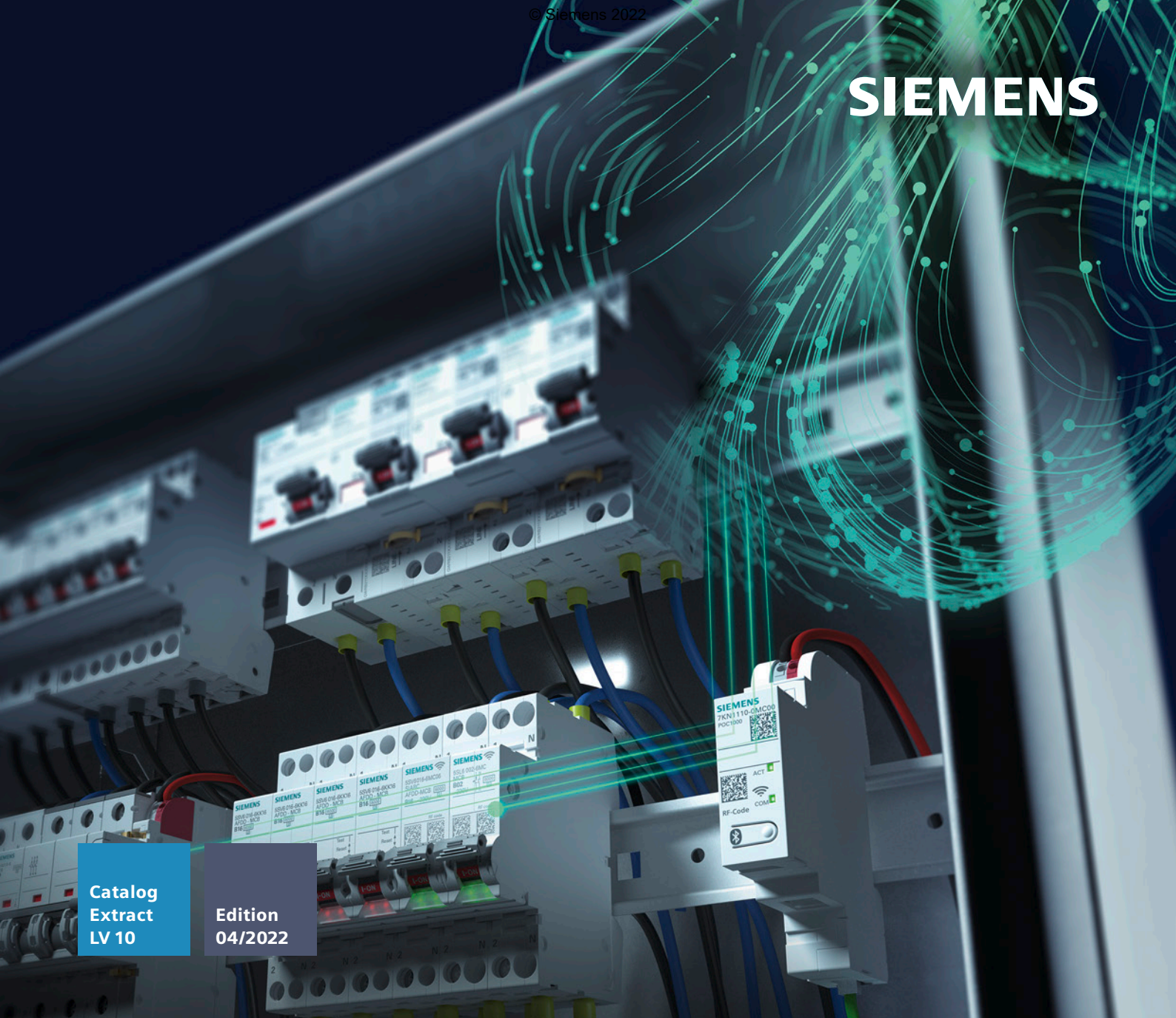
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Catalog Extract LV 10

Edition 04/2022

SENTRON • SIVACON • ALPHA

Low-Voltage Power Distribution and Electrical Installation Technology

System Cubicles, System Lighting and System Air-Conditioning

siemens.com/lowvoltage

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Innovative solutions for industrial controls and power distribution

In ensuring smooth operation of digital production environments and in the construction and operation of industrial or commercial buildings, the underlying power distribution and industrial controls are decisive:

SIRIUS, SENTRON, SIVACON and ALPHA provide a broad portfolio of systems and components for this purpose that can be used for standard-compliant, requirement-based electrification.

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www.siemens.de/lowvoltage/kontakt

Catalog LV 10 · 04/2022

You will find the latest edition and all future editions in the Siemens Industry Online Support at
www.siemens.com/lowvoltage/catalogs

Refer to the Industry Mall for current prices
www.siemens.de/lowvoltage/mall

The products and systems described in this catalog are manufactured/distributed under application of a certified quality management system in accordance with EN ISO 9001 (for the Certified Registration Nos., see **www.siemens.com/system-certificates/ep**).
The certificate is recognized by all IQNet countries.

Technical specifications
The technical specifications are for general information purposes only. Always heed the operating instructions and notices on individual products during assembly, operation and maintenance.

All illustrations are not binding.

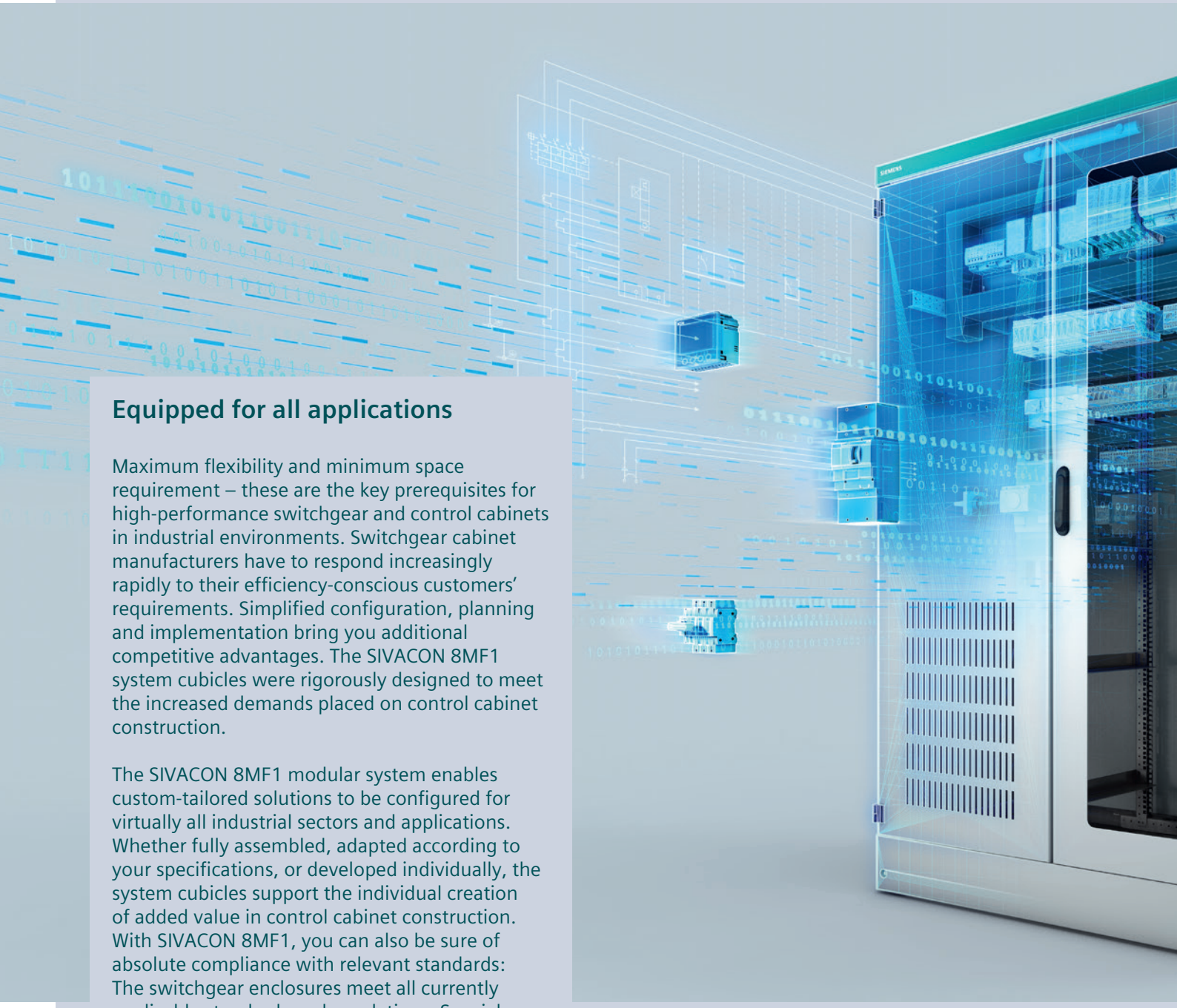
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Low-Voltage Power Distribution and Electrical Installation Technology

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Equipped for all applications

Maximum flexibility and minimum space requirement – these are the key prerequisites for high-performance switchgear and control cabinets in industrial environments. Switchgear cabinet manufacturers have to respond increasingly rapidly to their efficiency-conscious customers' requirements. Simplified configuration, planning and implementation bring you additional competitive advantages. The SIVACON 8MF1 system cubicles were rigorously designed to meet the increased demands placed on control cabinet construction.

The SIVACON 8MF1 modular system enables custom-tailored solutions to be configured for virtually all industrial sectors and applications. Whether fully assembled, adapted according to your specifications, or developed individually, the system cubicles support the individual creation of added value in control cabinet construction. With SIVACON 8MF1, you can also be sure of absolute compliance with relevant standards: The switchgear enclosures meet all currently applicable standards and regulations. Special versions, and control cabinets with various special certifications and specific approvals, as well as variants adapted to specific sectors, can be individually developed.

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System Cubicles, System Lighting and System Air-Conditioning



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- Thermostats 17/43
- Hygrostats and hygrotherms 17/45

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A multitude of additional information ...

