	General information about this product	
	Product features EMB8000+	
	Scope of the configuration software	To the
	Application example of a complete system	infor-
Information	Basic versions expandable:	mation
	Planning notes / expansion limitation / configuration / parameter of modules	
A2A42A44	EMB8000+ Basic versions expandable	
1000	■ EMB8000+ 5 A	
	EMB8000+ 10 A	To the
	EMB8000+ 24 A	product
and the second second	EMB8000+ 48 A	
	■ EMB8000+ 72 A	
	■ EMB8000+ 96 A	
	EMB8000+ module	
	■ + 230 V-DM Vent ■ WM	To the
2.44		product
	IDM PM SM PME	
	SM PME	
	EMB8000+ accesories	
	Terminals	
	Service	To the
	Surge arrester Type 3	product
11	Automatic circuit breaker	
	Software licence EMB 8000+ Alpha	
EHB 8000+ Virtually Zentrals	Accumulators	
Zentzik konfigurieren Werstonsstillung	Relay interface + Wall fixing brackets	
	Time switch	
	Temperature sensor	
·		
9		



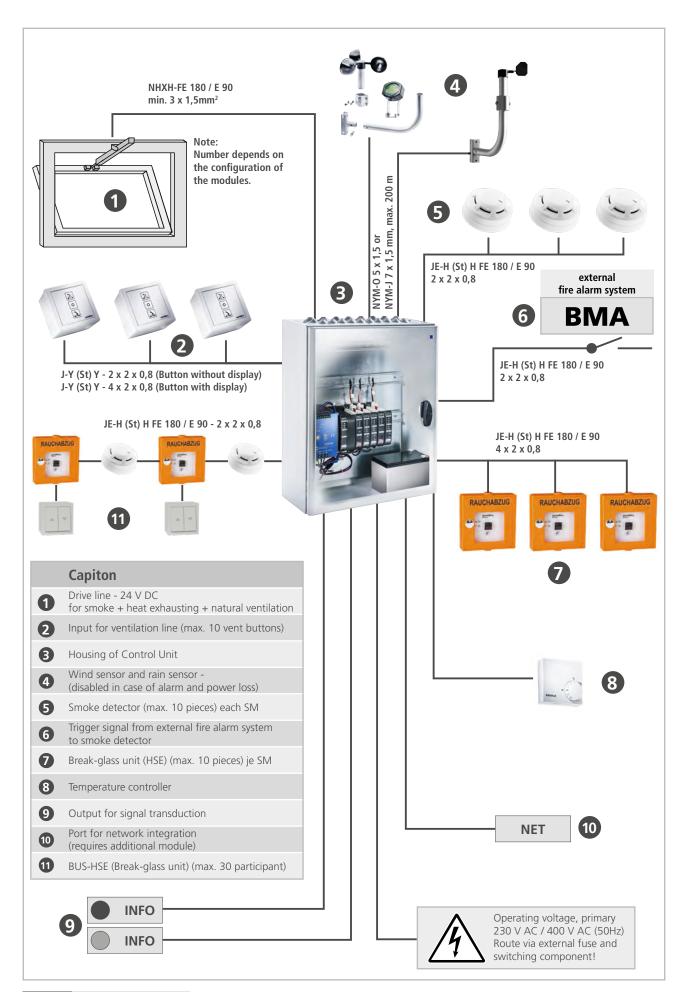
For this product series, a Type III Environmental Product Declaration (EPD) was issued according to ISO 14025 and EN 15804.

The LCA results of the different product types are listed at the end of this product catalogue. The EPD documents can be viewed or downloaded from our homepage **www.aumuellergmbh.de**.

