 unit	34.200	C	8MF4 521	1 unit	35.200
	900	C	8MC4 522	1 unit	38.400	C	8MF4 522	1 unit	39.400
	1000	C	8MC4 523	1 unit	42.700	C	8MF4 523	1 unit	43.600
	1200	C	8MC4 524	1 unit	38.400	C	8MF4 524	1 unit	39.400

Additional brackets for center fixing of a mounting panel

To further enhance installation stability, additional brackets can be provided to fix the mounting panel in the center.

The additional fixing brackets cannot be used in conjunction with side mounting plates.



Version	DT	For 8MC2 cubicles Order No.	PS*	Weight per unit, approx. kg	DT	For 8MF cubicles Order No.	PS*	Weight per unit, approx. kg
Bracket	C	8MC4 530	1 unit	0.166	C	8MF4 530	1 unit	0.280

Cubicle Expansion

Installation Plates

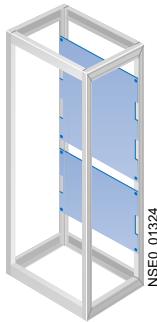
Mounting plates

Mounting plates (2.5 mm galvanized sheet) are used for cubicle installations and for the mounting of devices (in installed state only).

The plates are screwed to the rear side frame profiles of the cubicle frame. If they are to be depth-adjustable, they must be ordered in conjunction with additional vertical supporting bars.

[Further dimensions and versions on request.](#)

Effective height 8MC2 mm	Cubicle width 8MF mm	DT	For 8MC2 cubicles Order No.	PS*	Weight per unit, approx. kg	DT	For 8MF cubicles Order No.	PS*	Weight per unit, approx. kg
For all cubicle heights									
125	100	600	C 8MC4 600	1 unit	2.500	C 8MF4 600	1 unit	2.500	
		800	C 8MC4 601	1 unit	6.160	C 8MF4 601	1 unit	6.160	
		900	C 8MC4 602	1 unit	8.000	C 8MF4 602	1 unit	8.000	
		1000	C 8MC4 603	1 unit	9.830	C 8MF4 603	1 unit	9.830	
		1200	C 8MC4 604	1 unit	13.500	C 8MF4 604	1 unit	13.500	
225	200	600	C 8MC4 610	1 unit	4.500	C 8MF4 610	1 unit	4.500	
		800	C 8MC4 611	1 unit	8.160	C 8MF4 611	1 unit	8.160	
		900	C 8MC4 612	1 unit	10.000	C 8MF4 612	1 unit	10.000	
		1000	C 8MC4 613	1 unit	11.800	C 8MF4 613	1 unit	11.800	
		1200	C 8MC4 614	1 unit	15.500	C 8MF4 614	1 unit	15.500	
425	400	600	C 8MC4 620	1 unit	6.500	C 8MF4 620	1 unit	6.500	
		800	C 8MC4 621	1 unit	10.100	C 8MF4 621	1 unit	10.100	
		900	C 8MC4 622	1 unit	12.000	C 8MF4 622	1 unit	12.000	
		1000	C 8MC4 623	1 unit	13.800	C 8MF4 623	1 unit	13.800	
		1200	C 8MC4 624	1 unit	17.500	C 8MF4 624	1 unit	17.500	
825	800	600	C 8MC4 630	1 unit	8.500	C 8MF4 630	1 unit	8.500	
		800	C 8MC4 631	1 unit	12.100	C 8MF4 631	1 unit	12.100	
		900	C 8MC4 632	1 unit	14.000	C 8MF4 632	1 unit	14.000	
		1000	C 8MC4 633	1 unit	15.800	C 8MF4 633	1 unit	15.800	
		1200	C 8MC4 634	1 unit	19.500	C 8MF4 634	1 unit	19.500	
1225	1200	600	C 8MC4 640	1 unit	11.000	C 8MF4 640	1 unit	11.000	
		800	C 8MC4 641	1 unit	14.600	C 8MF4 641	1 unit	14.600	
		900	C 8MC4 642	1 unit	16.500	C 8MF4 642	1 unit	16.500	
		1000	C 8MC4 643	1 unit	18.300	C 8MF4 643	1 unit	18.300	
		1200	C 8MC4 644	1 unit	22.000	C 8MF4 644	1 unit	22.000	
For cubicle height 1800 mm									
1625	1600	600	C 8MC4 660	1 unit	24.000	C 8MF4 660	1 unit	24.000	
		800	C 8MC4 661	1 unit	26.000	C 8MF4 661	1 unit	26.000	
		900	C 8MC4 662	1 unit	28.000	C 8MF4 662	1 unit	28.000	
		1000	C 8MC4 663	1 unit	30.000	C 8MF4 663	1 unit	30.000	
		1200	C 8MC4 664	1 unit	32.000	C 8MF4 664	1 unit	32.000	
For cubicle height 2000 mm									
1825	1800	600	C 8MC4 670	1 unit	26.000	C 8MF4 670	1 unit	26.000	
		800	C 8MC4 671	1 unit	28.000	C 8MF4 671	1 unit	28.000	
		900	C 8MC4 672	1 unit	30.000	C 8MF4 672	1 unit	30.000	
		1000	C 8MC4 673	1 unit	32.000	C 8MF4 673	1 unit	32.000	
		1200	C 8MC4 674	1 unit	34.000	C 8MF4 674	1 unit	34.000	
For cubicle height 2200 mm									
2025	2000	600	C 8MC4 680	1 unit	28.000	C 8MF4 680	1 unit	28.000	
		800	C 8MC4 681	1 unit	30.000	C 8MF4 681	1 unit	30.000	
		900	C 8MC4 682	1 unit	32.000	C 8MF4 682	1 unit	32.000	
		1000	C 8MC4 683	1 unit	34.000	C 8MF4 683	1 unit	34.000	
		1200	C 8MC4 684	1 unit	36.000	C 8MF4 684	1 unit	36.000	



NSE0_01324

Installation Plates

Side mounting plates

Side mounting plates (2.5 mm galvanized sheet) are used for cubicle installations and for the mounting of devices (in installed state only).

The plates are screwed between the side frame profiles of the cubicle frame.



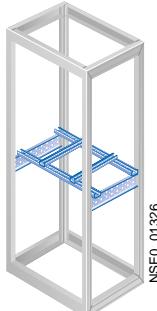
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Cubicle height mm	Cubicle depth mm	DT	For 8MC2 cubicles			PS*	Weight per unit, approx.	DT	For 8MF cubicles			PS*	Weight per unit, approx.
			Order No.	kg	Order No.				kg				
1800	400	C	8MC4 550	1 unit	7.960	C	8MF4 550	1 unit	7.960				
	600	C	8MC4 551	1 unit	14.300	C	8MF4 551	1 unit	14.300				
	800	C	8MC4 552	1 unit	20.700	C	8MF4 552	1 unit	20.700				
2000	400	C	8MC4 555	1 unit	8.900	C	8MF4 555	1 unit	8.900				
	600	C	8MC4 556	1 unit	16.000	C	8MF4 556	1 unit	16.000				
	800	C	8MC4 557	1 unit	23.200	C	8MF4 557	1 unit	23.200				
2200	400	C	8MC4 560	1 unit	9.850	C	8MF4 560	1 unit	9.850				
	600	C	8MC4 561	1 unit	17.800	C	8MF4 561	1 unit	17.800				
	800	C	8MC4 562	1 unit	25.700	C	8MF4 562	1 unit	25.700				

Fixing kit for circuit-breakers

The fixing kit comprises two supporting bars for the cubicle depth and four C 50 profile bars (including fixing materials).

The bolts, nuts, etc. required for a circuit-breaker are not included in the scope of delivery.



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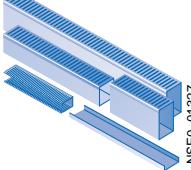
Cubicle depth mm	Cubicle width mm	DT	For 8MC2 cubicles			PS*	Weight per unit, approx.	DT	For 8MF cubicles			PS*	Weight per unit, approx.
			Order No.	kg	Order No.				kg				
400	600	C	8MC4 700	1 set	3.500	C	8MF4 700	1 set	4.440				
	800	C	8MC4 701	1 set	4.020	C	8MF4 701	1 set	4.960				
	900	C	8MC4 702	1 set	4.270	C	8MF4 702	1 set	5.210				
	1000	C	8MC4 703	1 set	4.530	C	8MF4 703	1 set	5.470				
	1200	C	8MC4 704	1 set	5.050	C	8MF4 704	1 set	5.990				
600	600	C	8MC4 710	1 set	4.300	C	8MF4 710	1 set	4.960				
	800	C	8MC4 711	1 set	4.810	C	8MF4 711	1 set	5.470				
	900	C	8MC4 712	1 set	5.070	C	8MF4 712	1 set	5.730				
	1000	C	8MC4 713	1 set	5.330	C	8MF4 713	1 set	5.980				
	1200	C	8MC4 714	1 set	5.840	C	8MF4 714	1 set	6.500				
800	600	C	8MC4 720	1 set	4.840	C	8MF4 720	1 set	5.820				
	800	C	8MC4 721	1 set	5.350	C	8MF4 721	1 set	6.330				
	900	C	8MC4 722	1 set	5.610	C	8MF4 722	1 set	6.590				
	1000	C	8MC4 723	1 set	5.870	C	8MF4 723	1 set	6.850				
	1200	C	8MC4 724	1 set	6.380	C	8MF4 724	1 set	7.360				

Cubicle Expansion

Installation Plates

Cable ducts to DIN 43659, form B (slotted)

Unmounted cable ducts are not included in the scope of delivery!

	Duct height	Duct width	DT	For 8MC2 cubicles	PS*	Weight per unit, approx.	DT	For 8MF cubicles	PS*	Weight per unit, approx.
	mm	mm		Order No.		kg		Order No.		kg
	50	50 75 125		on request on request on request				on request on request on request		
	75	25 37,5 50 100 125		on request on request on request on request on request				on request on request on request on request on request		

DIN mounting rails

Specify order requirements in plain text! Unmounted DIN rails are not included in the scope of delivery!

	Designation	Dimen-	DT	For 8MC2 cubicles	PS*	Weight per unit, approx.	DT	For 8MF cubicles	PS*	Weight per unit, approx.
	mm	mm		Order No.		kg		Order No.		kg
	DIN rail, 1.5 LL Zn	35 x 7,5		on request				on request		
	DIN rail 1.5 LL Zn	35 x 15		on request				on request		
	G rail EN 50 035	G32/15/9		on request				on request		

Device plate with DIN mounting rail and cable ducts

The device plate is fitted with a DIN mounting rail and two cable ducts (H x W = 75 x 50 mm).

The device plate height is 210 mm.

Further dimensions and versions on request.

	Designation	Cubicle width	DT	For 8MC2 cubicles	PS*	Weight per unit, approx.	DT	For 8MF cubicles	PS*	Weight per unit, approx.
	mm			Order No.		kg		Order No.		kg
	Device plate with DIN rail and cable ducts	900	-				C	8MF4 570	1 unit	3.000

Cubicle Expansion

Shelves and Telescopic Rails

Selection and ordering data

Shelves

Shelves can be supplied for fixed installation or as withdrawable shelves on telescopic rails. The maximum width of a shelf is calculated as the nominal cubicle width minus 60 mm. Load-bearing capacity: 50 kg.

Cubicle height mm	Cubicle depth mm	DT	For 8MC2 cubicles			PS*	Weight per unit, approx. kg	DT	For 8MF cubicles			PS*	Weight per unit, approx. kg
			Order No.						Order No.				
Standard shelves (fixed installation)													
600	400	C	8MC4 800			1 unit	3.710	C	8MF4 800			1 unit	5.410
	600	C	8MC4 801			1 unit	5.540	C	8MF4 801			1 unit	7.690
	800	C	8MC4 802			1 unit	7.370	C	8MF4 802			1 unit	9.970
800	400	C	8MC4 805			1 unit	4.980	C	8MF4 805			1 unit	7.110
	600	C	8MC4 806			1 unit	7.440	C	8MF4 806			1 unit	10.100
	800	C	8MC4 807			1 unit	9.090	C	8MF4 807			1 unit	13.200
Perforated shelves (fixed installation)													
600	400	C	8MC4 810			1 unit	3.500	C	8MF4 810			1 unit	3.500
	600	C	8MC4 811			1 unit	4.000	C	8MF4 811			1 unit	4.000
	800	C	8MC4 812			1 unit	4.400	C	8MF4 812			1 unit	4.400
800	400	C	8MC4 815			1 unit	4.200	C	8MF4 815			1 unit	4.200
	600	C	8MC4 816			1 unit	4.700	C	8MF4 816			1 unit	4.700
	800	C	8MC4 817			1 unit	5.100	C	8MF4 817			1 unit	5.100
Shelves for withdrawal on telescopic rails													
600	400	C	8MC4 840			1 unit	4.770	C	8MF4 840			1 unit	4.880
	600	C	8MC4 841			1 unit	7.160	C	8MF4 841			1 unit	7.690
	800	C	8MC4 842			1 unit	9.550	C	8MF4 842			1 unit	10.300
800	400	C	8MC4 845			1 unit	6.420	C	8MF4 845			1 unit	6.090
	600	C	8MC4 846			1 unit	9.640	C	8MF4 846			1 unit	9.540
	800	C	8MC4 847			1 unit	12.800	C	8MF4 847			1 unit	12.400
Perforated shelves for withdrawal on telescopic rails													
600	400	C	8MC4 850			1 unit	4.700	C	8MF4 850			1 unit	4.700
	600	C	8MC4 851			1 unit	5.200	C	8MF4 851			1 unit	5.200
	800	C	8MC4 852			1 unit	5.600	C	8MF4 852			1 unit	5.600
800	400	C	8MC4 855			1 unit	4.700	C	8MF4 855			1 unit	4.700
	600	C	8MC4 856			1 unit	5.200	C	8MF4 856			1 unit	5.200
	800	C	8MC4 857			1 unit	5.600	C	8MF4 857			1 unit	5.600

Telescopic rails

Telescopic rails can be used for maximum shelf withdrawal (=cubicle depth minus 20 mm). They are designed for loads up to 50 kg per rail pair and are retained in their end position.