Information + ordering

All the important things at a glance

For information about system cubicles, system lighting and system air-conditioning, please visit our website **www.siemens.com/sivacon-8mf**

Your product in detail

The Siemens Industry Online Support (SIOS) provides comprehensive information **www.siemens.com/lowvoltage/product-support**

- Technical basic information
  - SIVACON 8MF1 system cubicle **(109767386)**
- Brochure
  - SIVACON 8MF1 system cubicles – As versatile as your requirements **(109744677)**

The relevant tender specifications can be found at **www.siemens.com/lowvoltage/tenderspecifications**

Use our conversion tool for quick and easy conversion to Siemens products **www.siemens.com/conversion-tool**

Everything you need for your order

Refer to the Industry Mall for an overview of your products

- System cubicles, system lighting and system air-conditioning **sie.ag/339cQB9**

Direct forwarding to the individual products in the Industry Mall by clicking on the article number in the catalog or by entering this web address incl. article number **www.siemens.com/product?Article No.**

Configurators

The configurator reduces the time and effort required in the planning and ordering process, and allows for individual adaptations. Configure your SIVACON 8MF1 system cubicle at **www.siemens.com/lowvoltage/8mf1-configurator**

The following are additionally available for your configured SIVACON 8MF1 system cubicle:

- Parts lists
- 2D data
- 3D data

The fast track to the experts

Contact persons in your region

We offer a comprehensive portfolio of services. You can find your local contacts at **www.siemens.com/lowvoltage/systems/contact**

You can find further information on services at **www.siemens.com/service-catalog**

Competent expert advice on technical questions with a wide range of demand-optimized services for all our products and systems.

Assistance with technical queries is provided at **www.siemens.com/support-request**

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… can be found in our online services

Commissioning + operation

SIMARIS therm

The SIMARIS therm calculation tool helps you to easily and precisely dimension the heat dissipation of your control panels, simply by entering the ambient air temperature and selecting the relevant devices in the panel. If necessary, you can immediately select the necessary cooling devices and air conditioners. You can also define the necessary heating power for anti-condensation heating
www.siemens.com/simaristherm

Your product in detail

The Siemens Industry Online Support (SIOS) provides detailed technical information
www.siemens.com/lowvoltage/product-support

- Operating instructions
- Certificates

Comprehensive mobile support via the Siemens Industry Online Support app available for download from the **App Store** and **Play Store**
You will find further information under:
www.siemens.com/support-app

Provision of 3D data (step and u3d data formats)

- Siemens Industry Mall
  www.siemens.com/lowvoltage/mall
- Image database
  www.siemens.com/lowvoltage/picturedb

Engineering data for CAD or CAE systems are available in the CAx Download Manager at
www.siemens.com/cax

Manuals

Manuals are available for downloading in Siemens Industry Online Support (SIOS) at
www.siemens.com/lowvoltage/manuals

- Operating manual
  – Software SIMARIS therm planning tool **(109744553)**

Technical overview – System cubicles, system lighting and system air-conditioning

The fast way to get you to our online services

This page provides you with comprehensive information and links on system cubicles, system lighting and system air-conditioning
www.siemens.com/lowvoltage/product-support (109769091)

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System overview

System Cubicles, system lighting and system air conditioning

For a complete and valid configuration of your system cubicle, please use our online configurator at www.siemens.com/lowvoltage/8mf1-configurator

SIVACON 8MF1 basic cubicles


Basic cubicles, IP40


Basic cubicles, IP55


Ventilated cubicles, IP20


Data cubicles, IP40


Earthquake-resistant cubicles, IP40

SIVACON 8MF1 configurable enclosures – Frames


Standard frames


Corner frames

Frame accessories


Bases

Separators


Trim strips


Transport eyebolts


Transport brackets


Cubicle suites

SIVACON 8MF1 configurable enclosures – Enclosures

Section doors


Ventilated doors

Glass doors

Door halves


Compartment doors

Side walls/ rear walls


Rooves


Floors

Enclosure accessories

Roof trays

Covers


Grilles

Strips


Hinges


Rotary handles


Door position switches


Door stays

Note:
You will find a detailed range of accessories with the basic units and in the Accessories section.

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SIVACON 8MF1 configurable enclosures – Interior installation


Mounting panels


Mounting plates


Partitions


Shelves


Busbars

Interior installation accessories


Brackets


Groundings


Grounding screws

SIVACON 8MF1 configurable enclosures – 19-inch expansion


Swing frames


Fixed-mounted

19-inch expansion accessories


Covers


Universal supports


Device panels

SIVACON 8MF/8MR system lighting – LED lights


LED lights with motion detector


LED lights with On/Off switch

LED lights accessories


Cables, plugs and sockets

SIVACON 8MF/8MR system lighting – Slimline lights


Slimline light with motion detector


Slimline light with On/Off switch

SIVACON 8MR system air-conditioning


Filters and filter fans


Air conditioners/ cooling devices


Heat exchangers


Heater units


Fan heaters


Thermostats, hygrostats, hygrotherms

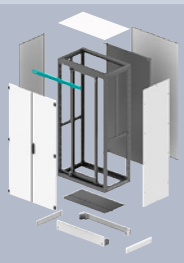
Note:
You will find a detailed range of accessories with the basic units and in the Accessories section.

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System overview

SIVACON 8MF1 system cubicles





		Standard types		Individual types
Available dimensions				
Height	mm	1800 | 2000 | 2200		Special dimensions available on request (max. 2400 mm)
Width	mm	400 | 600 | 800 | 900 | 1000 | 1200		Special dimensions available on request (max. 1600 mm)
Depth	mm	400 | 500 | 600 | 800 | 1000		Special dimensions available on request (max. 1200 mm)
Approvals				
Standards		IEC 62208		IEC 62208
Protection				
Degree of protection		IP20 | IP40 | IP55 | Shock resistance IK09 | Glass doors IK08		IP20 | IP21 | IP40 | IP41 | IP42 | IP55 | Shock resistance IK09 | Glass doors IK08
Protection class		I		I
Enclosure				
Material		Sheet steel		Sheet steel
Surface		Zinc-plated | Powder-coated		Zinc-plated | Powder-coated
Color		RAL 7035 (light gray)		All RAL colors available, other color palettes available on request
Corrosivity category acc. to EN ISO 12944-2		C3 medium, paint thickness 100 µm (+/-25 µm)		Up to C5-M very high (marine), paint thickness 150 µm (+/-25 µm)
Material thickness				
Frame		2.5 mm		2.5 mm
Enclosure (without doors)		1.5 mm		≤2.5 mm
Mounting panels		2.5 mm		≤3.0 mm
Mounting plates		2.0 mm		≤3.0 mm
Doors		1.5 mm		≤2.0 mm
EMC attenuation				
EMC attenuation		www.siemens.com/lowvoltage/product-support		www.siemens.com/lowvoltage/product-support
Installable module heights (HU = 1 3/4" = 44.45 mm)				
		19" fixed-mounted	19" swing frame	
Height 1800 mm		36 HU	34 HU	On request
Height 2000 mm		41 HU	38 HU	On request
Height 2200 mm		45 HU	43 HU	On request

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Quick selection guide

Two installation types



Stand-alone installation
- With side panels
  (lockable in the case of data cubicles)



Suite installation
- Without side panels

Four versions



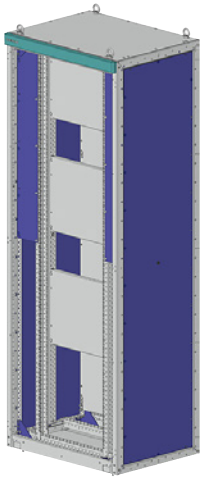
Basic version
- IP40 or IP55



Ventilated cubicles
- IP20
- Door and roof with ventilation fins



Data cubicles
- IP40
- Glass door at front
- Section door at rear
- Roof with cable entry
- 19" fixed-mounted



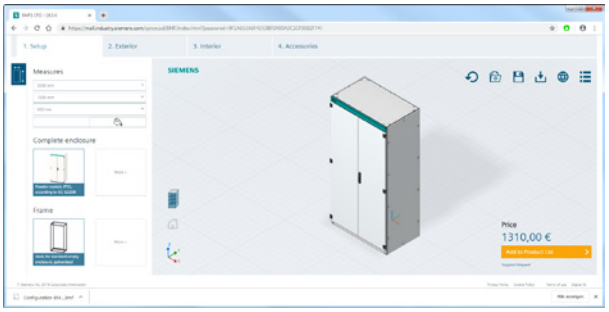
Earthquake-resistant version
- IP40
- Increased stability

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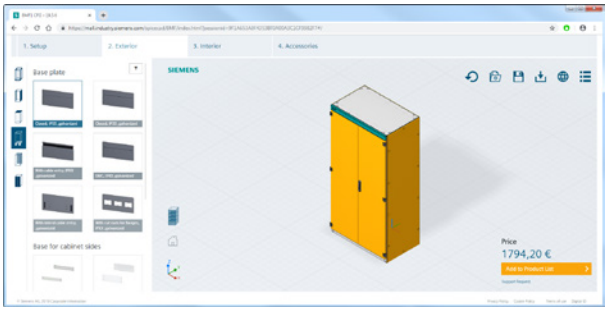
Online configurator highlights

www.siemens.com/lowvoltage/8mf1-configurator

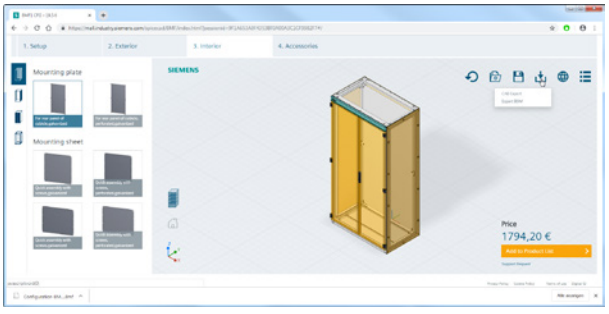
Graphical configuration directly on the 3D model



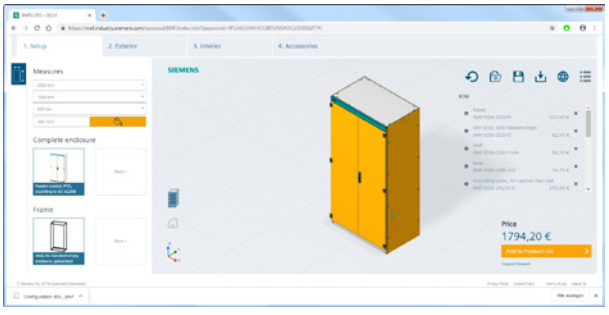
Customization of the control cabinet with cutouts and color



Exporting of parts lists and 3D and 2D data



Dynamic and interactive parts lists



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Structure of the article numbers

The structure shown below is intended as an overview of each position and its meaning.
For a complete and valid configuration of your system cubicle, please use our online configurator at
www.siemens.com/lowvoltage/8mf1-configurator