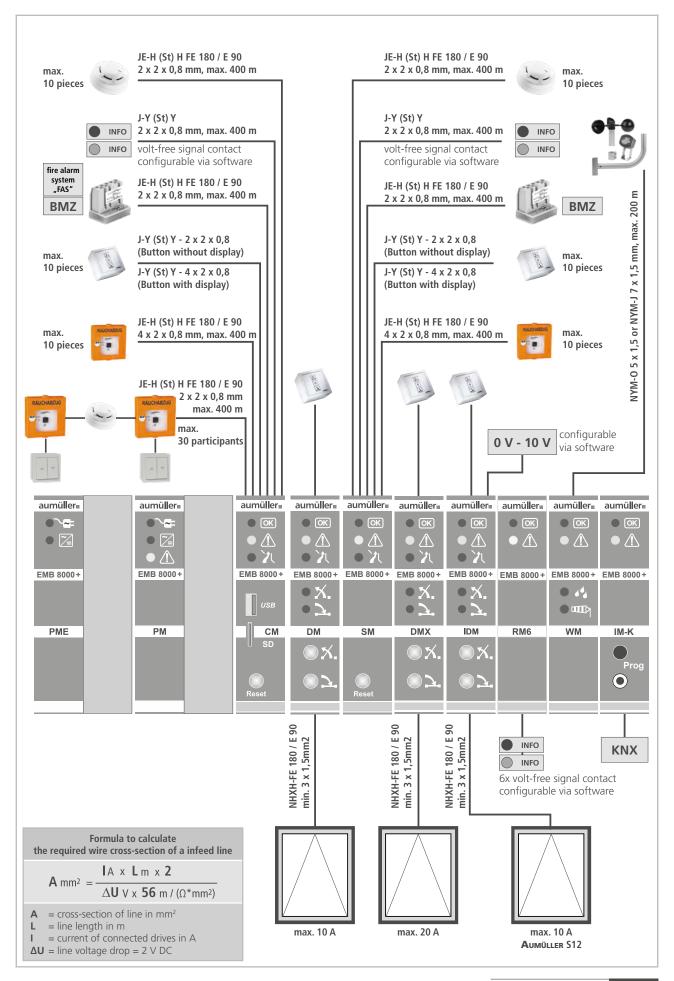
#### **PRODUCT FEATURES EMB 8000+**

- Modular control panel with digital bus technology and power supply for 24 V DC drives for use in smoke and heat exhausting ventilation (SHEV) and in controlled natural ventilation systems
- Control panel compliant with prEN 12101-9 / ISO 21927-9
- Power supply compliant with EN 12101-10
- Low residual ripple output voltage (<2 Vpp) compatible with all common drives
- Easy and space saving installation on 35-mm snap-on mounting rail with many combination options
- Easy configuration of SHEV and ventilation groups by selective lining up of the modules
- Control- and Sensor-Module with 3 monitored detector lines with different priorities for connecting with:
  - Manual break-glass unit (HSE)
  - Automatic smoke and heat detectors
  - Control signal from fire alarm system (FAS)
- Drive-Module with monitored line outputs for connection of drives up to 20 A
- Relay-Module for the evaluation and transsmision of events (emergency open signal, fault signal, feedback signals)
- Weather-Module for connection with wind speed sensors, wind direction sensors and rain sensors
- Network-Modules for connection and integration with building management systems (CAN, KNX)
- All ventilation button inputs with OPEN-STOP-CLOSE function and adjustable priorities
- Clear operating and display elements
- Extensive settings of the basic functions via software offered by download free of charge
- Special functions programmable via extra costs software license as in the following:
- Service and maintenance intervals
  - Changes of priorities, switching-thresholds and switch-off times
  - Deactivation of the detector lines or of their monitoring
  - Control of the alarm functions by a volt-free contact of the fire alarm system (FAS)
  - Network integration
- Steel sheet housing, protection class IP40 / IP54 alternatively available with wall fixing brackets, cable exit from above
- Prepared for connection of backup batteries (72 hours)
- VdS certification no.: G 512005
- In the state of delivery, the interconnection of SHEV and ventilation groups can be configured
   by targeted lining up of the modules without software.
- System components for individual assembly consisting of functional basic control units each with one SHEV and one ventilation group, as well as a variety of modules and components that can be ordered either as factory-installed or for customer-side yourself installation.
- Software licences for enabling and configuration of complex integrated special functions as well as for the interconnection
  of multiple control units to a network with higher-ranking funktions for SHEV, ventilation and weather groups
- Fully assembled and configured at the factory or by self-expansion.
- Fully assembled and configured from the factory or for self-removal
- Individual customization through extensive software options