Cubicle depth mm	DT	For 8MC2 cubicles			PS*	Weight per unit, approx. kg	DT	For 8MF cubicles			PS*	Weight per unit, approx. kg
		Order No.						Order No.				
NSE0_01329												
300	C	8MC4 860			1 set	0.500	C	8MF4 860			1 set	0.500
600	C	8MC4 861			1 set	0.500	C	8MF4 861			1 set	0.500

Cubicle Expansion

19-inch Installations

Selection and ordering data

Punched bars

The 19-inch punched bars for captive nuts (or alternatively for self-tapping screws) possess the same profile as a swing frame. They are screwed to the upright section of the side frame of a 600 mm wide cubicle. The row of holes is set back 50 mm from

the front edge of the frame. Additional supporting bars are required to permit installation in wider cubicles or alternative depth positioning.

Cubicle height mm	DT	For 8MC2 cubicles		PS*	Weight per unit, approx.	DT	For 8MF cubicles		PS*	Weight per unit, approx.
		Order No.	kg				Order No.	kg		
Punched bar with M6 captive nut profile										
1800	C	8MC4 870	2 units	4.680	C	8MF4 870	2 units	5.650		
2000	C	8MC4 871	2 units	5.180	C	8MF4 871	2 units	5.180		
2200	C	8MC4 872	2 units	5.810	C	8MF4 872	2 units	5.810		
Punched bar for M6 self-tapping screws										
1800	C	8MC4 874	2 units	4.990	C	8MF4 874	2 units	5.550		
2000	C	8MC4 875	2 units	5.540	C	8MF4 875	2 units	1.500		
2200	C	8MC4 876	2 units	6.100	C	8MF4 876	2 units	1.700		

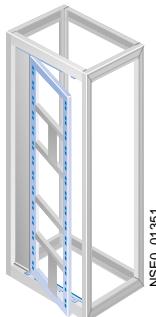
Heavy-duty swing frames

A heavy-duty swing frame comprises welded 19-inch profiles. Such swing frames are designed only for the 8MF cubicle version and are able to accept loads up to 300 kg.

The swing frame is completed with crossbars for cubicle width 900 mm, a locking plate and a cable connection strip. Its surface is galvanized.

Further swing frame dimensions on request.

Swing frame height (height module = 44.45 mm) mm	Cubicle width	DT	For 8MC2 cubicles	PS*	Weight per unit, approx.	DT	For 8MF cubicles	PS*	Weight per unit, approx.
			Order No.		kg		Order No.		kg
43 modules	900	-				C	8MF4 885	1 unit	25.000



Cubicle Expansion

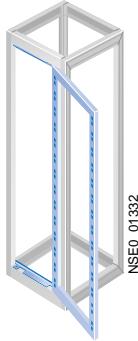
19-inch Installations

Swing frames (standard)

A swing frame comprises welded 19-inch profiles. From a height of 35 modules, it is possible to install devices weighing up to 160 kg. In case of standard installation, the opening angle of the swing frame is 180° and the front row of mounting holes is set back 50 mm from the front edge of the frame. The swing frame is mounted in the cubicle with a set of crossbars and can be fitted either centrally or flush to the left or right side, in each case

with the hinging on either the left or the right. The hinging side is switched by rotating the frame and crossbars. If an order contains no specifications as to the installation orientation, the swing frame is mounted centrally with left-hand hinges. Its surface is galvanized.

[Further swing frame dimensions on request.](#)

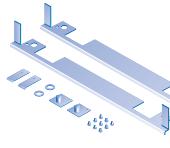


NSE0_01332

Swing frame height (height module = 44.45 mm)	Cubicle height	DT	For 8MC2 cubicles		PS*	Weight per unit, approx.	DT	For 8MF cubicles		PS*	Weight per unit, approx.
			mm	Order No.				kg	Order No.		
3 modules		C	8MC4 880		1 unit	3.000	C	8MF4 880		1 unit	3.000
6 modules		C	8MC4 881		1 unit	3.500	C	8MF4 881		1 unit	3.500
9 modules		C	8MC4 882		1 unit	4.500	C	8MF4 882		1 unit	4.500
12 modules		C	8MC4 883		1 unit	5.000	C	8MF4 883		1 unit	5.000
35/34 modules	1800	C	8MC4 886		1 unit	15.600	C	8MF4 886		1 unit	15.400
39/38 modules	2000	C	8MC4 887		1 unit	16.400	C	8MF4 887		1 unit	16.200
44/43 modules	2200	C	8MC4 888		1 unit	17.400	C	8MF4 888		1 unit	17.200

Crossbars for swing frames

The set of swing frame crossbars comprises two identical parts which are to be screwed to the upright section of the side frame. Their surface is galvanized.



NSE0_01333

Swing frame crossbars for cubicle width	DT	For 8MC2 cubicles		PS*	Weight per unit, approx.	DT	For 8MF cubicles		PS*	Weight per unit, approx.	
		mm	Order No.				kg	Order No.			
600		C	8MC4 894		1 set	7.580	C	8MF4 894		1 set	7.390
800		C	8MC4 895		1 set	9.300	C	8MF4 895		1 set	9.130
900		C	8MC4 896		1 set	9.970	C	8MF4 896		1 set	9.800
1000		C	8MC4 897		1 set	10.800	C	8MF4 897		1 set	10.600
1200		C	8MC4 898		1 set	12.500	C	8MF4 898		1 set	12.500
Swing frame accessories		DT	For 8MC2 cubicles		PS*	Weight per unit, approx.		DT	For 8MF cubicles		PS*
			Order No.			kg			Order No.		
Stop		C	8MC4 820		1 unit	0.105	C	8MF4 820		1 unit	0.105
Grounding strap mm ²		C	8MC4 821		1 unit	0.038	C	8MF4 821		1 unit	0.038
Cable connection strip		C	8MC4 822		1 unit	4.000	C	8MF4 822		1 unit	4.000

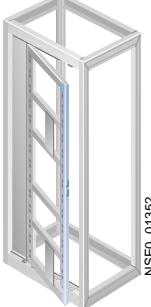
Cubicle Expansion

19-inch Installations

Locking plates

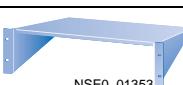
The locking plate permits easier opening and closing of the swing frame. It is normally fitted with a handle and espagnolette

lock for a 3 mm double-bit key, though other locking systems are also possible. The plate surface is galvanized.

Swing frame height (height module = 44.45 mm)	DT	For 8MC2 cubicles	PS*	Weight per unit, approx.	DT	For 8MF cubicles	PS*	Weight per unit, approx.
		Order No.		kg		Order No.		kg
44/43 modules	C	8MC4 823		1 unit 8.000	C	8MF4 823		1 unit 8.000
 NSEO_01352								

19-inch shelves

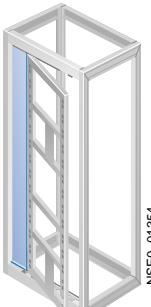
19-inch shelves are intended for fixed installation in the swing frame. Their surface is galvanized.

Shelf depth	DT	For 8MC2 cubicles	PS*	Weight per unit, approx.	DT	For 8MF cubicles	PS*	Weight per unit, approx.
mm		Order No.		kg		Order No.		kg
250	C	8MC4 824		1 unit 3.500	C	8MF4 824		1 unit 3.500
400	C	8MC4 825		1 unit 5.000	C	8MF4 825		1 unit 5.000
 NSEO_01353								

Device panel

A device panel is installed either to the left or to the right of the swing frame and makes up the full width of the cubicle. It can be

used to mount switches, devices and other instruments.

Height (height module = 44.45 mm)	DT	For 8MC2 cubicles	PS*	Weight per unit, approx.	DT	For 8MF cubicles	PS*	Weight per unit, approx.
		Order No.		kg		Order No.		kg
44/43 modules	C	8MC4 828		1 unit 11.300	C	8MF4 828		1 unit 11.300
 NSEO_01354								

19-inch Installations

Cover plates for swing frames

The swing frame can be fitted with cover plates, frames for 19-inch installations and fixing brackets. The surfaces are painted.

	Height (height module = 44.45 mm)	DT	For 8MC2 cubicles		PS*	Weight per unit, approx.	DT	For 8MF cubicles		PS*	Weight per unit, approx.
			Order No.	kg				Order No.	kg		
Cover plates											
	NSE0_01355		1 module	C 8MC4 831	1 unit	0.600	C 8MF4 831	1 unit	0.600		
			2 modules	C 8MC4 832	1 unit	0.900	C 8MF4 832	1 unit	0.900		
			3 modules	C 8MC4 833	1 unit	1.300	C 8MF4 833	1 unit	1.300		
			4 modules	C 8MC4 834	1 unit	1.700	C 8MF4 834	1 unit	1.700		
			5 modules	C 8MC4 835	1 unit	2.100	C 8MF4 835	1 unit	2.100		
			6 modules	C 8MC4 836	1 unit	2.500	C 8MF4 836	1 unit	2.500		
			7 modules	C 8MC4 837	1 unit	2.900	C 8MF4 837	1 unit	2.900		
			44/43 modules	C 8MC4 827	1 unit	14.600	C 8MF4 827	1 unit	14.600		
Frames											
			für 7 modules	C 8MC4 838	1 unit	2.500	C 8MF4 838	1 unit	2.500		
Fixing brackets for housings (7XP20)											
				C 8MC4 826	2 units	0.300	C 8MF4 826	2 units	0.300		

Cubicle Expansion

Notes

4

5

Accessories



5/2	Cubicle Lighting
5/3	Grounding / Shielding
5/5	Miscellaneous Accessories
5/8	Busbar System 8US1
5/9	Busbars 8HS, 8HH

Accessories

Cubicle Lighting

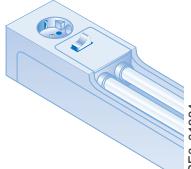
Selection and ordering data

Cubicle light with fluorescent tube

The cubicle light is specifically suitable for use in switchgear and control cubicles. The innovative adhesive magnet fixing eliminates all assembly work and expenditure for mounting on enclosure parts.

A SCHUKO socket outlet with ground contact and an on/off switch are incorporated into the plastic housing. The cubicle light is supplied without cabling.
Spare lamp: Osram, SPD1411-2B

Version	DT	For 8MC2 cubicles	PS*	Weight per unit, approx.	DT	For 8MF cubicles	PS*	Weight per unit, approx.
W		Order No.		kg		Order No.		kg
11	C	8MC4 900		1 unit	1.110	C	8MF4 900	1 unit 2.230



SE0_01334

5

Socket outlets

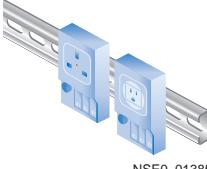
Socket outlets are mounted on 35 mm DIN rails and connected without screws by way of three clamping terminals (for stranded

and solid wires 0.5 ... 2.5 mm²). The maximum operating voltage is 250 V. The housing is light-gray UL94 V-Q plastic.

Version	Nominal current	DT	For 8MC2 cubicles	PS*	Weight per unit, approx.	DT	For 8MF cubicles	PS*	Weight per unit, approx.
A			Order No.		kg		Order No.		kg
Socket outlet with miniature fuse Ø 5 x 20 mm	6.3	-				C	8MF9 300	3 units	0.500
Socket outlet without fuse	16.0	-				C	8MF9 305	3 units	0.500



NSE0_01393



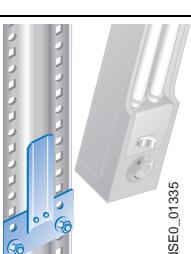
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Plug-on mount

If a cubicle light is provided with a plug-on mount, it remains immune to vibration and can be removed at any later time without tools.

If fitted between two plug-on mounts, the cubicle light is fixed statically to the frame. The cubicle light can only be fitted to the cubicle frame by using plug-on mounts.

Designation	DT	For 8MC2 cubicles	PS*	Weight per unit, approx.	DT	For 8MF cubicles	PS*	Weight per unit, approx.
		Order No.		kg		Order No.		kg
Plug-on mount	C	8MC4 903		1 unit 0.100	C	8MF4 903		1 unit 0.100



NSE0_01335

Grounding / Shielding

Selection and ordering data

Grounding

The use of self-tapping screws for the 8MC and 8MF cubicles means that it is **not** necessary to provide separate grounding of the enclosure parts or other elements screwed to the frame.