8MF1	5	6	7	8	9	10	11
				3			
Height							
1800 mm	8						
2000 mm	0						
2200 mm	2						
Width							
400 mm		4					
600 mm		6					
800 mm		8					
900 mm		9					
1000 mm		0					
1200 mm		2					
Depth							
400 mm			4				
500 mm			5				
600 mm			6				
800 mm			8				
1000 mm			0				
Version							
Basic					B		
Ventilated					V		
Data					D		
Earthquake-resistant					E		
Installation							
Stand-alone						S	
Side by side						R	
Degree of protection							
Basic cubicles, data cubicles, IP40							4
Basic cubicles, data cubicles, IP55							5
Ventilated cubicles, IP20							4
Earthquake-resistant cubicles, IP40							5

17

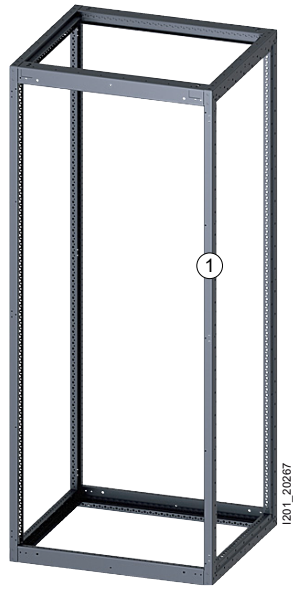
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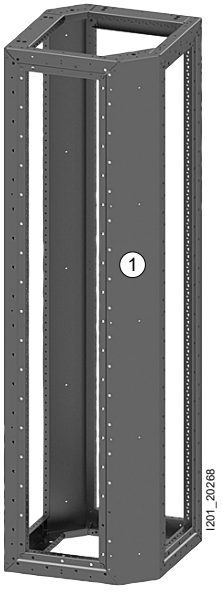
Quick selection guide

Frame

For standard enclosure

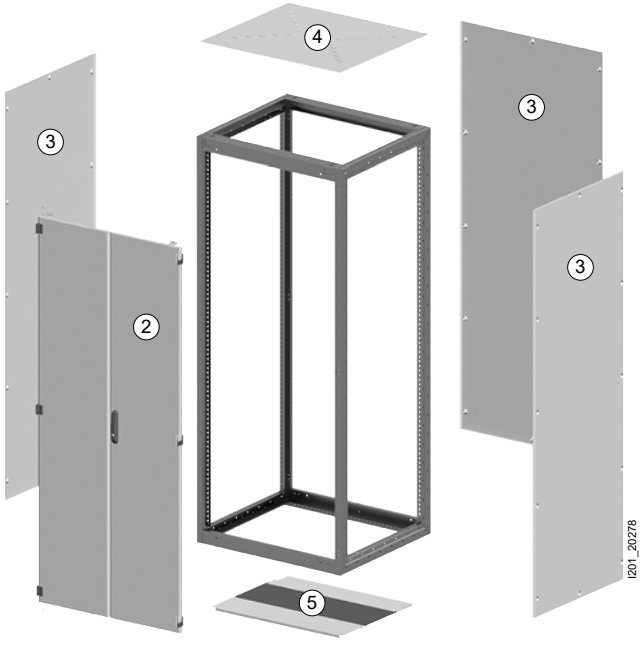


For corner enclosure



① Frame

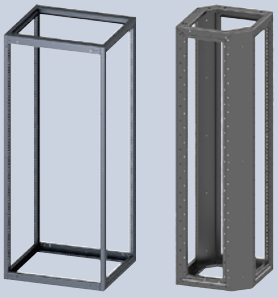
Enclosure



② Door, door half, compartment door
③ Side panels, rear panel
④ Roof
⑤ Floor

System overview, page 17/4

① Frame



**The structure shown below is intended as an overview of each position and its meaning.
For a complete and valid configuration of your system cubicle, please use our online configurator at
www.siemens.com/lowvoltage/8mf1-configurator**

For standard enclosure

8MF1		5	6	7	8	9	10	11	12
					3	G	S		0
Height	1800 mm	8							
	2000 mm	0							
	2200 mm	2							
Width	400 mm		4						
	600 mm		6						
	800 mm		8						
	900 mm		9						
	1000 mm		0						
	1200 mm		2						
Depth	400 mm			4					
	500 mm			5					
	600 mm			6					
	800 mm			8					
	1000 mm			0					
Material, surface	Zinc-plated							3	
	Powder-coated, RAL 7035							4	

For corner enclosure

8MF1		5	6	7	8	9	10	11	12
					2	G	E		0
Height	1800 mm	8							
	2000 mm	0							
	2200 mm	2							
Width	400 mm		4						
	600 mm		6						
	800 mm		8						
	1000 mm		0						
Depth	400 mm			5					
	600 mm			7					
	800 mm			0					
	1000 mm			1					
Material, surface	Zinc-plated							3	

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① Frame

Accessories

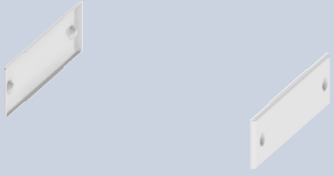
**The structure shown below is intended as an overview of each position and its meaning.
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www.siemens.com/lowvoltage/8mf1-configurator**

Base



8MF1		5	6	7	8	9	10
				0	2		
Height	100 mm	0					
	200 mm	2					
Width	400 mm		4				
	600 mm		6				
	800 mm		8				
	900 mm		9				
	1000 mm		0				
	1200 mm		2				
Version	Base for cubicles with door at the front and the rear					C	R
	Base and feet for cubicles with door at the front					C	S
	Base for corner cubicle					E	S

Base cover



8MF1		5	6	7	8	9	10
			0		2	C	
Height	100 mm	0					
	200 mm	2					
Depth	400 mm			4			
	500 mm			5			
	600 mm			6			
	800 mm			8			
	1000 mm			0			
Version	Base covers for cubicle sides						T

System overview, page 17/4

**The structure shown below is intended as an overview of each position and its meaning.
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www.siemens.com/lowvoltage/8mf1-configurator**

Trim strip



8MF1	5	6	7	8	9	10	11	12
	0		0	2	C	D		

Width	400 mm	4					
	600 mm	6					
	800 mm	8					
	900 mm	9					
	1000 mm	0					
	1200 mm	2					
Version	Trim strip petrol		Without Siemens logo, above the door	Without cutout	0		0
			With Siemens logo, left, above the door	Without cutout	1		0
			With Siemens logo, right, above the door	With cutout, left	1		6
			With Siemens logo, left, above the door	With cutout, right	1		7
	Trim strip RAL 7035		Without Siemens logo, below the door	Without cutout	0		8

Separator

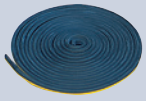
Separator for vertical division of the enclosure



Height	Article No.
1800 mm	8MF1165-2AT30
2000 mm	8MF1185-2AT30
2200 mm	8MF1205-2AT30

Mounting accessories

Accessories for cubicle suites



Version	Degree of protection	Article No.
Screw set	IP40	8MF1000-2CA
Sealing tape	IP40 to IP55	8MF1000-2CB
Side-by-side installation kit	IP40 EMC (IP55 not available)	8MF1000-2CE

Kit for stabilization of corner connections



	Article No.
	8MF1000-2HF

Transport accessories

Transport eyebolts



Load bearing capacity	Article No.
Up to 500 kg	8MF1000-2CK

Transport brakets



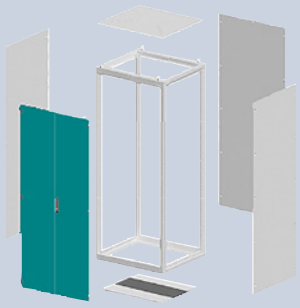
Width	Article No.
400 mm	8MF1040-2CW
600 mm	8MF1060-2CW
800 mm	8MF1080-2CW
900 mm	8MF1090-2CW
1000 mm	8MF1000-2CW
1200 mm	8MF1020-2CW

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System overview, page 17/4

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② Door, door halves, compartment door



Door, door halves

The structure shown below is intended as an overview of each position and its meaning.
For a complete and valid configuration of your system cubicle, please use our online configurator at
www.siemens.com/lowvoltage/8mf1-configurator

		5	6	7	8	9	10	11	12	13		14		15	16
8MF1				0	2	U	T								
Height	1800 mm	8													
	2000 mm	0													
	2200 mm	2													
Width	300 mm		3												
	400 mm		4												
	450 mm		7												
	500 mm		5												
	600 mm		6												
	800 mm		8												
	900 mm		9												
	1000 mm		0												
	1200 mm		2												
Door type	Door/inner door							1							
	Door halves (only available with hinging on the left)							2							
Hinge position	Left								5						
	Right								4						
Door version	IP20	With ventilation openings			Foamed seal					1		B		A	2
	IP40	Closed			EMC seal					0		C		A	1
		With ventilation slits			Foamed seal					2		B		A	2
	IP55	Closed			Foamed seal					0		B		A	2
		With inspection window			Foamed seal					0		B		E	2
	IPxx	With cutout 292 × 292 mm (up to IP55) for filter fan			Foamed seal					3		B		A	2
	–	Inner door, closed (up to 800 mm wide)			Without seal					4		B		A	2

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Compartment door

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For a complete and valid configuration of your system cubicle, please use our online configurator at
www.siemens.com/lowvoltage/8mf1-configurator**

		5	6	7	8	9	10	11	12	13	14	15	16
8MF1				0	2	U	T	3	4	0	B	A	2
Compartment height	300 mm	3											
	400 mm	4											
	500 mm	5											
	600 mm	6											
	700 mm	7											
	800 mm	8											
	900 mm	9											
	1000 mm	0											
	1100 mm	1											
	1200 mm	2											
Width	600 mm		6										
	800 mm		8										

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② Door, door halves, compartment door

Accessories

Door shelves



- Multi-purpose door bars required for mounting
- Shelf: RAL 7035

For door width	Mounting location			Article No.
	Door	Door halves	Compartment door	
600 mm	■	■	–	8MF1060-2VP
800 mm	■	■	–	8MF1080-2VP

Grilles



- To upgrade degree of protection from IP2x to IP4x
- Surface: zinc-plated

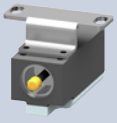
Width	Mounting location			Article No.
	Door	Door halves	Compartment door	
300 mm	■	■	–	8MF1030-2HM
400 mm	■	■	–	8MF1040-2HM
500 mm	■	■	–	8MF1050-2HM
600 mm	■	■	–	8MF1060-2HM
700 mm	■	■	–	8MF1070-2HM
800 mm	■	■	–	8MF1080-2HM
900 mm	■	■	–	8MF1090-2HM

Strips

- For door reinforcement
- Surface: zinc-plated
- Cannot be used for glass doors

Height	Mounting location			Article No.
	Door	Door halves	Compartment door	
1800 mm	■	■	–	8MF1008-2VM
2000 mm	■	■	–	8MF1000-2VM
2200 mm	■	■	–	8MF1002-2VM

Position switches



Version				Article No.
1 NO + 1 NC	■	■	■	8MF1000-2VL
1 NO + 2 NC	■	■	■	8MF1000-2VR

Circuit diagram pockets



- Cannot be used for glass doors

Version	Mounting location			Article No.
	Door	Door halves	Compartment door	
Plastic	■	■	–	8MF1000-2VK
Steel, zinc-plated	■	■	–	8MF1000-2VU

Limit plates

For a number n of compartment doors, n–1 limit plates are additionally required.Please order separately.