SCOPE OF THE CONFIGURATION SOFTWARE EMB 8000+		
Functions	Standard	Lizenz
Load configuration / Safe / Safe as	$\checkmark$	$\checkmark$
View, save and print system status	$\checkmark$	$\checkmark$
Set thresholds and on-off delay of wind sensor		$\checkmark$
Create PDF of the configuration	$\checkmark$	$\checkmark$
System configuration / Load settings / Save settings	$\checkmark$	$\checkmark$
Read RealTime LOG-Data	$\checkmark$	$\checkmark$
Set Password for control unit		$\checkmark$
Edit RealTime LOG-Data		$\checkmark$
Firmware update		$\checkmark$
Configure switching thresholds and on-off delay of the wind sensor		$\checkmark$
Configure switching thresholds of wind direction sensor		$\checkmark$
System time synchronisation / updating		$\checkmark$
Backup battery monitoring: Performance and fault indications (active, windows OPEN / CLOSE)		$\checkmark$
Set backup battery type and charging characteristics (temperature dependent / constant)		$\checkmark$
Power supply loss: Performance and fault indication (Energy saving mode, CLOSE, ventilation mode)		$\checkmark$
Ventilation push button in dead-man or jog-switch mode (OPEN or/and CLOSE direction)		$\checkmark$
Ventilation push button as one rocker push-button (OPEN/STOP or CLOSE/STOP with one button)		$\checkmark$
Set step-automatic in OPEN-direction (Automatic enabled / Time setting)		$\checkmark$
Enable reset of smoke detector lines with emergency-CLOSE button		$\checkmark$
Enable control of smoke detector line by fire alarm system "FAS"		$\checkmark$
Disable alarms caused by detector line monitoring failures (Automatic and manual detectors)		$\checkmark$
Disable fault detection of detector lines (Automatic and manual detectors)		$\checkmark$
Set functions of PM, CM and SM relay contact		$\checkmark$
Set service and maintenance interval and system behaviour		$\checkmark$
Set drive line mode for use with motors, magnets or gas pressure generators		·
Disable retriggering of drive line in alarm mode		√
Set switch-off time of drive lines		·
Enable and set automatic time-controlled drive line closing mode for ventilation purpose		, ,
Enable drive closing mode on primary power loss		·
Set drive run time and opening stroke limit for ventilation purpose		· ·
Set failures of drive line monitoring as alarm signal		· ·
Set drive running direction in alarm mode from open to close		*
Set signal input of DM drive line (feedback input / inhibiting input)		*
Set wind direction dependent OPENING / CLOSING of drive lines		•
		v
Reset switch positions to the status before the weather control were activated		v
Set emergency close button from jog-switch mode to dead-man mode		v
Set functions of RM6 relays		V
Set assignment of detector and drive lines to SHEV, ventilation and weather groups		V
Interconnection of several control units to a network with higher-ranking functions		V
ntegration into digital networks (CAN, KNX) (requires additional modules)		$\checkmark$



## Overview SHEV Modular Control Unit EMB8000+



Overview SHEV Modular Control Unit EMB8000+

### **IMPORTANT NOTES**

The modular design of EMB 8000+ in combination which digital network technology make it possible for our customers to size, assemble and configures the control units by themselves.

For this **Aumüller** is providing the required hardware and software.

The minimum equipment of a fully functional Control Unit:

- 1x Switch mode power supply PS 5 A up to 24 A the installation up to 3 identical power supplies up to a maximum of 72 A is possible
- 2x Accumulators 12 V DC from 7 Ah to 38 Ah to ensure the emergency power supply for 72 hours
- 1x Power-Module PM for the charging control of accumulators – completed with up to 2 Power-Module-Extensions PME
- 1x Control-Module CM with 3 detector input lines for automatic and manual smoke detectors and 1 ventilation button input line
- 1x Drive-Module DM, IDM or DMX for connection of drives with a total current consumption of 10 A respectively 20 A and 1 ventilation button input line

The control units on the following pages are intended for individual configuration and are prepared for 1 SHEV group with 1 ventilation line (10 A or 20 A) and are preprogrammed for basic functions.

**AUMÜLLER** does not assume any liability for further changes and configurations of these control units.

## PLANNING NOTES

The build-in modules of EMB 8000+ are connected to each other and communicate via the digital network bus. On delivery respectively as long as the delivered software configuration is not changed, the modules are self-learning. SHEV groups can be easily and felxibel configured by selective lining up of the modules. A new SHEV group is created by adding a Sensor-Module (SM) into the row. All following Drive-Modules (DM / DMX) belong to the new SHEV group.

In the Control Units with several switch mode power supplies in one housing (48 A and 72 A), the interconnection of Drive-Modules (DM / DMX) and their total current consumption has to be adapted to the current consumption of the individual switch mode power supply at which they are connected. This can be done by replugging the power supply of the modules. The SHEV group to which the DM / DMX belongs is irrelevant. To ensure the optimum of safety in case of a failure of a switch mode power supply, it is recommended to power the DM/DMX of one SHEV group from only one switch mode power supply. The maximum switching capacity of the DM-modules is to be noted.