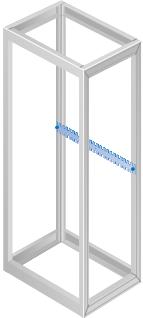
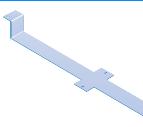
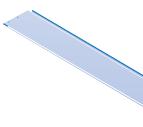
Grounding cables are only required for the doors and are already fitted at the factory. Other materials required for grounding:

Version	DT	For 8MC2 cubicles		PS*	Weight per unit, approx.	DT	For 8MF cubicles		PS*	Weight per unit, approx.
		Order No.	kg				Order No.	kg		
Grounding plate	C	8MC4 910	1 unit	0.127	C	8MF4 910	1 unit	0.103		
Grounding cable 6 mm ²	C	8MC4 911	1 unit	0.027	C	8MF4 911	1 unit	0.033		
Grounding bar, copper 30 x 5 mm for cubicle width: • 600 mm • 800 mm • 900 mm • 1000 mm • 1200 mm	C	8MC4 912 8MC4 913 8MC4 914 8MC4 915 8MC4 916	1 unit 1 unit 1 unit 1 unit 1 unit	0.918 1.220 1.380 1.530 1.840	C	8MF4 912 8MF4 913 8MF4 914 8MF4 915 8MF4 916	1 unit 1 unit 1 unit 1 unit 1 unit	0.937 1.240 1.400 1.550 1.860		
Grounding bar, copper 30 x 10 mm for cubicle width: • 600 mm • 800 mm • 900 mm • 1000 mm • 1200 mm	C	8MC4 942 8MC4 943 8MC4 944 8MC4 945 8MC4 946	1 unit 1 unit 1 unit 1 unit 1 unit	1.830 2.450 2.760 3.070 3.690	C	8MF4 942 8MF4 943 8MF4 944 8MF4 945 8MF4 946	1 unit 1 unit 1 unit 1 unit 1 unit	1.870 2.490 2.800 3.110 3.730		

Accessories

Grounding / Shielding

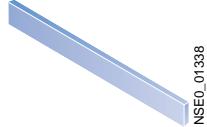
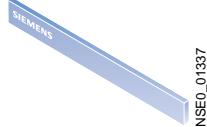
Shielding

	Version	DT	For 8MC2 cubicles	PS*	Weight per unit, approx.	DT	For 8MF cubicles	PS*	Weight per unit, approx.
			Order No.		kg		Order No.		kg
Shielding bars									
	Shielding bar, copper 20 x 5 mm, length = 330 mm	C	8MC4 920		1 unit	0.296	C	8MF4 920	
	Support 30 x 30 mm	C	8MC4 921		1 unit	0.035	C	8MF4 921	
Serrated (toothed) bar									
 NSE0_01336									
Serrated bar, U-shaped Cubicle width/depth: • 600 mm C 8MC4 922 1 unit 1.050 C 8MF4 922 1 unit 1.180 • 800 mm C 8MC4 923 1 unit 1.410 C 8MF4 923 1 unit 1.580 • 900 mm C 8MC4 924 1 unit 1.580 C 8MF4 924 1 unit 1.600 • 1000 mm C 8MC4 925 1 unit 1.760 C 8MF4 925 1 unit 1.780 • 1200 mm C 8MC4 926 1 unit 2.120 C 8MF4 926 1 unit 2.140									
Serrated bar, flat Cubicle width/depth: • 600 mm C 8MC4 932 1 unit 0.852 C 8MF4 932 1 unit 0.984 • 800 mm C 8MC4 933 1 unit 1.210 C 8MF4 933 1 unit 1.380 • 900 mm C 8MC4 934 1 unit 1.380 C 8MF4 934 1 unit 1.400 • 1000 mm C 8MC4 935 1 unit 1.560 C 8MF4 935 1 unit 1.580 • 1200 mm C 8MC4 936 1 unit 1.920 C 8MF4 936 1 unit 1.940									
All-round serrated bars (width and depth) on request.									
Fixing plates									
 NSE0_01380									
	Lamp plate	C	8MC4 890		1 unit	1.200	C	8MF 4890	
 NSE0_01378									
	Heater plate	C	8MC4 891		1 unit	1.500	C	8MF 4891	
 NSE0_01379									
	Thermostat plate	C	8MC4 892		1 unit	0.300	C	8MF 4892	
 NSE0_01381									
	Door position switch plate	C	8MC4 893		1 unit	0.200	C	8MF 4893	

Miscellaneous Accessories

Selection and ordering data

Trim strip

Cubicle width mm	DT	For 8MC2 cubicles	PS*	Weight per unit, approx.	DT	For 8MF cubicles	PS*	Weight per unit, approx.
		Order No.		kg		Order No.		kg
Trim strip without Siemens lettering								
 NSE0_01338	Petrol blue				C	8MF4 210		1 unit 0.233
600	-				C	8MF4 211		1 unit 0.312
800	-				C	8MF4 213		1 unit 0.352
900	-				C	8MF4 215		1 unit 0.471
1200	-							
Trim strip with Siemens lettering								
 NSE0_01337	Petrol blue				C	8MF4 240		1 unit 0.233
600	-				C	8MF4 241		1 unit 0.312
800	-				C	8MF4 243		1 unit 0.352
900	-				C	8MF4 245		1 unit 0.471
1200	-							
Trim strip with Siemens lettering and lamp hole								
Petrol blue					C	8MF4 200		1 unit 0.233
600	-				C	8MF4 201		1 unit 0.313
800	-				C	8MF4 203		1 unit 0.352
900	-				C	8MF4 205		1 unit 0.472
1200	-							
Fixing materials								
Petrol blue	End cover, screw 20 pcs. each	-			C	8ME8 015		1 set 0.160
Umbra	End cover, screw 20 pcs. each	-			C	8ME8 011		1 set 0.062

Other parts as replacements on request.

Accessories

Miscellaneous Accessories

Trim strip

The decor strip is used to provide lettering for the 8MC cubicle and can be affixed to the top edge of the door. It is first necessary to remove the standard Siemens logo.

The strip is 50 mm high, petrol blue, and is supplied with and without Siemens lettering. The two-door version is intended for symmetrically divided double-wing doors. Asymmetrical divisions on request.

Cubicle width mm	DT	For 8MC2 cubicles		PS*	Weight per unit, approx.	DT	For 8MF cubicles		PS*	Weight per unit, approx.
		Order No.	kg				Order No.	kg		
Trim strip with Siemens lettering										
600	C	8MC4 200	1 unit	0.235	-					
800	C	8MC4 201	1 unit	0.314	-					
800, double-wing	C	8MC4 202	1 unit	0.310	-					
900	C	8MC4 203	1 unit	0.354	-					
900, double-wing	C	8MC4 204	1 unit	0.350	-					
1000, double-wing	C	8MC4 205	1 unit	0.390	-					
1200, double-wing	C	8MC4 206	1 unit	0.470	-					
Trim strip without Siemens lettering										
600	C	8MC4 210	1 unit	0.235	-					
800	C	8MC4 211	1 unit	0.314	-					
800, double-wing	C	8MC4 212	1 unit	0.310	-					
900	C	8MC4 213	1 unit	0.354	-					
900, double-wing	C	8MC4 214	1 unit	0.350	-					
1000, double-wing	C	8MC4 215	1 unit	0.390	-					
1200, double-wing	C	8MC4 216	1 unit	0.470	-					

Locking systems

Cubicle height	DT	For 8MC2 cubicles		PS*	Weight per unit, approx.	DT	For 8MF cubicles		PS*	Weight per unit, approx.
		Order No.	kg				Order No.	kg		
Locking rods										
1800	-					C	8MF9 060	1 unit	0.380	
2000	-					C	8MF9 061	1 unit	0.430	
2200	-					C	8MF9 062	1 unit	0.480	
Lock										
right, with key retainer	-					C	8MF9 065	1 unit	0.364	
left, with key retainer	-					C	8MF9 066	1 unit	0.364	
Espagnolette lock accessory set										
for single-wing door	-					C	8ME8 468	1 unit	0.033	
for double-wing door	-					C	8ME8 473	1 unit	0.023	
Handles										
T-handle without lock	-					C	8MF9 070	1 unit	0.165	
T-handle with lock	-					C	8MF9 071	1 unit	0.165	
Latch handle without lock	-					C	8MF9 072	1 unit	0.210	
Wing handle without lock	-					C	8MF9 073	1 unit	0.300	
Wing handle with lock	-					C	8MF9 074	1 unit	0.350	
Actuating pin										
■ square, 8 mm	-					C	8MF9 081	1 unit	0.015	
double-bit, 3mm	-					C	8MF9 082	1 unit	0.015	
double-bit, 5mm	-					C	8MF9 083	1 unit	0.020	
Sealing strip										
• for roof panel	-					C	8MF8 810	1 unit	0.100	
• for door	-					C	8MF8 806	1 unit	0.150	
• for side/rear panel	-					C	8MF8 807	1 unit	0.150	
• for base plate	-					C	8MF8 808	1 unit	0.030	

Miscellaneous Accessories

Screws, nuts, washers

We offer the following self-tapping screws with Torx-drive heads, nuts and washers for the fixing of installations in 8MC and 8MF cubicles.

Version	DT	For 8MC2 cubicles		PS*	Weight per unit, approx.	DT	For 8MF cubicles		PS*	Weight per unit, approx.
		Order No.	kg				Order No.	kg		
	C	8MC9 010	200 units	0.003	-					
	C	8MC9 011	200 units	0.003	C	8ME1 763	200 units	0.003		
	C	8MC9 012	200 units	0.004	-					
	-				C	8ME8 814	50 units	0.010		
	C	8MC9 013	200 units	0.003	-					
	-				C	8ME8 476	50 units	0.250		
	C	8MC9 014	200 units	0.150	C	8ME8 477	50 units	0.075		
	-									

Repair paint

Spray can (400 ml) for the touching up of powder-coated or wet-painted surfaces.

Paint color	DT	For 8MC2 cubicles		PS*	Weight per unit, approx.	DT	For 8MF cubicles		PS*	Weight per unit, approx.
		Order No.	kg				Order No.	kg		
	B	8MC9 030	1 unit	0.400	B	8MF9 030	1 unit	0.400		
RAL 7022	B	8MC9 031	1 unit	0.400	B	8MF9 031	1 unit	0.400		
SN 611	B	8MC9 032	1 unit	0.400	B	8MF9 032	1 unit	0.400		

Keys

Keys are supplied as standard together with all locking systems.
The following keys are made available as replacements:

Type	Size	DT	For 8MC2 cubicles		PS*	Weight per unit, approx.	DT	For 8MF cubicles		PS*	Weight per unit, approx.
			Order No.	kg				Order No.	kg		
	6	C	8MC9 050	1 unit	0.200	-					
	7	C	8MC9 051	1 unit	0.200	-					
	8	C	8MC9 052	1 unit	0.200	C	8MF9 052	1 unit	0.200		
	7	C	8MC9 053	1 unit	0.200	-					
	8	C	8MC9 054	1 unit	0.200	-					
	3	C	8MC9 055	1 unit	0.200	C	8MF9 055	1 unit	0.200		
	5	C	8MC9 056	1 unit	0.200	C	8MF9 056	1 unit	0.200		
Daimler-Benz insert	C	8MC9 057	1 unit	0.200	-						

Accessories

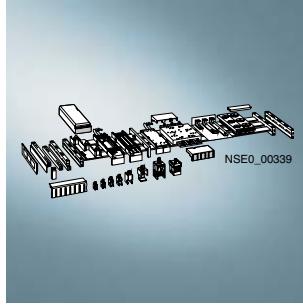
Busbar System 8US1

Overview



Independently of the 8MC and 8MF cubicle systems, we offer a range of accessories for installations of switchgear systems. These accessories include our busbar system 8US1, starting with a 40 mm system for 360 A and progressing up to a 60 mm system for 1600 A.

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For further details of the 40 mm systems (360 A), 60 mm systems (630 A) and 60 mm systems with special profiles (1600 A), please refer to the special Siemens catalog for low-voltage switchgear.

You can also obtain further information on our comprehensive range of accessories by calling our offices on one of the following telephone numbers:

- +49 (0)341-4470-491
- +49 (0)341-4470-471
- +49 (0)341-4470-493

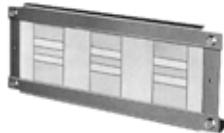
We would be pleased to help in every way possible.

Busbars 8HS, 8HH

Selection and ordering data

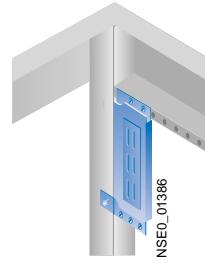
Busbar holders

Number	Cross-section	Load capacity	DT	For 8MC2 cubicles		PS*	Weight per unit, approx.
				mm	A		
1 x 3 or 2 x 3	30 x 5	400 or 725	B	8HH5 030		1 unit	0.500
2 x 3	40 x 10	1600	B	8HH5 040		1 unit	0.900
2 x 3	50 x 10	2000	B	8HH5 050		1 unit	1.600



3-pole busbar holders

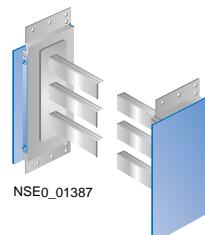
Number	Cross-section	Load capacity	DT	For 8MC2 cubicles		PS*	Weight per unit, approx.
				mm	A		
1 x 3 or 2 x 3	30 x 5	400 or 725	B	8HS5 061		1 unit	0.500
1 x 3 or 2 x 3	50 x 10	950 or 1350	B	8HS5 062		1 unit	0.900



End covers for 3-pole busbar runs

To ensure the necessary isolating clearance between the busbars and the end panels of the cubicles, a busbar run must be provided with end covers.

Designation	DT	For 8MC2 cubicles		PS*	Weight per unit, approx.
		Order No.	kg		
End covers 1 set = 2 pcs. NSE0_01387	B	8HS5 070	1 set	0.100	



Accessories

Busbars 8HS, 8HH

Isolated holder for neutral bar, single-pole

Designation	Bar cross-section	DT	For 8MC2 cubicles	PS*	Weight per unit, approx.
	mm		Order No.		kg
 Isolated holder for neutral bar on front cubicle frame 1 set = 2 pcs.	30 x 5, 30 x 10, 40 x 5 or 40 x 10	B	8HS5 063	1 set	0.050

Busbar spacers

To prevent offsets at busbar joints and as a spacer to maintain the clearance between double bars. Version: copper, silver-plated.