Width	Mounting location			Article No.
	Door	Door halves	Compartment door	
600 mm	–	–	■	8MF1060-2AK14-0
800 mm	–	–	■	8MF1080-2AK14-0

Door stays



- With variable opening angle: 90°, 120° and 150°
- Surface: zinc-plated

	Mounting location			Article No.
	Door	Door halves	Compartment door	
	■	■	–	8MF1000-2VG

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Rotary handles



Version	Mounting location			Article No.
	Door	Door halves	Compartment door	
With button insert and eye for padlock (Lock not included in 8MF portfolio)	■	–	–	8MF1000-2VN

Rotary handle inserts

- Not suitable for door halves











Version	Mounting location			Article No.
	Door	Door halves	Compartment door	
Double-bit key	■	–	–	8MF1000-2VA
Square key	■	–	–	8MF1000-2VC
Triangular key	■	–	–	8MF1000-2VD
Daimler	■	–	–	8MF1000-2VE
Cylinder lock	■	–	–	8MF1000-2VF

Spare part door

Hinge sets



Version	Mounting location			Article No.
	Door	Door halves	Compartment door	
For left-hand hinge	■	■	■	8MF1000-2VT
For right-hand hinge	■	■	■	8MF1000-2VW

Rotary handles



Version	Mounting location			Article No.
	Door	Door halves	Compartment door	
Without insert	■	–	–	8MF1000-2VP

Grounding cables for doors



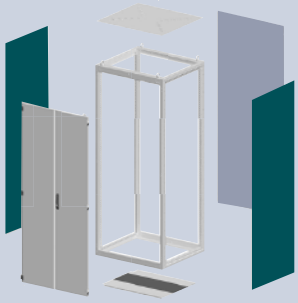
Cable cross-section	Mounting location			Article No.
	Door	Door halves	Compartment door	
6 mm²	■	■	■	8MF1010-2HD3

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③ Side/rear panel



The structure shown below is intended as an overview of each position and its meaning.
For a complete and valid configuration of your system cubicle, please use our online configurator at
www.siemens.com/lowvoltage/8mf1-configurator

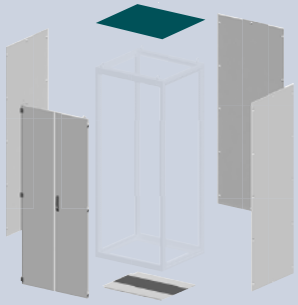
8MF1				5	6	7	8	9	10	11	12	13	14
							2	U	W				
Height			1800 mm	8									
			2000 mm	0									
			2200 mm	2									
Width			300 mm		3								
			400 mm		4								
			450 mm		7								
			500 mm		5								
			600 mm		6								
			800 mm		8								
			900 mm		9								
			1000 mm/ *No selection available for partitions*		0								
			1200 mm		2								
Depth			No value			0							
			400 mm			4							
			500 mm			5							
			600 mm			6							
			800 mm			8							
			1000 mm/*No selection available for side panels*			0							
Side wall/ rear wall	IP40	Closed	Without seal							6	0	1	C
			EMC seal							6	2	1	B
		Flat								6	3	1	C
	IP55	Closed	Foamed seal							6	1	1	C
Partition		Closed	Without seal							7	0	3	C

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④ Roof



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For standard systems

8MF1	5	6	7	8	9	10	11	12	13	14
	0			2	U	D				

Width	400 mm					4					
	600 mm					6					
	800 mm					8					
	900 mm					9					
	1000 mm					0					
	1200 mm					2					
Depth	400 mm						4				
	500 mm						5				
	600 mm						6				
	800 mm						8				
	1000 mm						0				
Version	IP20	Perforated	Without seal					2	0	0	A
	IP40	Closed	Without seal					1	0	0	A
			EMC seal					1	2	0	A
		With ventilation fins	Without seal					3	0	0	A
	IP55	Closed	Foamed seal					1	1	0	A

For corner enclosure

8MF1	5	6	7	8	9	10	11	12	13	14
	0	0		2	U	E				

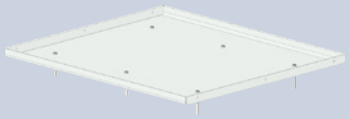
Width/depth	400/400 mm						4				
	600/600 mm						6				
	800/800 mm						8				
	1000/1000 mm						0				
Version	For corner cubicle	IP20	With ventilation openings					2	0	0	A
		IP40	Closed					1	0	0	A
			With ventilation openings					3	0	0	A
		IP55	Closed					1	1	0	A

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Accessories

Roof trays

Roof trays for increasing the degree of protection, IPX1



Width	Depth	Article No.
400 mm	400 mm	8MF1044-2VH
	500 mm	8MF1045-2VH
	600 mm	8MF1046-2VH
	800 mm	8MF1048-2VH
	1000 mm	8MF1040-2VH
600 mm	400 mm	8MF1064-2VH
	500 mm	8MF1065-2VH
	600 mm	8MF1066-2VH
	800 mm	8MF1068-2VH
	1000 mm	8MF1060-2VH
800 mm	400 mm	8MF1084-2VH
	500 mm	8MF1085-2VH
	600 mm	8MF1086-2VH
	800 mm	8MF1088-2VH
	1000 mm	8MF1080-2VH
900 mm	400 mm	8MF1094-2VH
	500 mm	8MF1095-2VH
	600 mm	8MF1096-2VH
	800 mm	8MF1098-2VH
	1000 mm	8MF1090-2VH
1000 mm	400 mm	8MF1004-2VH
	500 mm	8MF1005-2VH
	600 mm	8MF1006-2VH
	800 mm	8MF1008-2VH
	1000 mm	8MF1000-2VH
1200 mm	400 mm	8MF1024-2VH
	500 mm	8MF1025-2VH
	600 mm	8MF1026-2VH
	800 mm	8MF1028-2VH
	1000 mm	8MF1020-2VH

Roof tray rims

Roof tray rims for cubicle side, IPX1



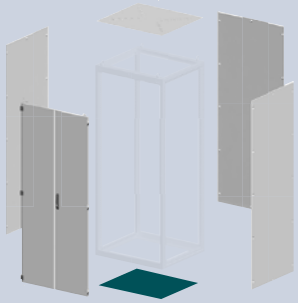
Each cubicle or cubicle group with a roof tray requires two roof tray rims.
(1 set = 2 units)

Depth	Article No.
400 mm	8MF1004-2VB
500 mm	8MF1005-2VB
600 mm	8MF1006-2VB
800 mm	8MF1008-2VB
1000 mm	8MF1000-2VB

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⑤ Floor



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www.siemens.com/lowvoltage/8mf1-configurator

For standard enclosure

8MF1	5	6	7	8	9	10	11	12	13
	0			2	U	B			

				5	6	7	8	9	10	11	12	13
Width		400 mm			4							
		600 mm			6							
		800 mm			8							
		900 mm			9							
		1000 mm			0							
		1200 mm			2							
Depth		400 mm				4						
		500 mm				5						
		600 mm				6						
		800 mm				8						
		1000 mm				0						
Version	IP30	Closed, divided								2	2	0
	IP40	Closed	EMC seal							4	2	0
	IP55	Closed	Foamed seal							1	2	0
	IPxx	With cable entry								3	2	0
		With cable entry, lateral and rear [1]								5	1	2
		With cut-outs for flanges								5	2	0

[1] Version available from width ≥600 mm and depth ≥600 mm

For corner enclosure

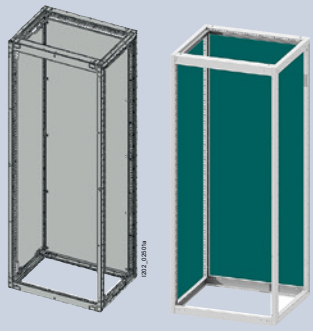
8MF1	5	6	7	8	9	10	11	12	13
	0	0		2	U	E		1	0

		5	6	7	8	9	10	11	12	13
Depth	400 mm			4						
	600 mm			6						
	800 mm			8						
	1000 mm			0						
Degree of protection	IP40							2		
	IP55							1		

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Mounting panels

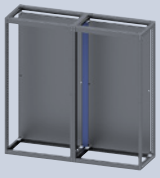


The structure shown below is intended as an overview of each position and its meaning.
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www.siemens.com/lowvoltage/8mf1-configurator

8MF1	5	6	7	8	9	10	11	12	13
				2	A				0
Cubicle height									
1800 mm	8								
2000 mm	0								
2200 mm	2								
Cubicle width									
400 mm		4							
600 mm		6							
800 mm		8							
900 mm		9							
1000 mm/*No selection available for installation on side of cubicle*		0							
1200 mm		2							
Depth									
400 mm			4						
500 mm			5						
600 mm			6						
800 mm			8						
1000 mm/*No selection available for installation on cubicle width*			0						
Installation location									
Cubicle width						L			
Cubicle side						K			
Version									
Smooth							0		
Perforated							1		
Material									
2.5 mm sheet steel								3	

Accessories

Mounting panel adapters



- For connecting side-by-side mounting panels
- Surface: zinc-plated

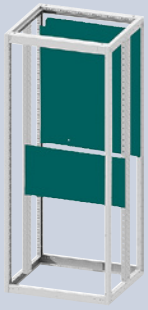
Height	Article No.
1800 mm	8MF1800-2CH
2000 mm	8MF1000-2CH
2200 mm	8MF1200-2CH

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Mounting plates



The structure shown below is intended as an overview of each position and its meaning.
For a complete and valid configuration of your system cubicle, please use our online configurator at
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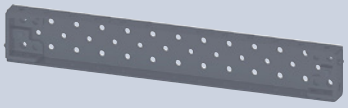
		5	6	7	8	9	10	11	12	13
8MF1				0	2	A				0
Height	100 mm	1								
	200 mm	2								
	300 mm	3								
	400 mm	4								
	600 mm	6								
	800 mm	8								
Width	400 mm		4							
	600 mm		6							
	800 mm		8							
	900 mm		9							
	1000 mm		0							
	1200 mm		2							
Installation location	Fixed with zinc die-cast parts between the bars of the frame						M			
	Fixed directly to the frame						A			
Version	Smooth							0		
	Perforated							1		
Material	2.0 mm sheet steel								2	

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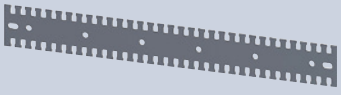
Mounting rails

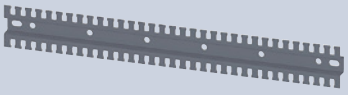
Mounting rails (50)



Length	Version	Article No.
250 mm	Suitable for cubicle depth 400 mm	8MF1025-2AS30
325 mm	Suitable for cubicle width 400 mm	8MF1032-2AS30
350 mm	Suitable for cubicle depth 500 mm	8MF1035-2AS30
425 mm	–	8MF1042-2AS30
450 mm	Suitable for cubicle depth 600 mm	8MF1045-2AS30
525 mm	Suitable for cubicle width 600 mm	8MF1052-2AS30
550 mm	–	8MF1055-2AS30
625 mm	–	8MF1062-2AS30
650 mm	Suitable for cubicle depth 800 mm	8MF1065-2AS30
725 mm	Suitable for cubicle width 800 mm	8MF1072-2AS30
750 mm	–	8MF1075-2AS30
825 mm	Suitable for cubicle width 900 mm	8MF1082-2AS30
850 mm	Suitable for cubicle depth 1000 mm	8MF1085-2AS30
925 mm	Suitable for cubicle width 1000 mm	8MF1092-2AS30
1050 mm	–	8MF1105-2AS30
1125 mm	Suitable for cubicle width 1200 mm	8MF1112-2AS30
1250 mm	–	8MF1125-2AS30
1350 mm	–	8MF1135-2AS30
1450 mm	–	8MF1145-2AS30
1550 mm	–	8MF1155-2AS30
1650 mm	Suitable for cubicle height 1800 mm	8MF1165-2AS30
1750 mm	–	8MF1175-2AS30
1850 mm	Suitable for cubicle height 2000 mm	8MF1185-2AS30
1950 mm	–	8MF1195-2AS30
2050 mm	Suitable for cubicle height 2200 mm	8MF1205-2AS30
2150 mm	–	8MF1215-2AS30
2250 mm	–	8MF1225-2AS30

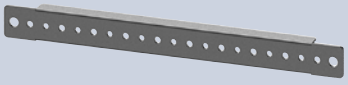
Mounting rails, serrated





Version	Article No.
Flat	8MF1060-2HC13-0
	8MF1080-2HC13-0
	8MF1090-2HC13-0
	8MF1000-2HC13-0
	8MF1020-2HC13-0
U-shape	8MF1060-2HC03-0
	8MF1080-2HC03-0
	8MF1090-2HC03-0
	8MF1000-2HC03-0
	8MF1020-2HC03-0

Mounting rails, compact



Version		Length	Article No.
Suitable for cubicle width	600 mm	566 mm	8MF1056-2AS30
	1000 mm	966 mm	8MF1096-2AS30
	1200 mm	1166 mm	8MF1006-2AS30
Suitable for door width	300 mm	166 mm	8MF1016-2AS30
	400 mm	266 mm	8MF1026-2AS30
	450 mm	316 mm	8MF1031-2AS30
	500 mm	366 mm	8MF1036-2AS30
	600 mm	466 mm	8MF1046-2AS30
	800 mm	666 mm	8MF1066-2AS30
	900 mm	766 mm	8MF1076-2AS30
	1000 mm	866 mm	8MF1086-2AS30

Mounting rails, heavy duty



- Can be installed in the cubicle depth and width (the length corresponds to the appropriate cubicle dimension)

Length	Article No.
600 mm	8MF1060-2AH60
800 mm	8MF1080-2AH60
900 mm	8MF1090-2AH60
1000 mm	8MF1000-2AH60
1200 mm	8MF1020-2AH60

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General accessories interior installation

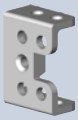
Telescopic rails



- For withdrawable shelves

For cubicle depth	Article No.
400 mm and 600 mm	8MF1003-2HF
800 mm and 1000 mm	8MF1006-2HF

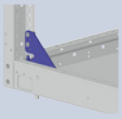
Mounting brackets



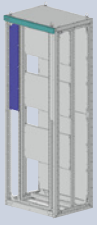
- For mounting expansion elements

Article No.
8MF1000-2CP

Earthquake assembly kits







For stabilization of	Article No.
Corner connections	8MF1000-2HA
Intermediate panel	8MF1000-2HW
19" fixed-mounted	8MF1000-2HE

Grounding plates



- For fixing to the frame (although fixing points for ground connection are already provided on the frame)

Article No.
8MF1000-2HK

Grounding bars



Version	Width	Article No.
30 × 10 mm²	600 mm	8MF1060-2HD2
	800 mm	8MF1080-2HD2
	900 mm	8MF1090-2HD2
	1000 mm	8MF1000-2HD2
	1200 mm	8MF1020-2HD2
30 × 5 mm²	600 mm	8MF1060-2HD1
	800 mm	8MF1080-2HD1
	900 mm	8MF1090-2HD1
	1000 mm	8MF1000-2HD1
	1200 mm	8MF1020-2HD1

Grounding screws



Thread	Article No.
M12	8MF1000-2HB

Grounding straps

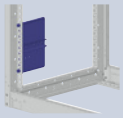


Cross-section	Article No.
16 mm²	8MF1000-2HK1
32 mm²	8MF1000-2HK2

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Universal sheets



- Incl. DIN rail; e.g. for mounting a heater unit

Article No.
8MF1000-2HG

DIN rails



- For mounting modular installation devices

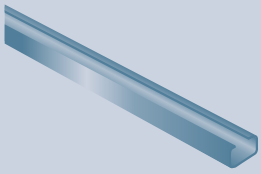
Height	Article No.
7.5 mm	8MF1500-2HS
15 mm	8MF1100-2HS

Insulated supports



Thread	Dimensions	Article No.
M8	D 40 × 50 mm	8MF1000-2VY

Cable clamping rails



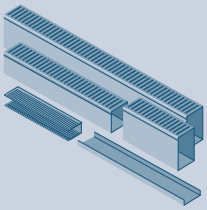
Height	Width	Depth	Article No.
30 mm	600 mm	–	8MF1360-2HH
	800 mm	–	8MF1380-2HH
	900 mm	–	8MF1390-2HH
	1000 mm	–	8MF1310-2HH
	1200 mm	–	8MF1320-2HH
	–	400 mm	8MF1304-2HH
		600 mm	8MF1306-2HH
		800 mm	8MF1308-2HH
		1000 mm	8MF1301-2HH
40 mm	600 mm	–	8MF1460-2HH
	800 mm	–	8MF1480-2HH
	900 mm	–	8MF1490-2HH
	1000 mm	–	8MF1410-2HH
	1200 mm	–	8MF1420-2HH
	–	400 mm	8MF1404-2HH
		600 mm	8MF1406-2HH
		800 mm	8MF1408-2HH
		1000 mm	8MF1401-2HH
50 mm	600 mm	–	8MF1560-2HH
	800 mm	–	8MF1580-2HH
	900 mm	–	8MF1590-2HH
	1000 mm	–	8MF1510-2HH
	1200 mm	–	8MF1520-2HH
	–	400 mm	8MF1504-2HH
		600 mm	8MF1506-2HH
		800 mm	8MF1508-2HH
		1000 mm	8MF1501-2HH

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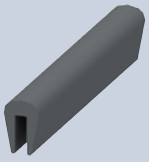
General accessories interior installation

Cable ducts



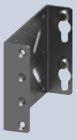
Version	Color	Height	Width	Article No.
Halogen-free	RAL 7035	37.5 mm	25 mm	8MF1120-2HL7
		50 mm	25 mm	8MF1220-2HL7
			37.5 mm	8MF1240-2HL7
			50 mm	8MF1250-2HL7
			75 mm	8MF1260-2HL7
		75 mm	50 mm	8MF1350-2HL7
			75 mm	8MF1360-2HL7
			100 mm	8MF1370-2HL7
			125 mm	8MF1380-2HL7
		100 mm	75 mm	8MF1460-2HL7
Standard	RAL 7030	37.5 mm	25 mm	8MF1120-2HL6
		50 mm	25 mm	8MF1220-2HL6
			37.5 mm	8MF1240-2HL6
			50 mm	8MF1250-2HL6
			75 mm	8MF1260-2HL6
		75 mm	50 mm	8MF1350-2HL6
			75 mm	8MF1360-2HL6
			100 mm	8MF1370-2HL6
			125 mm	8MF1380-2HL6
		100 mm	75 mm	8MF1460-2HL6

Edge protection



Dimensions	Article No.
9.5 × 6.5 mm	8MF1000-2CD

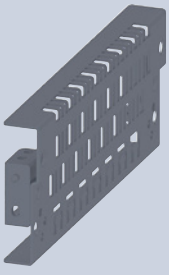
Mounting plates





Dimensions	Version	Article No.
122 × 91 mm	Standard	8MF1000-2HH
122 × 92 mm	With DIN rail	8MF1000-2HH1

Buses for improving EMC



Installation in	Width	Depth	Article No.
Cubicle width	400 mm	–	8MF1040-2HN
	600 mm	–	8MF1060-2HN
	800 mm	–	8MF1080-2HN
	900 mm	–	8MF1090-2HN
	1000 mm	–	8MF1000-2HN
	1200 mm	–	8MF1020-2HN
Cubicle depth	–	400 mm	8MF1004-2HN
		600 mm	8MF1006-2HN
		800 mm	8MF1008-2HN
		1000 mm	8MF1001-2HN

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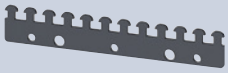
Brackets



- For variable mounting of cable clamping rails

Article No.
8MF1000-2HH5

Toothed bars



- For installation on mounting rail

Length	Article No.
100 mm	8MF1000-2HC

Contact washers



- Size 6

Scope of supply	Article No.
100 units	8MF1000-2VJ

Screws



- M6 × 12

Scope of supply	Article No.
100 units	8MF1000-2VS

Adapters for wiring systems



Version	Article No.
For Lütze wiring system	8MF1000-2HL
For Promet wiring system	8MF1000-2HP

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19-inch expansion

Cubicle frames



- For the installation of 19" devices, screwed
- In combination with 2 mounting rails, heavy duty in cubicle width (order mounting rail separately, see page 17/25)
- For cubicle width ≧600 mm