Busbar profile	Hole diameter	DT	For 8MC2 cubicles	PS*	Weight per unit, approx.
mm	mm		Order No.		kg
30 x 5	12.5	B	8HH5 530	46 units	0.050
40 x 10 or 50 x 10	18	B	8HH5 540	25 units	0.150



6

Special Cubicles



6/2	Modular Cubicle Technology
6/3	Earthquake-Resistant System Cubicles
6/5	PC Cubicles
6/6	EMC Cubicles



Special Cubicles

Modular Cubicle Technology

Overview



Modular cubicle technology refers to machine-independent, standardized function modules, which permit consistent modernization of the whole process chain with regard to electrical equipment.

The result is a multifunctional modular system:

- Cubicles are configured with pre-assembled and tested modules on a plug-&-play basis and linked to one another by way of a minimum number of standardized cables. The use of such multi-core bus cables eliminates the need for cable ducting and costly point-to-point wiring of the individual devices.
- The available standard types cover the majority of electrical functionalities required by automation solutions. Customer-specific special modules can be supplied at short notice (order numbers are generated following final agreement with the customer).

Prices and delivery times on request; please call on +49 9131 98 3997.

Benefits



Modular system for project development

The time savings to be achieved with the new modular technology are manifested in particular in parallel engineering: the separation of order-independent module design and customer-specific project development. Electrical system design is performed on the basis of standardized function modules.

The benefits of modular cubicle technology at a glance:

- fast installation - low costs
- time savings in design and project development
- shorter assembly times and faster order turnaround

Fast retrofitting and free variant selection at final assembly

Last-minute wishes expressed by the customer can be realized through the simple retrofitting of pre-assembled and tested modules, without disturbing the machine manufacturer's assembly and commissioning process.

The clear function topology and simple documentation permit module exchanges even without specifically trained personnel. This benefit represents a considerable flexibility gain for every user.

Commissioning/service

The system brings decisive time savings in case of faults. The problem and cause are diagnosed directly at the operating console, and the appropriate module can simply be removed and replaced by the operator.

Security

The use of standardized, pre-assembled bus cables eliminates potential sources of error.

Good electromagnetic compatibility and the full testing of all modules make for a simple and reliable cubicle system.

Assembly



One of the key elements of the modular cubicle technology is the innovative mechanical assembly system, which is based on mo-

dularized mounting plates and device mounts matching the module grid. The symmetrical, universal 50 mm grid in both horizontal and vertical directions permits space-saving module installation in ideal layouts for the individual application:

- simple assembly by hanging the modules into the mounting plates
- reliable integrated system to fix the modules.

The SICUBE system cubicles are perfectly suited to the mechanical assembly technology. Whether standardized solution or customer-specific application - we are able to offer an optimum product.

Earthquake-Resistant System Cubicles

Overview

**8MF6 system cubicle in an earthquake-resistant version**

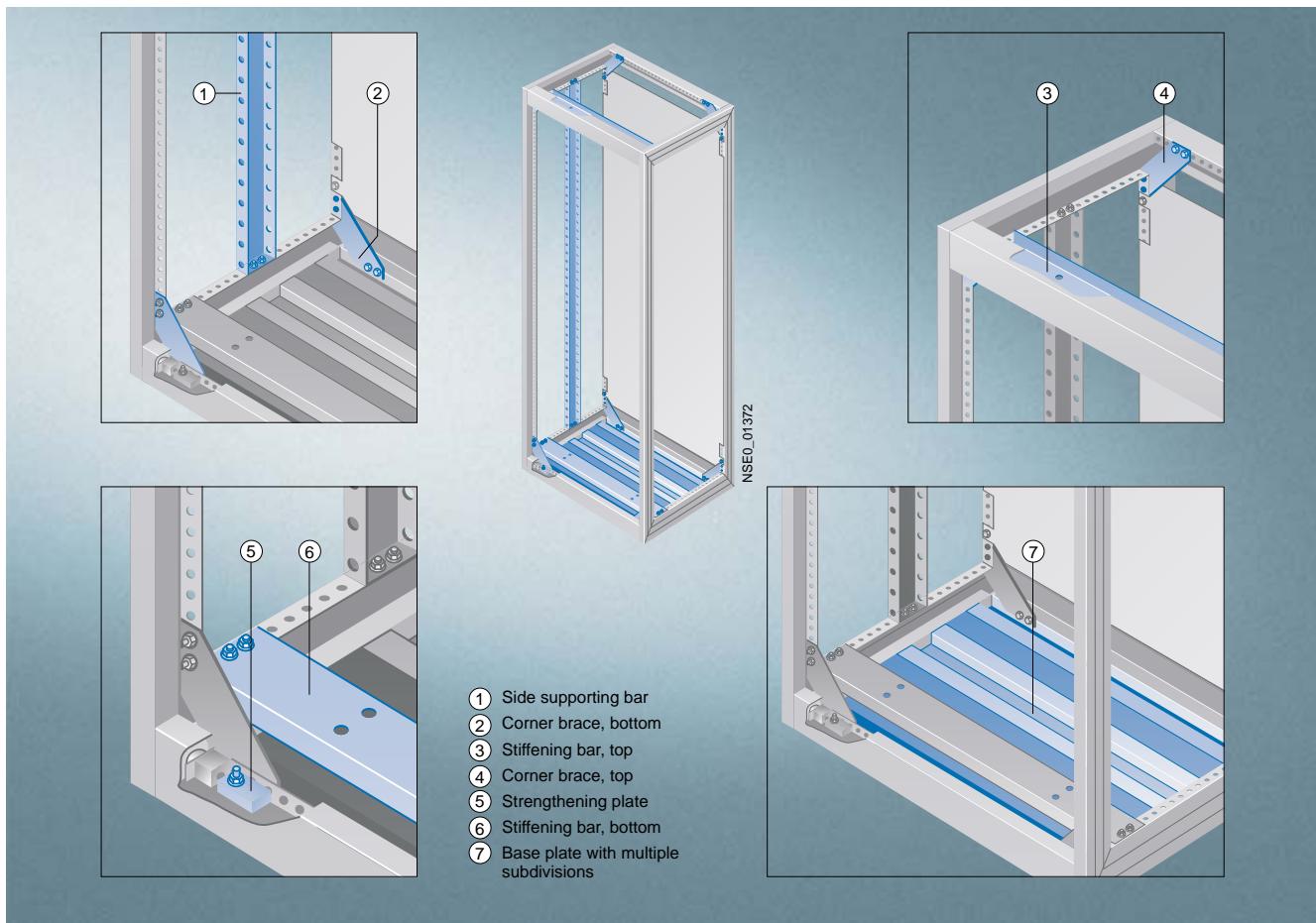
The demand for system cubicles in regions with a higher risk of earthquakes continues to rise. For this reason, we have been the first system cubicle manufacturer to develop a generally earthquake-resistant system cubicle. The design has been subjected to thorough vibration testing (simulated earthquakes). When developing this system cubicle, we were able to make use of the considerable know-how already present in the company in the field of earthquake-resistant switchgear (SIVACON). This enabled us to derive the necessary measures for adaptation of the 8MF6 cubicle.

This cubicle is a certified earthquake-resistant system cubicle. An appropriate weight distribution and center of gravity are prescribed by the certification and serve as a guideline for interior installations.

The devices and components installed by the customer must also satisfy the relevant demands. Installations can be mounted in the system cubicle in three planes (rear, center and front), the front plane being intended for 19-inch expansions.

By eliminating cost-intensive cross-bonding, we have not only achieved a favorable price, but are also able to perform deliveries at short notice (approx. 4 weeks after receipt of an order).

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Special Cubicles

Earthquake-Resistant System Cubicles

Selection and ordering data

Scope of delivery

8MF6	
Earthquake-resistant version	
Frame	Screwed (ready-assembled), zinkcor- and powder-coated Sheet steel 2.5 mm Sheet steel 4 mm, Corner braces (top and bottom) Strengthening plates in the cross members (top and bottom) Screwed to front of the frame (top and bottom)
• Side frame profiles	
• Cross member profiles	
• Stiffening bar	
Enclosure parts	Folded, sheet steel 1.5 mm, powder-coated Partition panels left and right Sheet steel 2.5 mm, galvanized Screw fixings every 200 mm
• Fixed rear panel	
• Side panels	
• Vertical profile bars	One profile bar in the side frames left and right, screwed to the partition panel
• Mounting plates	Sheet steel 2.5 mm, galvanized Rear, with stiffening profiles 5 x 400 mm high plates or 2 x 1000 mm high plates
• Door	Sheet steel 1.5 mm, powder-coated, front door (right-hand hinges) or double-wing doors for width 900 mm, espagnolette lock with double-bit key (DIN 43668), lock insert with ø 3 mm pin, 180° hinges (opening angle approx. 130° for cubicle suites)
• Trim strip	Petrol blue
• Roof panel	Flat, sheet steel 1.5 mm, galvanized, screw fixings every 200 mm
• Base panel	Multiple subdivisions, with foam rubber profile
Paint finish	Powder coating, surface with fine structured finish, for indoor installation
• Cubicle color	RAL 7032 ¹⁾ (other cubicle colors on request)
• Frame color	RAL 7032
Degree of protection	IP40/IP54 to EN 60529

Ordering designations

	8 M F 6	█ █ █ - █ █ █
Height	2200 mm	2
Width	600 mm 900 mm	6 9
Depth	600 mm	6
Degree of protection	IP 40 IP 54	4 5
Installation	Earthquake-resistant installation (without side panels)	K E

Ordering data

Height	Width	Depth	DT	Order No.	Weight per unit, approx.
mm	mm	mm			kg
Degree of protection IP 40					
2200	600	600	C	8MF6 266-4KE	155.000
	900	600	C	8MF6 296-4KE	185.000
Degree of protection IP 54					
2200	600	600	C	8MF6 266-5KE	155.000
	900	600	C	8MF6 296-5KE	185.000

The packaging size for 8MF6 cubicles is 1 cubicle,
i.e. 1 cubicle or a multiple thereof can be ordered.

If a door with left-hand hinges is required, add the suffix "-Z"
to the Order No. and "left-hand hinge" to the text.

Overview

A variant of the 8MC/8MF system cubicles can also be ordered as a PC cubicle. The PC cubicle is a robust construction and is thus suitable for use in industrial environments.

All benefits of the system cubicles, such as self-tapping screw fixings, protective conductor concept and cubicle stability, are to be found also in the PC cubicle.

How does the PC cubicle differ from a standard cubicle?

The standard door is replaced by:

- An upper compartment door,
 - two espagnolette locks
 - monitor cut-out with inspection pane
 - perforated shelf,
 - at bottom, perforated shelf for the computer
- A hinged flap (center)
 - height approx. 150 mm with 90° stay, plastic handle (black)
 - behind, a telescopic shelf for a keyboard
 - and pull-out side extension for a mousepad
- A lower compartment door
 - two espagnolette locks
 - telescopic shelf for a printer

Selection and ordering data***Ordering designations***

		8 M C 2	■ ■ ■ - ■ ■ ■
		8 M F 2	■ ■ ■ - ■ ■ ■
Height	1800 mm	8	
	2000 mm	0	
	2200 mm	2	
Width	600 mm	6	
Depth	600 mm	6	
	800 mm	8	
Degree of protection	IP 40	4	
Installation	Stand-alone installation with 2 side panels	E	
Variant	PC cubicle	P	

Ordering data

Further dimensions, prices and delivery times on request.

Special Cubicles

EMC Cubicles

Overview



Definition of EMC

"Electromagnetic compatibility is the ability of an electrical system to function satisfactorily in its electromagnetic environment without influencing this environment, to which other systems may also belong, to more than a permissible degree."

To ensure the EMC of a system, it is necessary that its devices emit only limited interference and are at the same time immune as far as possible to external interference. In other words, the level of interference emitted by a device must lie below the interference threshold of any second device installed in the same location, taking into consideration the influence of the interference transmission path (keyword: "Interference immunity").

For such evaluations, the whole frequency range from 0 Hz to an upper limit frequency determined by the device concerned, which could well lie in the GHz range, must be taken into account. To be able to meet the overall requirements, it is imperative that the devices satisfy certain demands, and that they comply with the defined thresholds regarding interference emission and interference immunity.

Design of an EMC cubicle

The 8MC/8MF EMC cubicle is available in the version:

- galvanized, with approx. 55 dB attenuation.

How does the EMC cubicle differ from a standard cubicle?

The following differences can be listed compared to a standard 8MC/8MF system cubicle:

- Paint finish only on the outer surfaces of doors and rear/side panels
- Conductive seals pre-mounted for doors and rear/side panels
- Additional standard base plate

The whole cubicle frame and all enclosure parts are galvanized, which serves to extend the shield attenuation measures to the cubicle installations.

The visible (exterior) areas of the cubicle enclosure are painted. Doors, roof panel, side panel and rear panel are provided with special RF seals and each screwed to the cubicle frame at several points. Special EMC cubicles can be supplied in all standard dimensions, but only up to a width of 900 mm and only with single-wing doors. The cubicle enclosure parts can also be supplied with ventilation slots and integrated RF seals.

The shield attenuation of the 8MC/8MF EMC cubicles is approx. 60 dB over a frequency range from 10 kHz to 1 GHz (corresponds to an attenuation factor of 1000). By comparison, standard 8MF cubicles provide a shield attenuation of up to 20 dB.

Electromagnetic compatibility (EMC)

EMC measures are becoming more and more important both for individual devices and complete systems. The reasons are in particular:

- System processing speeds are becoming ever faster
- Systems are becoming more extensive
- Many different device types may be encountered in a single system
- Various power levels may be present in a single system
- More and more external interference sources.

Selection and ordering data**Ordering designations**

		8 M C 2	8 M F 2	8 M F 5	8 M F 6
Height	1800 mm	8	0	2	
Width	600 mm	6	8	9	
Depth	400 mm		4		
600 mm		6			
800 mm		8			
Degree of protection	IP 40		4		
Installation	Stand-alone installation with 2 side panels		E		
Surface	galvanized		S		

Ordering data

Height	Width	Depth	DT	Order No.	Weight per unit, approx.	DT	Order No.	Weight per unit, approx.	DT	Order No.	Weight per unit, approx.
mm	mm	mm			kg			kg			kg
1800	600	400	C	8MC2 864-4ES	90.000	C	8MF5 864-4ES	90.000	C	8MF6 864-4ES	90.000
		600	C	8MC2 866-4ES	100.000	C	8MF5 866-4ES	100.000	C	8MF6 866-4ES	100.000
		800	C	8MC2 868-4ES	110.000	C	8MF5 868-4ES	110.000	C	8MF6 868-4ES	110.000
	800	400	C	8MC2 884-4ES	100.000	C	8MF5 884-4ES	100.000	C	8MF6 884-4ES	100.000
		600	C	8MC2 886-4ES	110.000	C	8MF5 886-4ES	110.000	C	8MF6 886-4ES	110.000
	900	400	C	8MC2 894-4ES	110.000	C	8MF5 894-4ES	110.000	C	8MF6 894-4ES	110.000
		600	C	8MC2 896-4ES	120.000	C	8MF5 896-4ES	120.000	C	8MF6 896-4ES	120.000
2000	600	400	C	8MC2 064-4ES	115.000	C	8MF5 064-4ES	115.000	C	8MF6 064-4ES	115.000
		600	C	8MC2 066-4ES	125.000	C	8MF5 066-4ES	125.000	C	8MF6 066-4ES	125.000
		800	C	8MC2 068-4ES	135.000	C	8MF5 068-4ES	135.000	C	8MF6 068-4ES	135.000
	800	400	C	8MC2 084-4ES	120.000	C	8MF5 084-4ES	120.000	C	8MF6 084-4ES	120.000
		600	C	8MC2 086-4ES	130.000	C	8MF5 086-4ES	130.000	C	8MF6 086-4ES	130.000
	900	400	C	8MC2 094-4ES	135.000	C	8MF5 094-4ES	135.000	C	8MF6 094-4ES	135.000
		600	C	8MC2 096-4ES	145.000	C	8MF5 096-4ES	145.000	C	8MF6 096-4ES	145.000
2200	600	400	C	8MC2 264-4ES	140.000	C	8MF5 264-4ES	140.000	C	8MF6 264-4ES	140.000
		600	C	8MC2 266-4ES	145.000	C	8MF5 266-4ES	145.000	C	8MF6 266-4ES	145.000
		800	C	8MC2 268-4ES	155.000	C	8MF5 268-4ES	155.000	C	8MF6 268-4ES	155.000
	800	400	C	8MC2 284-4ES	145.000	C	8MF5 284-4ES	145.000	C	8MF6 284-4ES	145.000
		600	C	8MC2 286-4ES	155.000	C	8MF5 286-4ES	155.000	C	8MF6 286-4ES	155.000
	900	400	C	8MC2 294-4ES	150.000	C	8MF5 294-4ES	150.000	C	8MF6 294-4ES	150.000
		600	C	8MC2 296-4ES	175.000	C	8MF5 296-4ES	175.000	C	8MF6 296-4ES	175.000

The packaging size for 8MC/8MF cubicles is 1 cubicle, i.e. any chosen number of cubicles or a multiple thereof can be ordered.

If a door with left-hand hinges is required, add the suffix "-Z" to the Order No. and "left-hand hinge" to the text.

Special dimensions on request.

Special Cubicles

EMC Cubicles

Configuration

Installation notes for EMC-compliant configuration - Principles of EMC

Interference emission and interference immunity

EMC is dependent on two properties of the devices involved, namely their interference emission and interference immunity. Electrical devices may be considered interference sources and/or potentially susceptible devices.

Electromagnetic compatibility is achieved where the functioning of potentially susceptible devices is not influenced by the existing interference sources.

A device may also be both an interference source and a potentially susceptible device. The power section of a converter, for example, is to be seen as an interference source, whereas the control section represents a potentially susceptible device.

Thresholds

Electric drives are covered by the product standard EN 61 800. According to this product standard, it is not absolutely necessary to implement all EMC measures for industrial systems; individual solutions can be determined to handle the specific conditions of the local environment. For example, increasing of the interference immunity of a sensitive device, rather than implementing interference suppression measures at the converter, may be the better solution from an economic point of view. The choice of a solution is thus also determined by its cost-effectiveness.

Equipment is in certain situations also required to comply with EN 55 011. This standard defines thresholds for interference emissions in industrial and residential environments. Line-borne interference is measured at the system terminal under standardized conditions as an RF interference voltage, radiated electromagnetic interference as RF interference radiation. The threshold values "A1" and "B1" are defined for the RF interference voltage in the range between 150 kHz and 30 MHz, and for RF interference radiation between 30 MHz and 2 GHz. As the SIMOREG K converters are used in industrial environments, the threshold value "A1" applies.

For compliance with the threshold value "A1", SIMOREG K devices must be provided with external interference suppressor filters.

Interference immunity describes the behavior of a device when subjected to electromagnetic interference. The demands and evaluation criteria for the behavior of devices in industrial environments are laid down in the standard EN 50 082-2.

Applications in industrial environments

In industrial environments, the interference immunity of devices must be very high. On the other hand, the requirements regarding interference emissions are more lenient.

SIMOREG K converters are components for electric drives, just like contactors and switches. Qualified personnel are required to integrate them into a drive system, which comprises at least the converter, motor cables and a motor. Usually, commutating reactors and fuses are also necessary. Proper installation also determines whether or not thresholds are observed. To limit interference emissions sufficiently to comply with the threshold value "A1", the converter must be configured with at least the corresponding suppressor filter and commutating reactor. Without interference suppressor filter, the interference emission of a SIMOREG K converter exceeds the threshold value "A1" defined in EN 55 011.

If the drive is part of a system, it is not initially required to meet specific interference emission demands. The EMC legislation specifies, however, that the system as a whole must be electromagnetically compatible with its environment.

If all control components of a system (e.g. automation devices) possess industry-standard interference immunity, it is not impe-

rative for each individual drive to observe the threshold value "A1".

Non-grounded systems

In certain branches of industry, non-grounded systems (IT systems) are used to raise the availability of the equipment. In case of a ground fault, no leakage current flows and production is able to continue. In conjunction with interference suppressor filters, however, a ground fault leads to a leakage current which could shut down the drives or even maybe destroy the suppressor filter. The product standard thus defines no threshold values for such systems. From an economic point of view, necessary interference suppression should be implemented on the grounded primary side of the feeding transformer.

EMC planning

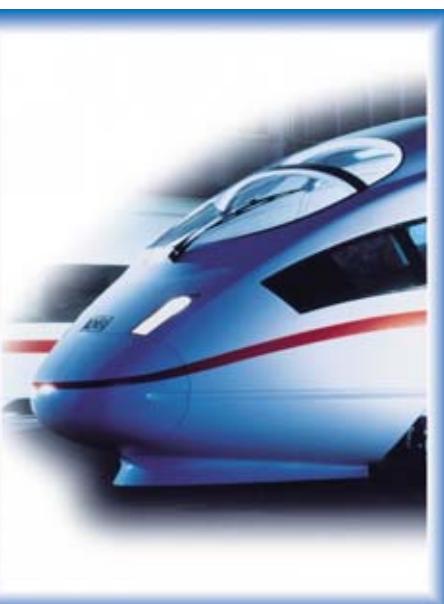
If two devices are not electromagnetically compatible, it is possible to either reduce the interference emission of the interference source or increase the immunity of the potentially susceptible device. Interference sources are usually devices in the field of power electronics with high current consumptions. Complex filter measures are necessary to reduce their interference emissions. The potentially susceptible devices are above all control devices and sensors, including the corresponding evaluation circuits. Less expenditure is necessary to raise the interference immunity of low-power devices. In industrial environments, therefore, measures to raise interference immunity are often more economical than measures to reduce interference emissions. To comply with threshold class A1 as defined by EN 55 011, for example, the RF interference voltage at the system terminal must not exceed max. 79 dB (μ V) between 150 and 500 kHz and max. 73 dB (μ V) between 500 kHz and 30 MHz (9 mV and 4.5 mV).

In industrial applications, the EMC of the devices should be based on a balanced mix of interference emission and interference immunity.

The least expensive suppression measure is spatial separation of the interference sources and the potentially susceptible devices, provided this is already taken into account during the planning of the machine or equipment. First of all, it is necessary to classify each device used as either an interference source or a potentially susceptible device. Interference sources in this context are, for example, converters and contactors. Typical potentially susceptible devices are automation devices, transducers and sensors.

In the cubicle, the different types of components (interference sources and the potentially susceptible devices) are kept apart from each other, where necessary by means of partition plates or installation in metal housings.

Cubicle Solutions in Practice



7/2	General
7/2	Special Cubicle Applications in Protection and Control
7/3	Cubicles for Transportation Systems
7/5	Cubicles for Control Systems



Cubicle Solutions in Practice

General

Overview



We are able to offer our customers individual system cubicle solutions. In this way, the customers are able to concentrate on their own expertise and can be confident of lasting success on the basis of standardized system solutions.

Customer-specific

We are able to offer our customers individual system cubicle solutions. In this way, the customers are able to concentrate on their own expertise and can be confident of lasting success on the basis of standardized system solutions.

Flexible delivery

We supply system cubicles at all integration levels:

- in parts
- as screwed or welded empty cubicles
- mechanically prepared
- pre-wired.

Global availability

We possess our own production facilities and cooperate with partner manufacturers all over the world, enabling us to satisfy the worldwide demand of global players.

7

Special Cubicle Applications in Protection and Control

Overview



Protection cubicle (substation control and protection)

The so-called protection cubicle is intended specifically for use in substation control and protection systems. It can be prepared with a 19-inch swing frame, power supply unit (device panel alongside the swing frame), cover plates, cable brackets and rear mounting plate.

Configurations with cable ducts and DIN mounting rails can also be supplied on request.

Cubicles for Transportation Systems**Overview**

CP2000

8MF cubicles in practical applications

Project-specific 8MF cubicles were developed and mechanically prepared to meet the requirements of the Siemens Transportation Systems division, one of the leading partners of international railway operators.

The 8MF cubicle offers convincing security, stability and quality, satisfying all the enhanced demands for railway applications. It has thus been the cubicle of choice for the projects DESIRO Slovenia, CP2000 Portugal, DESIRO South-West Train Great Britain and AVE Spain.

Project CP2000

For the CP2000 project, the 8MF frame profile was welded in accordance with the SGK 2.2 standard (see illustration below). The mechanical interior installation comprises:

- 19-inch expansion
- Device mounts
- Cable ducts
- Flexible cable conduits
- DIN mounting rails
- Air-conditioning with heat exchangers



Mechanical interior installation with 19-inch expansion, device mounts, cable ducts, flexible cable conduits, DIN mounting rails and air-conditioning with heat exchangers

8MF frame profile
welded in accordance with the SGK 2.2 standard

Detail showing cable
ducts and conduits
in an 8MF cubicle
with 19-inch
expansion

Cubicle Solutions in Practice

Cubicles for Transportation Systems



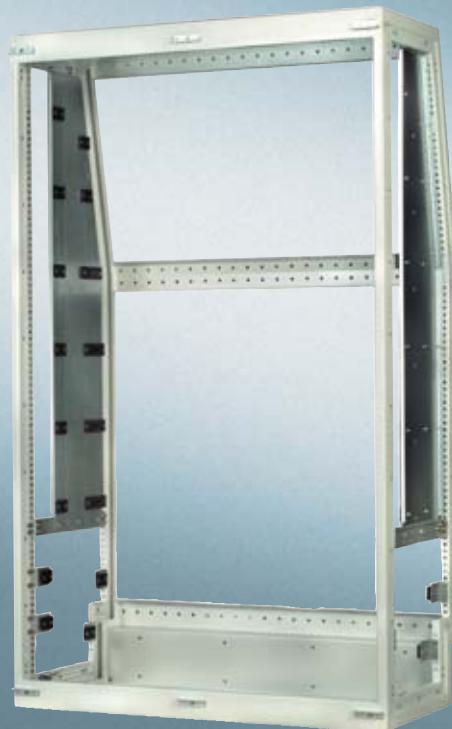
8MF system cubicle for AVE Spain
with special swing frame, device mounts,
cable ducts and DIN mounting rails

Project AVE

The high-speed trains from Siemens set new standards in high-speed rail travel. For this project, a specific, mechanically prepared cubicle was developed on the basis of our 8MF cubicles.

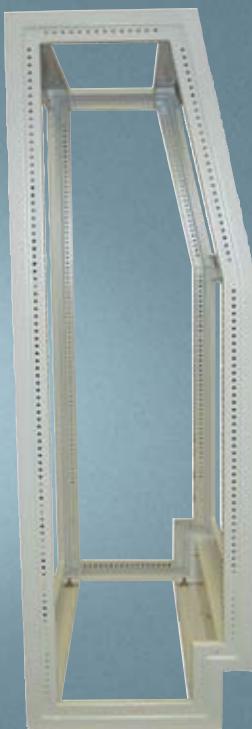
Features to be emphasized are the unconventional cubicle form and the sophisticated surface treatment of the individual elements.

Here, too, our design department was able to contribute valuable know-how to promote an optimum product development.