Surface	Height	For mounting height	Article No.
Zinc-plated	400 mm	7 HU	8MF1100-2AN30
	600 mm	12 HU	8MF1200-2AN30
	800 mm	16 HU	8MF1300-2AN30
	1000 mm	21 HU	8MF1400-2AN30
	1200 mm	25 HU	8MF1500-2AN30
	1400 mm	30 HU	8MF1600-2AN30
	1800 mm	36 HU	8MF1700-2AN30
	2000 mm	41 HU	8MF1800-2AN30
	2200 mm	45 HU	8MF1900-2AN30

Swing frames





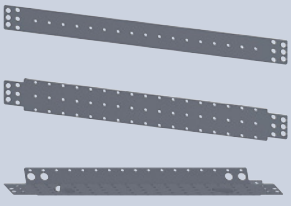
- For the installation of 19" devices, screwed
- Left-hand/right-hand hinge
- In combination with 2 mounting rails, heavy duty in cubicle width (order mounting rail separately)
- For cubicle width ≧800 mm

Version	Surface	Height	For mounting height	Article No.
Screwed [1]	Zinc-plated	1800 mm	34 HU	8MF1800-2AR02-4
		2000 mm	38 HU	8MF1000-2AR02-4
		2200 mm	43 HU	8MF1200-2AR02-4
	Powder-coated	1800 mm	34 HU	8MF1800-2AR02-3
		2000 mm	38 HU	8MF1000-2AR02-3
		2200 mm	43 HU	8MF1200-2AR02-3
Welded [2]	Powder-coated		34 HU	8MF1800-2AR02-2
			38 HU	8MF1000-2AR02-2
			43 HU	8MF1200-2AR02-2

[1] Interlocking with 3 mm double-bit key
[2] Spring interlocking at top and bottom

Accessories

Universal supports



Version	For mounting height	Article No.
For cable channel, DIN rail and C rail	1 HU	8MF1000-2HH2
	2 HU	8MF1000-2HH3
For cable channel, DIN rail, C rail and lamp		8MF1000-2HH4

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Covers

Version	Surface	For mounting height	Article No.
Closed	RAL 7035	1 HU	8MF1000-2AB01
		2 HU	8MF1000-2AB02
		3 HU	8MF1000-2AB03
		4 HU	8MF1000-2AB04
		5 HU	8MF1000-2AB05
		6 HU	8MF1000-2AB06
		7 HU	8MF1000-2AB07
With ventilation openings	RAL 7035	2 HU	8MF1000-2AB32
		3 HU	8MF1000-2AB33
For modular installation devices, for 24 modular widths	RAL 7035	3 HU	8MF1000-2AB31

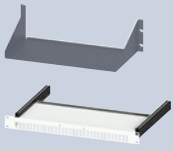
Frames

Version	Surface	For mounting height	Article No.
For mounting test switches, 19"	RAL 7035	7 HU	8MF1000-2AB30

Covers for frames

Version	Surface	Article No.
For mounting 7XP 1/6 standard devices	RAL 7035	8MF1000-2AB34
For mounting 7XP 2/6 standard devices	RAL 7035	8MF1000-2AB35
For mounting 7XP 3/6 standard devices	RAL 7035	8MF1000-2AB36

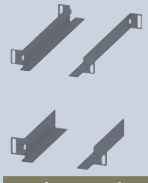
Shelves



- For 19" frame

Version	Surface	For mounting height	Depth	Article No.
Non-adjustable	Zinc-plated	3 HU	230 mm	8MF1000-2AB12
			400 mm	8MF1000-2AB14
Withdrawable	RAL 7035	1 HU		8MF1000-2HF12

Slide rails



Version	Depth	Article No.
For 19" fixed-mounted (double mounting at front and rear)	400 mm	8MF1004-2HG12
	600 mm	8MF1006-2HG12
	800 mm	8MF1008-2HG12
	1000 mm	8MF1000-2HG12
For 19" fixed-mounted and For 19" swing frame		8MF1000-2HS12

Device panels



Version	Surface	Height	Width	Article No.
For 24 modular widths	Zinc-plated	1800 mm	100 mm	8MF1810-2AB00
			150 mm	8MF1850-2AB00
			200 mm	8MF1820-2AB00
		2000 mm	100 mm	8MF1010-2AB00
			150 mm	8MF1050-2AB00
			200 mm	8MF1020-2AB00
		2200 mm	100 mm	8MF1210-2AB00
			150 mm	8MF1250-2AB00
			200 mm	8MF1220-2AB00

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Quick selection guide

LED lights

The LED lights offer optimum lighting conditions for installation and maintenance.
The LED technology is energy-efficient and maintenance-free.

	Magnetic fixing Easy installation at any point on the steel cubicle	**Screw fixing** Fixed installation in the case of impact loads or high vibration levels	**Clip fixing** The lamp is snapped into the clip bracket and can be turned in both directions
With motion detector The lights switch on when the door is opened, enabling work in the cubicle to be started immediately			
With On/Off switch Particularly suitable for operation in cubicles and enclosures with a high density of built-in electrical/electronic components			

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Slimline lights

The Slimline lights are an alternative with an energy-saving lamp and are also available as a version with an integrated socket.

		Screw fixing	Magnetic fixing
With motion detector The lights switch on when the door is opened, enabling work in the cubicle to be started immediately	**With socket outlet**		
	Without socket outlet		
With On/Off switch Particularly suitable for operation in cubicles and enclosures with a high density of built-in electrical/electronic components	**With socket outlet**		
	Without socket outlet		

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LED lights

Magnetic fixing



Version	Voltage	Standard	Article No.
With motion detector	100 ... 240 V AC, 50/60 Hz	VDE	8MR2200-0A
	24 ... 48 V DC	VDE	8MR2201-0A
With On/Off switch	100 ... 240 V AC, 50/60 Hz	VDE, UL	8MR2200-1A
	24 ... 48 V DC	VDE, UL	8MR2201-1A

Screw fixing



Version	Voltage	Standard	Article No.
With motion detector	100 ... 240 V AC, 50/60 Hz	VDE	8MR2200-0B
	24 ... 48 V DC	VDE	8MR2201-0B
With On/Off switch	100 ... 240 V AC, 50/60 Hz	VDE, UL	8MR2200-1B
	24 ... 48 V DC	VDE, UL	8MR2201-1B

Clip fixing



Version	Voltage	Standard	Article No.
With motion detector	100 ... 240 V AC, 50/60 Hz	VDE	8MR2200-0C
	24 ... 48 V DC	VDE	8MR2201-0C
With On/Off switch	100 ... 240 V AC, 50/60 Hz	VDE	8MR2200-1C
	24 ... 48 V DC	VDE	8MR2201-1C

Accessories

Cables

Connecting cables with socket and open end



- For connection of an LED light (switch side)
- Length 2 m

Version	Cross-section	Standard	Article No.
AC connecting cable	2× 1.5 mm²	VDE	8MR2210-1B
	AWG 16	VDE, UL	8MR2210-2B
DC connecting cable	2× 1.5 mm²	VDE	8MR2210-3B
	AWG 16	VDE, UL	8MR2210-4B

Extension cables with socket and plug



- For looping through to another LED light
- Length 1 m

Version	Cross-section	Standard	Article No.
AC plastic-sheathed cable	2× 1.5 mm²	VDE	8MR2210-1C
	AWG 16	VDE, UL	8MR2210-2C
DC plastic-sheathed cable	2× 1.5 mm²	VDE	8MR2210-3C
	AWG 16	VDE, UL	8MR2210-4C

Individual plugs or sockets for self-assembly of cables

For connection of an LED light (switch side)



Version	Application	Standard	Color	Article No.
AC socket	For input side	VDE	White	8MR2210-1A
DC socket	For input side	VDE	Blue	8MR2210-3A

For looping through to another LED light



Version	Application	Standard	Color	Article No.
AC connector	For output side	VDE	White	8MR2210-2A
DC connector	For output side	VDE	Blue	8MR2210-4A

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Slimline lights

		With magnet	Without magnet (approx. 30 N)
			
Slimline lights with motion detector, acc. to VDE			
230 V AC, 50/60 Hz	With socket outlet	8MF5910-1A	8MF5910-1C
	Without socket outlet	8MF5910-2A	8MF5910-2B
Slimline lights with On/Off switch, acc. to VDE			
230 V AC, 50/60 Hz	With socket outlet	8MF5900-1A	8MF5900-1C
	Without socket outlet	8MF5900-2A	8MF5900-2B

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Quick selection guide

Solutions to provide protection against heat

Cooling devices



Heat exchangers



Filter fans/outlet fans



Thermostats



Solutions to provide protection against cold

Heater units



Fan heaters



Thermostats



Solutions to provide protection against corrosion and condensation

Heater units/fan heaters



Filter fans/outlet filters



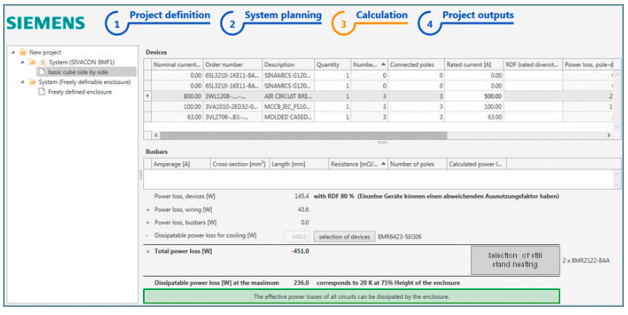
Thermostats



Hygrostats/hygrotherms



SIMARIS therm



The SIMARIS therm calculation tool helps you to easily and precisely dimension the heat dissipation of your control panels, simply by entering the ambient air temperature and selecting the relevant devices in the panel. If necessary, you can immediately select the necessary cooling devices and air conditioners. You can also define the necessary heating power for anti-condensation heating.