8MF system cubicle frame with
side installation plates and strain
relief

8MF frame profile in
accordance with the
SGK 2.3 welding standard



Cubicles for Control Systems

Overview**System cubicle suite with cooling units also in redundant configuration**

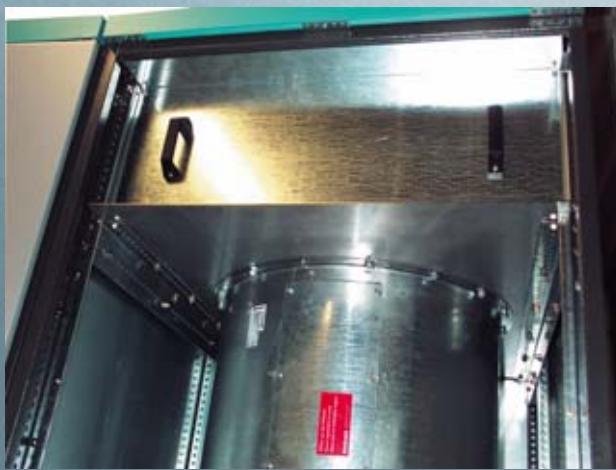
8MF6 cubicles are able to accommodate compact, high-performance heat exchanger components as single-circuit or multiple-circuit cooling systems with cooling capacities up to 100 kW.

Expansion and control system components have been developed on the basis of technical specifications and in cooperation with renowned partners of Siemens AG.

The illustration below shows a system for power stations with a cooling capacity of 20 kW. The heat exchanger is installed in an 8MF cubicle. A compartment is incorporated at the head of the heat exchanger.



System for power stations with a cooling capacity of 20 kW



Compartment at the head of the heat exchanger

Heat exchanger installed in an 8MF cubicle



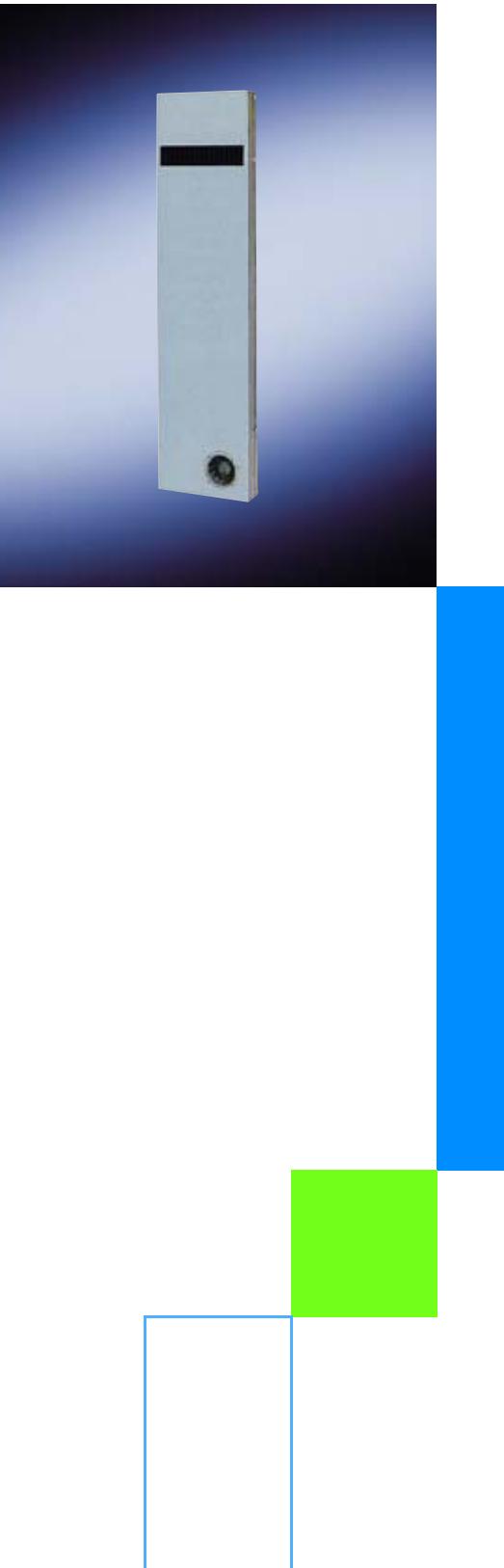
Cubicle Solutions in Practice

Notes

7

8

Cubicle Air-Conditioning



8/2	Introduction
8/2	Filter Fans
8/3	Air-Conditioning/Cooling Units
8/4	Heat Exchangers
8/5	Heater Units
8/5	Fan Heaters
8/6	19-inch Ventilator Modules
8/6	Thermostats

Cubicle Air-Conditioning

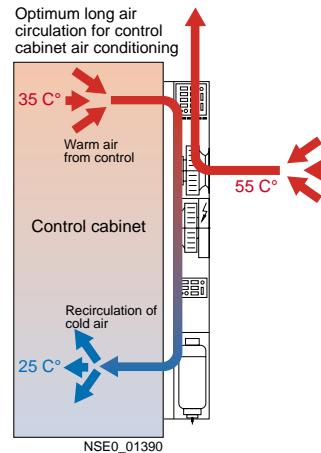
Introduction

Overview

Under certain ambient conditions (e.g. heat, cold, humidity, etc.) there is a risk of overheating or mould growth in cubicles. In such cases, it is expedient to provide cubicle air-conditioning, for which purpose the following components and units are available:

- Filter fans
- Air-conditioning/cooling units
- Heat exchangers
- Heater units/thermostats

When selecting individual air-conditioning components, the ambient temperature, the heat losses of the installed devices, the maximum permissible device temperatures and the heat dissipation capacity of the cubicle used are the factors to be considered. In addition, it is necessary to take into account the required degree of protection.



Benefits

The installation of air-conditioning components in SICUBE system cubicles serves to prevent the failure of switchgear and con-

trol systems and thus achieves a higher level of availability for machines and equipment.

Filter Fans

Benefits

Where heat dissipation via the surfaces of a cubicle and/or ventilation openings in the enclosure parts is not sufficient to remove the arising heat from a cubicle, filter fans are the next most favo-

rably priced alternative. It must be noted, however, that the cubicle temperature can never be lower than the ambient temperature.

Selection and Ordering Data

Size	Voltage	DT	Order No.	PS*	Weight per unit, approx. etwa
	V				kg
Filter fan with standard filter mat					
1	230 115	C C	8MR3 101-0MA 8MR3 101-0JA	1 unit 1 unit	0.550 0.550
2	230 115	C C	8MR3 102-0MA 8MR3 102-0JA	1 unit 1 unit	0.750 0.750
3	230 115	C C	8MR3 103-0MA 8MR3 103-0JA	1 unit 1 unit	1.750 1.750
4	230 115	C C	8MR3 104-0MA 8MR3 104-0JA	1 unit 1 unit	1.750 1.750
5	230 115	C C	8MR3 105-0MA 8MR3 105-0JA	1 unit 1 unit	3.000 3.000
6	230 115	C C	8MR3 106-0MA 8MR3 106-0JA	1 unit 1 unit	3.500 3.500
Size	Dimensions	DT	Order No.	PS*	Weight per unit, approx. etwa
	mm				kg
Outlet filter with standard filter mat					
1	105 x 105	D	8MR3 111-0AA	1 unit	0.100
2	150 x 150	D	8MR3 112-0AA	1 unit	0.150
3/4	250 x 250	D	8MR3 113-0AA	1 unit	0.500
5/6	325 x 325	D	8MR3 115-0AA	1 unit	0.800
Roof filter fan with standard filter mat					
1	417 x 367	D	8MR3 140-1DA	1 unit	6.800
2	530 x 350	D	8MR3 180-1DA	1 unit	8.500

Air-Conditioning/Cooling Units

Overview

Where ambient temperatures are higher than the permissible device temperatures, air-conditioning units must be used. All units operate with CFC-free refrigerants. Air-conditioning units remove humidity from the air within a cubicle.



Benefits

Cooling units for door or side panel installation and roof mounting

Two separate air circuits ensure that no ambient air enters the cubicle. High-performance radial fans provide for air circulation in the cubicle. Simple temperature control is provided with an integrated thermostat (roof-mounted units).

Side-mounted units

Intelligent standard electronics with maximum customer benefits:

- Test mode
- Temperature limits
- Delayed start-up
- Door contact function
- Alarm contact
- Local diagnosis
- UL-approved

Selection and Ordering Data

Output W	Voltage V	DT	Order No.	PS*	Weight per unit, approx. etwa kg
Air-conditioning unit for door and side panel installation (recessed)					
1000	230	C	8MR5 510-1TE	1 unit	45.000
1500		C	8MR5 515-1TE	1 unit	45.000
2000	400/440	C	8MR5 520-1TE	1 unit	55.000
2500		C	8MR5 525-1TE	1 unit	58.000
Air-conditioning unit for side mounting					
320	115/230	C	8MR4 032-1SA	1 unit	19.000
500		C	8MR4 050-1SA	1 unit	19.000
820		D	8MR5 082-1SA	1 unit	43.000
1100		D	8MR5 110-1SA	1 unit	53.000
1400		D	8MR5 140-1SA	1 unit	58.000
1400	400/440	D	8MR5 144-1SA	1 unit	58.000
1800		D	8MR5 180-1SA	1 unit	75.000
2500		D	8MR5 250-1SA	1 unit	75.000
3200	230	C	8MR4 320-2SB	1 unit	72.500
5000		C	8MR4 500-2SB	1 unit	75.000
Air-conditioning units for roof mounting					
810	230	D	8MR5 081-1DA	1 unit	40.000
1150		D	8MR5 115-1DA	1 unit	45.000
1600		D	8MR5 160-1DA	1 unit	50.000
3000	400	D	8MR5 300-1DA	1 unit	73.000
3200	400	C	8MR4 320-2DB	1 unit	73.500
5000		C	8MR4 500-2DB	1 unit	76.000



Cubicle Air-Conditioning

Heat Exchangers

Overview

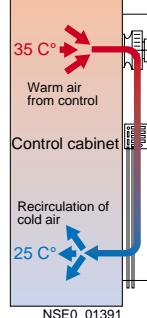
Air-air principle (8ME78)

Heat exchangers designed on the air-air principle function with two completely separate air circuits: an internal and an external circuit. A fan draws in cool external air. A second fan then directs the warmed cubicle air past a large-area finned partition element, which passes the heat to the external circuit.

Air-water principle (8MR5)

Heat exchangers designed on the air-water principle function with a single air circuit. A fan directs the warm cubicle air over the heat exchanger. The heat is passed to the water as the cooling medium, resulting in cooling of the air in the cubicle.

Selection and Ordering Data

Version	Voltage	Size	DT	Order No.	PS*	Weight per unit, approx. etwa
	V					kg
Heat exchangers						
	Aluminum, untreated Painted in RAL 7032	220-240 220-240	11/06 11/06	D D	8ME7 814-0 8ME7 814-1	1 unit 1 unit
	Aluminum, untreated	115	16/06	D	8ME7 842-0	19.000
	Aluminum, untreated Painted in RAL 7032	220-240	16/06	D	8ME7 844-0	19.000
	Aluminum, untreated	220-240	16/06	D	8ME7 844-1	19.000
	Aluminum, untreated	115	20/06	D	8ME7 862-0	22.000
	Aluminum, untreated Painted in RAL 7032	220-240	20/06	D	8ME7 864-0	22.000
		220-240	20/06	D	8ME7 864-1	22.000
Heat exchangers for side mounting						
	650 1000 1450 1500	230	500 x 200 x 100 500 x 200 x 100 1350 x 390 x 189 950 x 400 x 115	D D D D	8MR5 065-2WS 8MR5 100-2WS 8MR5 145-2WS 8MR5 150-2WS	1 unit 1 unit 1 unit 1 unit
	2450 3000 4000 5000	230	1350 x 390 x 189 950 x 400 x 190 860 x 560 x 137 1400 x 460 x 235	D D D D	8MR5 245-2WS 8MR5 300-2WS 8MR5 400-2WS 8MR5 500-2WS	31.000 21.000 31.000 32.000
Heat exchangers for roof mounting						
	1450 2100	230	600 x 390 x 140 720 x 465 x 190	D D	8MR5 145-2WD 8MR5 210-2WD	1 unit 1 unit
						21.000 30.000

Heat Exchangers

Benefits

Cubicle heater units are used to avoid function disturbances attributable to condensation formation or corrosion, as well as for cubicle temperature stabilization (maintaining of a minimum temperature). The design of the aluminum profile ensures an even temperature distribution and thus guarantees an optimum heating effect over the whole surface.

All units are also available in UL-approved versions and for special voltages.

Selection and Ordering Data

Output W	Voltage V	Series	DT	Order No.	PS*	Weight per unit, approx. etwa
						kg
Heater units						
10	110–250	HGK047	B	8MR2 110–0B	2 units	0.200
20		HGK047	B	8MR2 110–2B	2 units	0.400
30		HGK047	B	8MR2 110–3B	2 units	0.400
15	110–250	HG140	C	8MR2 130–1A	2 units	0.600
20		HG140	C	8MR2 130–3A	2 units	0.600
45		HG140	C	8MR2 130–4A	1 unit	0.300
60		HG140	C	8MR2 130–6A	1 unit	0.400
75		HG140	C	8MR2 130–7A	1 unit	0.500
100		HG140	C	8MR2 130–0A	1 unit	0.500
150		HG140	C	8MR2 130–5A	1 unit	0.700



Fan Heaters

Benefits

Where higher heating outputs (from 150 W) are required, fan heaters are used. The integrated fans provide for better air circulation and hereby achieve a more even air temperature distribution in the cubicle.

All units are also available in UL-approved versions and for special voltages.