For a free download, and further information, visit:
www.siemens.com/simaristherm

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Filter fans and outlet filters

Filter fans

	Size	Cutout	Voltage	Input rating at 50 Hz	Standard	Color	Degree of protection IP54 Air current, free-blowing at 50 Hz	Degree of protection IP54 Article No.	Degree of protection IP55 Air current, free-blowing at 50 Hz	Degree of protection IP55 Article No.
	**Filter fans with EC technology**									
	2	125 × 125 mm	115 V AC, 50/60 Hz	4.4 W	VDE	RAL 7035	62 m³/h	8MR6411-5LE25		–
			230 V AC, 50/60 Hz	4.4 W	VDE	RAL 7035	62 m³/h	8MR6423-5LE25		–
	3	177 × 177 mm	115 V AC, 50/60 Hz	4.4 W	VDE	RAL 7035	120 m³/h	8MR6411-5LE30		–
			230 V AC, 50/60 Hz	4.4 W	VDE	RAL 7035	120 m³/h	8MR6423-5LE30		–
	**Standard filter fans**									
	1	92 × 92 mm	115 V AC, 50/60 Hz	12 W	VDE	RAL 7035	25 m³/h	8MR6411-5LV10		–
			230 V AC, 50/60 Hz	12 W	VDE, UL	RAL 7032	25 m³/h	8MR6423-2LV10		–
					VDE, UL	RAL 7035	25 m³/h	8MR6423-5LV10		–
	2	125 × 125 mm	115 V AC, 50/60 Hz	20 W	VDE, UL	RAL 7035	63 m³/h	8MR6411-5LV25	58 m³/h	8MR6511-5LV25
			230 V AC, 50/60 Hz	20 W	VDE, UL	RAL 7032	63 m³/h	8MR6423-2LV25		–
					VDE, UL	RAL 7035	63 m³/h	8MR6423-5LV25	58 m³/h	8MR6523-5LV25
	3	177 × 177 mm	115 V AC, 50/60 Hz	20 W	VDE, UL	RAL 7035	115 m³/h	8MR6411-5LV30	105 m³/h	8MR6511-5LV30
			230 V AC, 50/60 Hz	20 W	VDE, UL	RAL 7035	115 m³/h	8MR6423-5LV30	105 m³/h	8MR6523-5LV30
	4	223 × 223 mm	115 V AC, 50/60 Hz	18 W	VDE, UL	RAL 7035	160 m³/h	8MR6411-5LV45	147 m³/h	8MR6511-5LV45
				43 W	VDE, UL	RAL 7035	250 m³/h	8MR6411-5LV41	230 m³/h	8MR6511-5LV41
			230 V AC, 50/60 Hz	18 W	VDE, UL	RAL 7032	160 m³/h	8MR6423-2LV45		–
					VDE, UL	RAL 7035	160 m³/h	8MR6423-5LV45	147 m³/h	8MR6523-5LV45
				45 W	VDE, UL	RAL 7032	250 m³/h	8MR6423-2LV41		–
					VDE, UL	RAL 7035	250 m³/h	8MR6423-5LV41	230 m³/h	8MR6423-5LV41
			24 V DC	16 W	VDE, UL	RAL 7032	250 m³/h	8MR6402-2LV41		–
	6	292 × 292 mm	115 V AC, 50/60 Hz	64 W	VDE, UL	RAL 7035	580 m³/h	8MR6411-5LV60	531 m³/h	8MR6511-5LV60
				115 W	VDE, UL	RAL 7035	930 m³/h	8MR6411-5LV80	850 m³/h	8MR6511-5LV80
			230 V AC, 50/60 Hz	64 W	VDE, UL	RAL 7032	580 m³/h	8MR6423-2LV60		–
					VDE, UL	RAL 7035	580 m³/h	8MR6423-5LV60	531 m³/h	8MR6523-5LV60
				135 W	VDE, UL	RAL 7035	930 m³/h	8MR6423-5LV80	850 m³/h	8MR6523-5LV80
	**EMC filter fans**									
	3	177 × 177 mm	115 V AC, 50/60 Hz	20 W	VDE, UL	RAL 7035	115 m³/h	8MR6411-6LV30	105 m³/h	8MR6511-6LV30
			230 V AC, 50/60 Hz	20 W	VDE, UL	RAL 7035	115 m³/h	8MR6423-6LV30	105 m³/h	8MR6523-6LV30
	4	223 × 223 mm	115 V AC, 50/60 Hz	18 W	VDE, UL	RAL 7035	160 m³/h	8MR6411-6LV45	147 m³/h	8MR6511-6LV45
				43 W	VDE, UL	RAL 7035	250 m³/h	8MR6411-6LV41	230 m³/h	8MR6511-6LV41
			230 V AC, 50/60 Hz	18 W	VDE, UL	RAL 7035	160 m³/h	8MR6423-6LV45	147 m³/h	8MR6523-6LV45
				45 W	VDE, UL	RAL 7035	250 m³/h	8MR6423-6LV41	230 m³/h	8MR6523-6LV41

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Filter fans and outlet filters

Outlet filters without fan





	Size	Cutout	External dimensions W x H	Mounting depth	Cover grille height	Color	Degree of protection IP54 Article No.	Degree of protection IP55 Article No.
	Standard outlet filters, acc. to VDE, UL							
	1	92 × 92 mm	105 × 105 mm	12 mm	4.5 mm	RAL 7032	8MR6400-2GV10	–
						RAL 7035	8MR6400-5GV10	–
	2	125 × 125 mm	148 × 148 mm	23 mm	5.5 mm	RAL 7032	8MR6400-2GV25	–
						RAL 7035	8MR6400-5GV25	8MR6500-5GV25
	3	177 × 177 mm	204 × 204 mm	26 mm	6 mm	RAL 7035	8MR6400-5GV30	8MR6500-5GV30
	4	223 × 223 mm	250 × 250 mm	32 mm	6 mm	RAL 7032	8MR6400-2GV45	–
						RAL 7035	8MR6400-5GV45	8MR6500-5GV45
	6	292 × 292 mm	323 × 323 mm	33 mm	6.5 mm	RAL 7032	8MR6400-2GV67	–
						RAL 7035	8MR6400-5GV67	8MR6500-5GV67
	EMC outlet filters, acc. to VDE, UL							
	3	177 × 177 mm	204 × 204 mm	26 mm	6 mm	RAL 7035	8MR6400-6GV30	8MR6500-6GV30
	4	223 × 223 mm	250 × 250 mm	32 mm	6 mm	RAL 7035	8MR6400-6GV45	8MR6500-6GV45

Filter mats for filter fans and outlet filters

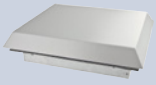
	Size	Degree of protection IP54 Dimensions W x H	Degree of protection IP54 Article No.	Degree of protection IP55 Dimensions W x H	Degree of protection IP55 Article No.
	Standard filter mats, acc. to VDE				
	1	92 × 92 mm	8MR6000-0AM10		–
	2	125 × 125 mm	8MR6000-0AM25	116 × 116 mm	8MR6000-0CF25
	3	177 × 177 mm	8MR6000-0AM30	169 × 169 mm	8MR6000-0CF30
	4	223 × 223 mm	8MR6000-0AM45	215 × 215 mm	8MR6000-0CF45
	6	292 × 292 mm	8MR6000-0AM67	281 × 281 mm	8MR6000-0CF67

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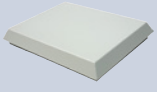
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Roof filter fans and roof outlet filters

Roof filter fans

	Air current, free-blowing at 50 Hz	External dimensions W x H x D	Voltage	Input rating	Standard	Degree of protection IP44 Article No.	Degree of protection IP54 Article No.
	**For cutout 223 × 223 mm, color RAL 7035**						
	71 m³/h	287 × 287 × 104 mm	230 V AC, 50/60 Hz	40 W	VDE, UL	–	8MR6423-5VL44
			115 V AC, 50/60 Hz	48 W	VDE	–	8MR6411-5VL44
			24 V DC	8.8 W	VDE, UL	–	8MR6402-5VL44
	240 m³/h	287 × 287 × 174 mm	230 V AC, 50/60 Hz	45 W	VDE, UL	–	8MR6423-5VL41
			115 V AC, 50/60 Hz	43 W	VDE	–	8MR6411-5VL41
			24 V DC	16 W	VDE, UL	–	8MR6402-5VL41
	300 m³/h	287 × 287 × 174 mm	230 V AC, 50/60 Hz	45 W	VDE, UL	–	8MR6423-5VL55
	**For cutout 292 × 292 mm, color RAL 7035**						
	232 m³/h	361 × 361 × 114 mm	230 V AC, 50/60 Hz	68 W	VDE, UL	–	8MR6423-5VL64
			115 V AC, 50/60 Hz	68 W	VDE	–	8MR6411-5VL64
			24 V DC	14 W	VDE, UL	–	8MR6402-5VL64
	550 m³/h	361 × 361 × 211 mm	230 V AC, 50/60 Hz	64 W	VDE, UL	–	8MR6423-5VL60
			115 V AC, 50/60 Hz	64 W	VDE	–	8MR6411-5VL60
			24 V DC	55 W	VDE, UL	–	8MR6402-5VL60
	840 m³/h	361 × 361 × 203 mm	230 V AC, 50/60 Hz	135 W	VDE, UL	–	8MR6423-5VL80
			115 V AC, 50/60 Hz	115 W	VDE	–	8MR6411-5VL80
			24 V DC	105 W	VDE, UL	–	8MR6402-5VL80
	**For cutout 345 × 265 mm, color RAL 7035, metal**						
	405 m³/h	420 × 340 × 108 mm	115 V AC, 50/60 Hz	40/45 W	VDE, UL	8MR6311-5DL40	–
			230 V AC, 50/60 Hz	40/45 W	VDE, UL	8MR6323-5DL40	–
	690 m³/h	420 × 340 × 108 mm	115 V AC, 50/60 Hz	100/130 W	VDE, UL	8MR6311-5DL42	–
			230 V AC, 50/60 Hz	100/130 W	VDE, UL	8MR6323-5DL42	–

Roof outlet filters without fan

	External dimensions W x H x D	Degree of protection IP44 Article No.	Degree of protection IP54 Article No.
	**For cutout 223 × 223 mm, color RAL 7035, acc. to VDE, UL**		
	287 × 287 × 85 mm	–	8MR6400-5VE45
	**For cutout 292 × 292 mm, color RAL 7035, acc. to VDE, UL**		
	361 × 361 × 96 mm	–	8MR6400-5VE67
	**For cutout 345 × 265 mm, color RAL 7035, metal, acc. to VDE, UL**		
	420 × 340 × 83 mm	8MR6000-5DE40	–

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Air conditioners/cooling devices

For door or side mounting, degree of protection inside IP54/outside IP34, color RAL 7035





Cooling capacity	Rated power	Dimensions W × H × D	Air capacity Inside	Air capacity Outside	Design	Mounting Undrilled	Mounting Part	Article No.
230 V, 50/60 Hz, acc. to VDE								
380 W	280 W	285 × 460 × 180 mm	280 m³/h	280 m³/h	■	■	–	8MR6423-5EG04
640 W	400 W	360 × 606 × 212 mm	330 m³/h	570 m³/h	■	■	–	8MR6423-5EG06
820 W	440 W	348 × 783 × 215 mm	330 m³/h	570 m³/h	■	■	–	8MR6423-5EG08
1050 W	570 W	348 × 783 × 215 mm	570 m³/h	860 m³/h	■	■	■	8MR6423-5SK10
1550 W	880 W	400 × 950 × 233 mm	570 m³/h	1050 m³/h	■	■	■	8MR6423-5SK15
2050 W	1080 W	400 × 1265 × 236 mm	860 m³/h	1050 m³/h	■	■	■	8MR6423-5SK20
400 V, 50/60 Hz, acc. to VDE								
2900 W	1220 W	500 × 1270 × 336 mm	860 m³/h	1450 m³/h	■	■	–	8MR6440-5EG30
3850 W	1780 W	500 × 1270 × 336 mm	1450 m³/h	1450 m³/h	■	■	–	8MR6440-5EG40
5800 W	2340 W	600 × 2000 × 380 mm	1450 m³/h	2900 m³/h	■	■	–	8MR6440-5EG60

For roof mounting, degree of protection inside IP54/outside IP34, color RAL 7035



Cooling capacity	Rated power	Dimensions W × H × D	Air capacity Inside	Air capacity Outside	Design	Mounting Undrilled	Mounting Part	Article No.
230 V, 50/60 Hz, acc. to VDE								
410 W	270 W	259 × 264 × 486 mm	235 m³/h	330 m³/h	■	■	–	8MR6423-5DE04
820 W	510 W	340 × 340 × 600 mm	330 m³/h	570 m³/h	■	■	–	8MR6423-5DE08
1150 W	550 W	401 × 415 × 567 mm	570 m³/h	1010 m³/h	■	■	–	8MR6423-5DE12
1550 W	810 W	401 × 415 × 567 mm	860 m³/h	1820 m³/h	■	■	–	8MR6423-5DE15
2050 W	1190 W	401 × 415 × 567 mm	1050 m³/h	1820 m³/h	■	■	–	8MR6423-5DE20
400 V, 50/60 Hz, acc. to VDE								
2900 W	1210 W	492 × 496 × 797 mm	860 m³/h	3410 m³/h	■	■	–	8MR6440-5DE30
3850 W	1630 W	492 × 496 × 797 mm	1450 m³/h	3410 m³/h	■	■	–	8MR6440-5DE40

Heat exchangers

Air/air heat exchangers, degree of protection IP54, color RAL 7035



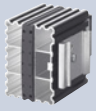
Thermal power	Rated power	Dimensions W × H × D	Air capacity Inside	Air capacity Outside	Design	Mounting Undrilled	Mounting Part	Article No.
230 V, 50/60 Hz, acc. to VDE								
36 W/K	140 W	316 × 771 × 103 mm	570 m³/h	570 m³/h	■	■	–	8MR6423-5ML36
80 W/K	240 W	317 × 1260 × 148 mm	1050 m³/h	1050 m³/h	■	■	–	8MR6423-5ML80

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Heater units

	Rated value	Rated power	Shutdown temperature	Article No.
	**Heater units with PTC thermistor, UL-approved, acc. to VDE, UL**			
	120 ... 240 V AC/DC	15 W	–	8MR2130-1A
		30 W	–	8MR2130-3A
		45 W	–	8MR2130-4A
		60 W	–	8MR2130-6A
		75 W	–	8MR2130-7A
		100 W	–	8MR2130-0A
		150 W	–	8MR2130-5A
	**Semiconductor heater units without thermostat, compact design, UL-approved, acc. to VDE**			
	120 ... 240 V AC/DC	50 W	–	8MR2131-4A
		100 W	–	8MR2131-0A
		150 W		8MR2131-5A
	**Semiconductor heater units with thermostat, compact design, acc. to VDE**			
	120 ... 240 V AC/DC	50 W	15 °C	8MR2132-1A
			25 °C	8MR2132-1AB
		100 W	15 °C	8MR2132-0A
			25 °C	8MR2132-0AB
		150 W	15 °C	8MR2132-5A
			25 °C	8MR2132-5AB
	**Semiconductor heater units, acc. to VDE**			
	12 ... 30 V AC/DC	15 W	–	8MR2130-1BA
		30 W	–	8MR2130-3BA
		45 W	–	8MR2130-4BA
		60 W	–	8MR2130-6BA

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Fan heaters

Fan heaters







Version	Voltage	Continuous heat output	Parameter	Article No.
Standard version, acc. to VDE, UL				
Without fan	230 V AC	100 W	–	8MR2140-0A
		150 W	–	8MR2140-1A
		200 W	–	8MR2140-2A
		300 W	–	8MR2140-3A
		400 W	–	8MR2140-4A
With fan	230 V AC	100 W	–	8MR2140-0B
		150 W	–	8MR2140-1B
		200 W	–	8MR2140-2B
		300 W	–	8MR2140-3B
		400 W	–	8MR2140-4B
Compact fan heater, acc. to VDE, UL				
Without fan	230 V AC	250 W	–	8MR2122-4A
		400 W	–	8MR2122-8A
	120 V AC	250 W	–	8MR2122-4B
		400 W	–	8MR2122-8B
With fan	24 V DC	250 W	–	8MR2122-4AB
	48 V DC	250 W	–	8MR2122-4AC
		400 W	–	8MR2122-8AA
With integrated thermostat, acc. to VDE, UL				
For floor mounting	230 V AC	950 W	0 ... +60 °C	8MR2150-0A
For wall mounting	230 V AC	950 W	0 ... +60 °C	8MR2150-0C
With integrated hygrostat, acc. to VDE, UL				
For wall mounting	230 V AC	950 W	65% R.H.	8MR2150-0CA

Semiconductor fan heaters









Mounting	Voltage	Continuous heat output	Version	Article No.
Fan heaters, acc. to VDE, UL				
Clip fixing	230 V AC	150 W	–	8MR2150-2C
		250 W	–	8MR2150-5A
		400 W	–	8MR2150-4A
	120 V AC	250 W	–	8MR2150-5AA
		400 W	–	8MR2150-4AA
Screw fixing	230 V AC	150 W	–	8MR2150-2D
		250 W	–	8MR2150-5B
		400 W	–	8MR2150-4B
	120 V AC	250 W	–	8MR2150-5AB
		400 W	–	8MR2150-4AB
PTC fan heaters for wall mounting, acc. to VDE, UL				
Screw fixing	230 V AC	1200 W	With thermostat 0 ... +60 °C	8MR2150-3A
		1200 W	Without thermostat	8MR2150-3B
Clip fixing	120 V AC	1200 W	With thermostat +32 ... +140 °F	8MR2151-3A
		1200 W	Without thermostat	8MR2151-3B
PTC fan heaters for floor mounting, acc. to VDE, UL				
Screw fixing	230 V AC	1200 W	With thermostat 0 ... +60 °C	8MR2150-2A
		1200 W	Without thermostat	8MR2150-2B
Clip fixing	120 V AC	1200 W	With thermostat +32 ... +140 °F	8MR2151-2A
		1200 W	Without thermostat	8MR2151-2B

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Thermostats

Adjustable thermostats









Version	Max. switching power	Temperature range	Article No.
Mini thermostat, acc. to VDE, UL			
NC with red adjusting knob	250 V AC, 10 (2) A	–10 ... +50 °C	8MR2170-1CA
		0 ... +60 °C	8MR2170-2BA
		+20 ... +80 °C	8MR2170-1DA
NO with blue adjusting knob	250 V AC, 10 (2) A	–10 ... +50 °C	8MR2170-1CB
		0 ... +60 °C	8MR2170-2BB
		+20 ... +80 °C	8MR2170-1DB
Mechanical thermostat, acc. to VDE, UL			
CO	250 V AC, 10 (4) A	+5 ... +60 °C	8MR2170-1A
		–20 ... +30 °C	8MR2170-1B
Electronic thermostat, acc. to VDE			
CO	230 V AC, 8 (1.6) A	–20 ... +60 °C	8MR2170-1GA
	120 V AC, 8 (1.6) A	–4 ... +140 °F	8MR2170-1GB
	24 V DC, 16 A	0 ... +60 °C	8MR2170-2A
CO, integrated	230 V AC, 8 (1.6) A	–20 ... +60 °C	8MR2170-1GC
Twin thermostat, acc. to VDE, UL			
NC and NO	250 V AC, 10 (2) A	0 ... +60 °C	8MR2170-1E
NO and NO	250 V AC, 10 (2) A	0 ... +60 °C	8MR2170-1EA

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Thermostats

Tamper-proof thermostats

	Version	Max. switching power	Shutdown temperature	Article No.
	**Tamper-proof thermostat, acc. to VDE, UL**			
	NC	250 V AC, 5 (1.6) A	15 °C	8MR2171-1BA
			25 °C	8MR2171-2BA
	NO	250 V AC, 5 (1.6) A	35 °C	8MR2171-3BB
			50 °C	8MR2171-1BB
			60 °C	8MR2171-2BB
	**Twin thermostat, acc. to VDE, UL**			
	NC and NO	250 V AC, 5 (1.6) A	15 °C | 50 °C (NC | NO)	8MR2172-1A
		250 V AC, 5 (1.6) A or 30 W DC	25 °C | 60 °C (NC | NO)	8MR2172-2A
	NO and NO	250 V AC, 5 (1.6) A	50 °C | 60 °C (NO | NO)	8MR2172-1AB

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Hygrostats and hygrotherms

Hygrostats





Version	Relative air humidity	Voltage	Max. switching power	Article No.
Mechanical hygrostat, acc. to VDE, UL				
CO	35 ... 95%	230 V AC	250 V AC, 5 (0.2) A/20 W DC	8MR2170-1C
Electronic hygrostat, acc. to VDE				
CO	40 ... 90%	230 V AC	240 V AC, 8 (1.6) A	8MR2170-1AF
		120 V AC	240 V AC, 8 (1.6) A	8MR2170-2AF
	65%	230 V AC	240 V AC	8MR2170-1BF
		120 V AC	120 V AC	8MR2170-2BF

Hygrotherms



Version	Relative air humidity	Temperature range	Voltage	Max. switching power	Article No.
Electronic hygrotherm, acc. to VDE, UL					
NC and NO	50 ... 90%	+32 ... +140 °F	100 ... 240 V AC	NC: 120 V AC, 6 (1) A NO: 120 V AC, 8 (1.6) A	8MR2170-4F
		0 ... +60 °C	100 ... 240 V AC	NC: 100 ... 240 V AC, 6 (1) A NO: 100 ... 240 V AC, 8 (1.6) A	8MR2170-4E

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Appendix



Conditions of sale and delivery A/2

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Catalogs and further information



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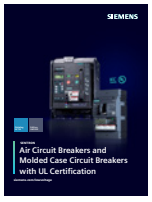
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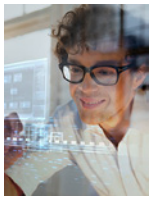
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