Selection and Ordering Data

Output W	Voltage V	Series	DT	Order No.	PS*	Weight per unit, approx. etwa
						kg
Fan heaters						
250	220–250	HGL046	B	8MR2 122–4E	1 unit	1.000
400		HGL046	B	8MR2 122–8E	1 unit	1.300
350	230	CR027	C	8MR2 140–3C	1 unit	1.100
550		CR027	C	8MR2 140–5C	1 unit	1.100
600	230	HV030	C	8MR2 140–6C	1 unit	0.600
600		HVL030	C	8MR2 140–6D	1 unit	1.000



Cubicle Air-Conditioning

19-inch Ventilator Modules

Benefits

The compact, high-performance ventilator module serves to improve the air circulation in switchgear and server cubicles, providing targeted heat dissipation from installed 19-inch modules.

The natural convection of the cubicle surface is enhanced and the formation of hot spots can be avoided.

Selection and Ordering Data

Output W	Voltage V	Series	DT	Order No.	PS*	Weight per unit, approx. etwa kg
19-inch ventilator modules						
45	230	LE 019	C	8MR2 190-1A	1 unit	3.300



Thermostats

Benefits

Thermostats (as NO or NC devices) are used to regulate cooling units, filter fans and heat exchangers, as well as to trigger signals in case of excessive temperatures.

Selection and Ordering Data

Version	Temperature °C	Series	DT	Order No.	PS*	Weight per unit, approx. etwa kg
Thermostats						
NC	0 ... + 60 - 10 ... + 50 + 20 ... + 80	KTO 01140 KTO 01140 KTO 01140	B C C	8MR2 170-1BA 8MR2 170-1CA 8MR2 170-1DA	3 units 3 units 3 units	0.150 0.150 0.150
NO	0 ... + 60 - 10 ... + 50 + 20 ... + 80	KTS 01141 KTS 01141 KTS 01141	B C C	8MR2 170-1BB 8MR2 170-1CB 8MR2 170-1DB	3 units 3 units 3 units	0.150 0.150 0.150
Twin thermostat						
NC and NO	+ 20 ... + 80	ZR 011	C	8MR2 170-1E	2 units	0.180
Mechanical thermostat						
Changeover	+ 10 ... + 60 - 20 ... + 30	FZK 011 FZK 011	B C	8MR2 170-1A 8MR2 170-1B	2 units 1 unit	0.200 0.100



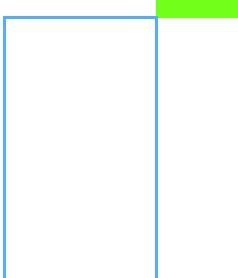

9

Special Colors



9/2

Special Colors for System Cubicles



Special Colors

Special Colors for System Cubicles

Overview



RAL colors

All colors except RAL 7032 are treated as special colors, for which an additional charge is calculated in accordance with the number of cubicles ordered.

Number of cubicles	Additional charge as % of the price of the ordered cubicle
1 to 3	20 %
4 to 10	18 %
11 to 20	10 %
> 20	no additional charge

This additional charge refers to a special color for the actual cubicle, excluding any expansion parts. The additional charge is always calculated on the basis of the IP40 version of the cubicle, even if the cubicle is ordered with degree of protection IP54.

Munsell colors

All Munsell colors are special colors. The additional charge is calculated on the same basis as for RAL colors.

Siemens standard colors (SN colors)

All colors except SN610 and SN611 are treated as special colors. The additional charge for other SN colors is calculated on the same basis as for RAL colors.

Ordering example

You wish to order two 8MF2 cubicles, height x width x depth = 2000 mm x 800 mm x 600 mm, for suite installation, degree of protection IP54, in special color RAL 3000.

This would require the following order:

Item	Qty.	Description	Order No.
1.1	2	Cubicle	8MF2 086-5R
1.2	2	Special color RAL 3000	

The additional charge for the special color amounts to 20% of price for the IP40 version of the cubicle (8MF2 086-4R).

Appendix

10/2	Ordering Notes
10/3	Standards and Approvals
10/4	Siemens contacts worldwide
10/5	Online Services
10/6	Customer Support
10/7	Subject Index
10/8	Order number index
10/16	Fax Form - Suggestions for Improvement
10/17	Fax Enquiry - Simply Copy, Complete and Return
10/18	Terms of Sales and Delivery, Export Regulations

Appendix

Ordering Notes

Special variants

The price list does not include prices for special dimensions. For technical reasons, it may not be possible to supply cubicles with certain dimensions. If you require special cubicle dimensions, and similarly in case of complex cubicle installations, please contact us to obtain an individual offer:

- Telephone
 - +49 (0) 341.44.70.471
 - +49 (0) 341.44.70.491
 - +49 (0) 341.44.70.493

- Fax
 - +49 (0) 3 41.44.70.4 90

- Email
 - sicube.hotline@boe.siemens.de

Inquiries for standard variants can also be submitted via the Internet:

<http://www.siemens.com/sicube>

If you have any inquiries regarding special variants, you are kindly asked to have ready the following information:

- Height x width x depth in mm
- Degree of protection
- Design of the enclosure
(e.g. front door, ventilation roof, rear panel, 2 side walls, plinth height H = 100 mm ...)
- Internal components
- Further requirements

Ordering

Please send your written purchase order to the appropriate Siemens representation.

Small orders

When small orders are placed, the costs associated with order processing are greater than the order value. We recommend therefore that you combine several small orders. Where this is not possible, we unfortunately find it necessary to charge a processing supplement of € 20.-- to cover our costs for order processing and invoicing for all orders with a net goods value of less than € 250.--.

Transport and packaging

The following terms apply to orders for 8MC and 8MF cubicle systems received from within Germany:

- The charge for transport and packaging is calculated as 8% of the order value, minimum € 25.--.
- Orders with a value over € 5000.-- are delivered carriage paid, including packaging.

Transport and packaging will be charged for all the other products as actually incurred.

Standards and Approvals

Overview

Standard	von	
IEC 62208	2002-22-01	Empty enclosures for low-voltage switchgear and controlgear assemblies - General requirements
EN 50298	1999-06-01	Empty enclosures for low-voltage switchgear and controlgear assemblies - General requirements
DIN 41488-1	1971-03-01	Electrical engineering: Spacing dimensions for cubicles, telecommunications engineering and electronics (standard withdrawn)
DIN 41488-2	1972-08-01	Electrical engineering: Spacing dimensions for cubicles, telecommunications engineering and electronics
DIN 43656	1979-01-01	Indoor electrical switchgear and high-voltage switchgear up to 36 kV; coloring
DIN 43668	1964-11-01	Keys for the doors of electrical switchgear cubicles and cabinets; double-bit keys

Quality test certificate/declaration of conformity in accordance with DIN 6700

This specification describes quality assurance rules pertaining to welded joints for assemblies to be used in rail vehicles.

The 8MF special cubicle frames (not the standard versions) satisfy the requirements of DIN 6700, assembly class C2 - "Rail vehicle assemblies with high safety relevance".

Corresponding quality, manufacturing and documentation requirements are to be agreed upon separately between the customer and manufacturer.

Appendix

Siemens contacts worldwide

Siemens contacts worldwide

The screenshot shows the Siemens website's contact search interface. The top navigation bar includes links for 'Find a team' (highlighted), 'Contact for sectors', 'Contact for products', and 'Search'. A 'Link Box' button is also present. The main content area is titled 'Local Partners Worldwide' and 'Germany'. It asks if the user is looking for a local contact for Automation and Drives products. It then prompts the user to select a city near their location, with 'Berlin' selected. The user is also asked to name the best contact for their question, with 'Sales' chosen. A 'Next >' button is visible at the bottom right.

This screenshot shows the next step in the contact search process, where the user has selected 'Contacts by sector'. The title is 'Please select a sector'. It features three tabs: 'Select an areasector' (selected), 'Select city', and 'Your contact(s)'. Below these tabs is a 'Search a sector' input field. A list of Siemens sectors is provided, including Water Systems, Visualization Systems, Electrical Vehicles, Material Flow Controlling, Distribution and Logistics, Assembly Control, Paper Machines, Production Automation in the Automotive Industry and Suppliers, Production Logistics and Control Systems, Production Machines, Textiles, Plastics, Metal Forming, Wood, Glass, Ceramic Processing, Stone processing, Packaging, Printing, Lifting/Hoisting, Process Control Systems, and Feeding/Fast Assembly. A note at the bottom states: '* This list contains only Siemens sectors from the range of sectors of Automation and Drive Systems.' A 'Next >' button is located at the bottom right.

This screenshot shows the final step in the contact search process, where the user has selected 'Contacts by product'. The title is 'Please select a Siemens product group'. It features three tabs: 'Select a product' (selected), 'Select city', and 'Your contact(s)'. Below these tabs is a 'Search a Product' input field. A list of Siemens product groups is provided, including Drive Technology, Automation systems, Communication solutions, Low-Voltage Controls, Electrical Installation Technology, Process automation, Sensor, measuring and testing technology, Power supplies, Safety systems - Safety integrated, and Technical solutions and products for drives. A note at the bottom states: '* This list contains products and solutions provided by Siemens Automation and Drives.' A 'Next >' button is located at the bottom right.

At:

<http://www.siemens.com/automation/partner>

you can find details of Siemens contact partners worldwide responsible for particular technologies.

You can obtain in most cases a contact partner for

- Technical Support,
- Spare parts/repairs,
- Service,
- Training,
- Sales or
- Consultation/engineering.

You start by selecting a

- Country,
- Product or
- Sector.

By further specifying the remaining criteria you will find exactly the right contact partner with his/her respective expertise.

Online Services

A&D in the WWW

The screenshot shows the Siemens Automation and Drives website. The top navigation bar includes links for Home, Products & Solutions, News Center, e-commerce, and Support. A search bar is also present. The main content area features a large image of a target with arrows hitting it, followed by sections for 'Automation Systems' and 'Drives'. Under 'Automation Systems', there are links for Industrial Automation Systems, SIMATIC, Motion Control Systems, SIMOTION, Process Control Systems, SIMATIC NET, Operator Control and Monitoring Systems, SIMATIC HW, PC-Based Automation, Industrial-PC, Industrial-Microcomputer SIMCOMP, SIMATIC-based technology, SIMATIC Cards / Cables, RT-Industrial Systems MOBY, Display Solutions, Siemens Automation Solution Proselect, and Process Automation. Under 'Drives', there are links for AC Motors, DC Motors, Distributed Drive Solutions, AC Converters, DC Converters, Engineering Software, Contaminant Components, and SIMATIC Solutions Provider.

Product selection using the interactive catalog

The screenshot shows the Siemens Interactive Catalog website. The top navigation bar is identical to the main website. The main content area features a large image of a person fishing from a boat. On the right side, there is a sidebar with links for 'Automation and Drives', 'Products and Solutions', 'Locales', and 'About Siemens'. Below the sidebar, there are links for 'Catalog CA 01', 'Catalog ET 01', 'Catalog SD 01', and 'Ordering Catalogs'.

Easy Shopping with the A&D Mall

The screenshot shows the Siemens A&D Mall website. The top navigation bar includes links for Home, Products & Solutions, News Center, e-commerce, and Support. A search bar is also present. The main content area features a welcome message: "Welcome to the catalog and online ordering system of Siemens Automation and Drives". It also includes a note: "Should your country not be shown in the list above, you will find further info in our international guest catalog." A list of countries is provided with their respective flags. To the right, there is a large image of industrial equipment.

A detailed knowledge of the range of products and services available is essential when planning and configuring automation systems.

It goes without saying that this information must always be fully up-to-date.

The Siemens Automation and Drives Group (A&D) has therefore built up a comprehensive range of information in the World Wide Web, which offers quick and easy access to all data required.

Under the address

<http://www.siemens.com/automation>

you will find everything you need to know about products, systems and services.

Detailed information together with convenient interactive functions:

The interactive catalog CA 01 covers more than 80.000 products and thus provides a full summary of the Siemens Automation and Drives product base.

Here you will find everything that you need to solve tasks in the fields of automation, switchgear, installation and drives. All information is linked into a user interface which is easy to work with and intuitive.

After selecting the product of your choice you can order at the press of a button, by fax or by online link.

Information on the interactive catalog CA 01 can be found on the Internet under

<http://www.siemens.com/automation/ca01>

or on CD-ROM or DVD.

The A&D Mall is the virtual department store of Siemens AG in the Internet. Here you have access to a huge range of products presented in electronic catalogs in an informative and attractive way.

Data transfer via EDIFACT allows the whole procedure from selection through ordering to tracking of the order to be carried out online via the Internet.

Numerous functions are available to support you.

For example, powerful search functions make it easy to find the required products, which can be immediately checked for availability. Customer-specific discounts and preparation of quotes can be carried out online as well as order tracking and tracing.

Please visit the A&D Mall on the Internet under:

<http://www.siemens.com/automation/mall>

Appendix

Customer Support



In the face of harsh competition you need optimum conditions to keep ahead all the time:

A strong starting position. A sophisticated strategy and team for the necessary support - in every phase.

Service & Support from Siemens provides this support with a complete range of different services for automation and drives.

In every phase: from planning and startup to maintenance and upgrading.

Our specialists know when and where to act to keep the productivity and cost-effectiveness of your system running in top form.

Online Support



The comprehensive information system available round the clock via Internet ranging from Product Support and Service & Support services to Support Tools in the Shop.

<http://www.siemens.com/automation/service&support>

Technical Consulting



Support in the planning and designing of your project from detailed actual-state analysis, target definition and consulting on product and system questions right to the creation of the automation solution.²⁾

Technical Assistance



Expert technical assistance¹⁾ for Low-voltage controls and electrical installation.

Tel.: +49 (9 11) 8 95-59 00
Fax: +49 (9 11) 8 95-59 07

E-Mail: technical-assistance@siemens.com

1) Contact:

Technical assistance for product selection · Old/new coding · Competitor coding · Special versions · Special requirements · Sales promotion (Infoline).
Your regional contacts for sales support (prices, discounts, delivery times).
Technical Support for commissioning support and after-sales services.

Configuration and software engineering

Support in configuring and developing with customer-oriented services from actual configuration to implementation of the automation project.²⁾



Technical Support



Competent consulting in technical questions covering a wide range of customer-oriented services for all our products and systems.

Tel.: +49 (180) 50 50 222
Fax: +49 (180) 50 50 223

E-Mail: adsupport@siemens.com

Service on site



With Service On Site we offer services for startup and maintenance, essential for ensuring system availability.

Tel.: +49 (180) 50 50 444³⁾

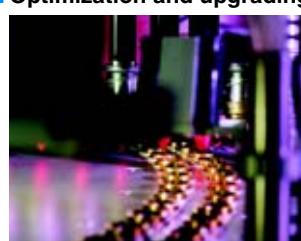
Repairs and spare parts



In the operating phase of a machine or automation system we provide a comprehensive repair and spare parts service ensuring the highest degree of operating safety and reliability.

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Optimization and upgrading



To enhance productivity and save costs in your project we offer high-quality services in optimization and upgrading.²⁾

2) Sprechen Sie Ihren Vertriebspartner in Ihrer Region bei Fragen zu diesen Leistungen an. Den richtigen Ansprechpartner vermittelt Ihnen auch unsere Helpline (Tel.: +49 (180) 50 50 111) oder unsere Internet-Seite.

3) For country-specific telephone numbers go to our Internet site at:
<http://www.siemens.com/automation/service&support>

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Annex

Fax form - Suggestions for improving the catalog

To

Siemens AG
 A&D CD Marketing Management
 Catalog Management
 Fax. +49 (91 31) 74 28 99

Your address

Name

Position

Company/Department

Street/No.

ZIP code/City

Tel. No./Fax

We want to know what you think!

We would like you to view the LV 10 Catalog as an important tool which you enjoy using. For this reason, we are constantly striving to improve the catalog.

That's why we request you to fill out this questionnaire and fax it to us.

Thank you very much in advance!

Please indicate your personal evaluation of the following points by giving marks from 1 (= good) to 6 (= poor):

Do the contents of the catalog meet your requirements?

Could you do without dimension drawings in the catalog if we supplied them separately on CD-ROM or on the Internet?

Is it easy to find the information you require?

What is your overall impression of the catalog?

Are the contents written in a way which is easy to understand?

Do the technical details suit your requirements?

What is your opinion on the quality of the photos, graphics and tables?

Did you notice any errors?

**Fax Enquiry -
Simply Copy, Complete and Return**

From
Company _____

Dept. _____
Name _____
Tel. _____
Fax _____

Order to Representatives

--

General

Cubicle typ 8MC 8MF
Single cubicles Cubicle group

Degree of protection

IP 40 IP 54

Coating

Ergo grey SN 611
RAL 7032
other RAL colour _____

Type of lock of doors

Two-way key with 3mm pins
Door handle
Twist handle
Latch handle
Special _____

Please describe further details or special features with regard to these cubicles/ cubicle groups on a separate sheet of paper in plain text!

Place, date _____

Signature _____

	Cubicle 1	Cubicle 2	Cubicle 3
Order designation			
Special size (H x W x D) in dm			
Enclosure			
Front			
Door single wing			
<input checked="" type="checkbox"/> Right handed			
<input type="checkbox"/> Left handed			
Door double wing			
Lock in right door			
Lock in left door			
asymmetrically divided (attachment)			
Pocket for circuit diagram metal/plastic			
in the right door			
in the left door			
Multi purpose strips			
Door catch			
Cutouts (attachment)			
Rear			
Rear panel			
Door, single wing			
<input checked="" type="checkbox"/> Right handed			
<input type="checkbox"/> Left handed			
Door, double wing			
Lock in right door			
Lock in left door			
asymmetrically divided (attachment)			
Pocket for circuit diagram metal/plastic			
in the right door			
in the left door			
Multi purpose strips			
Door catch			
Cutouts (attachment)			
Top			
Solid top plate			
Perforated top plate			
Venting roof			
Transport rails			
Eyebolts			
Special version (attachment)			
Side			
Left side panel			
Right side panel			
Left partition			
Right partition			
Special version (attachment)			
Bottom			
Base plate split once			
Base height 100 mm			
Base height 200 mm			
Transport rails			
Special version (attachment)			
Interior configuration			
Mounting plate (front/rear)			
Swing frame (...HE)			
19" track of punched holes (front/rear)			
Cubicle light (front/rear with Watt)			
Door position switch (front/rear)			
Middle bar			
Supporting bar for cubicle height			
Supporting bar for cubicle width			
Supporting bar for cubicle depth			
Special version e.g. slide rail, telescopic rail, etc. (attachment)			

Appendix

Terms and conditions of sale and delivery Export regulations

Terms and conditions of sale and delivery

By using this catalog you can acquire hardware and software products described therein from the Siemens AG subject to the following terms. Please note! The scope, the quality and the conditions for supplies and services, including software products, by any Siemens entity having a registered office outside of Germany, shall be subject exclusively to the General Terms and Conditions of the respective Siemens entity.

For customers with a seat or registered office in the Federal Republic of Germany

The „General Terms of Payment“ as well as the „General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry“ shall apply.

For software products, the „General License Conditions for Software Products for Automation and Drives for Customers with a Seat or registered Office in Germany“ shall apply.

For customers with a seat or registered office outside of Germany

The „General Terms of Payment“ as well as the „General Conditions for Supplies of Siemens, Automation and Drives for Customers with a Seat or registered Office outside of Germany“ shall apply.

For software products, the „General License Conditions for Software Products for Automation and Drives for Customers with a Seat or registered Office outside of Germany“ shall apply.

General

The prices are in € (Euro) ex works, exclusive packaging.

The sales tax (value added tax) is not included in the prices. It shall be debited separately at the respective rate according to the applicable legal regulations.

In addition to the prices of products which include silver, plump, aluminum and/or copper, surcharges may be calculated if the respective limits of the notes are exceeded. The respective note (e.g. source: German newspaper „Handesblatt“ in category „deutsche Edelmetalle“ and „Metallverarbeiter“) for silver („verarbeitetes Silber“), plump („Blei in Kabeln“), aluminum („Aluminium in Kabeln“) and copper („Elektrolytkupfer“, „DEL-Notiz“) respectively, of the day the order or rather the on call order is received, is decisive for the calculation of the surcharges.

Surcharges of copper shall be calculated for Drives at a note („DEL-Notiz“) above EUR 225,00 / 100 Kg and for chokes / transformers above EUR 150,00 / 100 kg.

Surcharges shall be charged based on the quantities of the materials which are contained in the relevant products.

Prices are subject to change without prior notice. We will debit the prices valid at the time of delivery.

The dimensions are in mm. In Germany, according to the German law on units in measuring technology, data in inches only apply to devices for export.

Illustrations are not binding.

Insofar as there are no remarks on the corresponding pages, - especially with regard to data, dimensions and weights given - these are subject to change without prior notice.

Comprehensive Terms and Conditions of Sale and Delivery are available free of charge from your local Siemens business office under the following Order Nos.:

- 6ZB5310-0KR30-0BA0
(for customers based in the Federal Republic of Germany)
- 6ZB5310-0KS53-0BA0
(for customers based outside of the Federal Republic of Germany)

or download them from the Internet:

<http://www.siemens.com/automation/mall>

(Germany: A&D Mall Online-Help System)

Export regulations

The products listed in this catalog / price list may be subject to European / German and/or US export regulations.

Therefore, any export requiring a license is subject to approval by the competent authorities.

According to current provisions, the following export regulations must be observed with respect to the products featured in this catalog / price list:

AL	Number of the <u>German Export List</u> . Products marked other than "N" require an export license. In the case of software products, the export designations of the relevant data medium must also be generally adhered to. Goods labeled with an " <u>AL not equal to N</u> " are subject to a European or German export authorization when being exported out of the EU.
ECCN	Export Control Classification Number. Products marked other than "N" are subject to a reexport license to specific countries. In the case of software products, the export designations of the relevant data medium must also be generally adhered to. Goods labeled with an " <u>ECCN not equal to N</u> " are subject to a US re-export authorization.

Even without a label or with an "AL: N" or "ECCN: N", authorization may be required due to the final destination and purpose for which the goods are to be used.

The deciding factors are the AL or ECCN export authorization indicated on order confirmations, delivery notes and invoices.

Errors excepted and subject to change without prior notice.

A&D/VuL/En 06.03.06

Catalogs of the Automation and Drives Group (A&D)

Further information can be obtained from our branch offices listed
in the appendix or at www.siemens.com/automation/partner

Automation and Drives	<i>Catalog</i>	
Interactive catalog on CD-ROM and on DVD		
• The Offline Mall of Automation and Drives	CA 01	
Automation Systems for Machine Tools		
SINUMERIK & SIMODRIVE	NC 60	
SINUMERIK & SINAMICS	NC 61	
Drive Systems		
<u>Variable-Speed Drives</u>		
SINAMICS G130 Drive Converter Chassis Units, SINAMICS G150 Drive Converter Cabinet Units	D 11	
SINAMICS G110 Inverter Chassis Units	D 11.1	
SINAMICS GM150/SINAMICS SM150	D 12	
Medium-Voltage Converter 0.6 MVA to 28 MVA		
SINAMICS S120	D 21.1	
Vector Control Drive System		
SINAMICS S120 Servo Control Drive System	D 21.2	
SINAMICS S150 Drive Converter Cabinet Units	D 21.3	
Asynchronous Motors Standardline	D 86.1	
DC Motors	DA 12	
SIMOREG DC MASTER 6RA70 Digital Chassis Converters	DA 21.1	
SIMOREG K 6RA22 Analog Chassis Converters	DA 21.2	
SIMOREG DC MASTER 6RM70 Digital Converter Cabinet Units	DA 22	
SIMOVERT PM Modular Converter Systems	DA 45	
SIEMOSYN Motors	DA 48	
MICROMASTER 410/420/430/440 Inverters	DA 51.2	
MICROMASTER 411/COMBIMASTER 411	DA 51.3	
SIMOVERT MASTERDRIVES Vector Control	DA 65.10	
SIMOVERT MASTERDRIVES Motion Control	DA 65.11	
Synchronous and asynchronous servomotors for SIMOVERT MASTERDRIVES	DA 65.3	
SIMODRIVE 611 universal and POSMO	DA 65.4	
<u>Low-Voltage Three-Phase-Motors</u>		
Squirrel-Cage Motors, Totally Enclosed, Fan-Cooled	M 11	
<u>Automation Systems for Machine Tools SIMODRIVE</u>	NC 60	
• Main Spindle/Feed Motors		
• Converter Systems SIMODRIVE 611/POSMO		
<u>Automation Systems for Machine Tools SINAMICS</u>	NC 61	
• Main Spindle/Feed Motors		
• Drive System SINAMICS S120		
<u>Drive and Control Components for Hoisting Equipment</u>	HE 1	
Electrical Installation Technology		
ALPHA Small Distribution Boards and Distribution Boards	ETA1	
<i>PDF: ALPHA 8HP Molded-Plastic Distribution System</i>	ETA3	
<i>PDF: ALPHA FIX Terminal Blocks</i>	ETA5	
BETA Modular Installation Devices	ET B1	
DELTA Switches and Outlets	ET D1	
GAMMA Building Management Systems	ET G1	
Human Machine Interface Systems SIMATIC HMI	ST 80	
Industrial Communication for Automation and Drives		<i>Catalog</i>
		IK PI
Low-Voltage		
Controls and Distribution – SIRIUS, SENTRON, SIVACON		LV 1
Controls and Distribution – Technical Information SIRIUS, SENTRON, SIVACON		LV 1 T
SIDAC reactors and filters		LV 60
SIVACON 8PS Busbar trunking systems CD, BD01, BD2 up to 1250 A		LV 70
Motion Control System SIMOTION		PM 10
Process Instrumentation and Analytics		
Field Instruments for Process Automation		FI 01
Measuring Instruments for Pressure, Differential Pressure, Flow, Level and Temperature, Positioners and Liquid Meters		
<i>PDF: Indicators for panel mounting</i>		MP 12
SIREC Recorders and Accessories		MP 20
SIPART, Controllers and Software		MP 31
SIWAREX Weighing Systems		WT 01
Continuous Weighing and Process Protection		WT 02
Process Analytical Instruments		PA 01
<i>PDF: Process Analytics, Components for the System Integration</i>		PA 11
SIMATIC Industrial Automation Systems		
SIMATIC PCS Process Control System		ST 45
Products for Totally Integrated Automation and Micro Automation		ST 70
SIMATIC PCS 7 Process Control System		ST PCS 7
Add-ons for the SIMATIC PCS 7 Process Control System		ST PCS 7.1
Migration solutions with the SIMATIC PCS 7 Process Control System		ST PCS 7.2
pc-based Automation		ST PC
SIMATIC Control Systems		ST DA
SIMATIC Sensors		FS 10
SIPOS Electric Actuators		
Electric Rotary, Linear and Part-turn Actuators		MP 35
Electric Rotary Actuators for Nuclear Plants		MP 35.1/2
Systems Engineering		
Power supplies SITOP power		KT 10.1
System cabling SIMATIC TOP connect		KT 10.2
System Solutions		
Applications and Products for Industry are part of the interactive catalog CA 01		
TELEPERM M Process Control System		
<i>PDF: AS 488/TM automation systems</i>		PLT 112

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