Due to the compact design of the modules, the module connection terminals for peripheral devices are limited to 1 mm<sup>2</sup> and for drive lines to 2,5 mm<sup>2</sup> rigid wire conductors. The cross sections of the wires between control unit and drives depend on the cable length, the current consumption as well as the voltage drop on the line. A 35-mm snap-on mounting rail is provided inside the housing, for additional bigger connection terminals if the required cable cross section is larger than the module-own connection terminals. Suitable connection terminals will be found under "accessories". The cross sections of the cables may be calculated with the formula indicated in chart 5.

### **EXPANSION LIMITATIONS / SYSTEM LIMITS**

The following key data must be taken into account when dimensioning SHEV Control Units:

- Number of smoke detectors per CM / SM 10 piece
- Number of break-glass units per CM / SM 10 piece
- Number of digital trigger units per CM 30 piece
- Number of smoke detectors per control unit 60 piece
- Number of break-glass units per control unit 60 piece
- Own power consumption per Control Unit (see chart 3 at the following page)
- Accumulator capacity / max. power consumption per Control Unit (see chart 3 at the following page)
- Dimensions of housing
- Cable entries

All values in the tables refer to the maximum assignment of the module inputs / outputs. The current values are given for maintaining the emergency power supply over a period of 72 hours. Other calculation bases on request.

The sum of the self-consumption of all modules in a Control Unit must not exceed the maximum permissible current of the Control Unit. To calculate the total power consumption, the individual consumption of the installed modules must be added.

The details of the outer diameter of cables refer to the cable types common in Germany. The wire cross-sections are given in mm<sup>2</sup>. To maintain the electrical protection class of the Control Unit housing, only one cable is permitted per cable entry.

For checking purposes, the total number of cables required must be determined in accordance with Table 1 and coordinated with the number of cable entries in the Control Units from Table 4. Due to the hardware and software, the EMB8000 + is limited by the following points. Configuration using the software is guaranteed within these limits.

 A maximum of 50 modules per Control Unit (including CM, excluding PM and PMEs). The following maximum number of modules of the same type are supported per control center (in the network).

Module	Maximum per Control Unit	Maximum per network
PME	2	60
PM	1	30
CM+	1	30
SM	20	570
DM	40	570
DMX	10	300
IDM	30	300
230 V DM Vent	20	570
RM6	20	570
WM	1	2
IMK	2	5

<sup>2.</sup> A maximum of 30 Conrol Unit in the network.

- 3. A maximum of 600 modules in the network (including CMs, excluding PMs and PMEs) e.g.: 30 Control Units with 20 modules or 12 Control Units with 50 modules.
- 4. 150 Can actuators (\*) are supported without blocking the triggering CMs. Each additional Can actuator results in a recording delay of 9 ms.
  - (\*) Can actuator is an actuator in another Control Unit than the one in which the sensor is located.

### CONFIGURATION AND PARAMETERIZATION

The basic configuration software for EMB 8000+ Control Units is available download on (free of charge for):

#### www.aumueller-gmbh.de/downloads/software/ . . .

For the configuration of special functions or integration of Control Units into networks, a software license (with extra costs) is required.

CHART 1: PAR	CHART 1: PARAMETER OF MODULES EMB 8000+											
Features					Cables for inputs and outputs							
Module	Module width [mm]	Module units [ME]	Internal current consumption [mA]	Cable entries when using all inputs/outputs [pcs.]	Smoke detectors, FAS	Manual detectors Break-glass units	Drive line	Ventilation button with display	Ventilation button w/o display, other inputs	Volt free contact, drive feedback signal	Wind/Rain/Wind direction	Power supply
PM	46	2	16,0	1								1
PME	46	2	0,0	0								
CM+	23	1	34,1	5	2	1			1	1		
SM	23	1	12,6	5	2	1			1	1		
DM	23	1	5,3	3			1	1		1		
230 V DM	23	1	7,0	3			1	1		1		
DMX	46	2	5,3	3			1	1		1		
IDM	23	1	6,0	5			1	1		1		
RM6	23	1	5,3	1						1–6		
IM-K	23	1	6,0	10								
WM	23	1	13,0	4					2	1	1	
Rec. Number o (w/o protectiv		onductor)			4	8	4	8	4	4	7	3

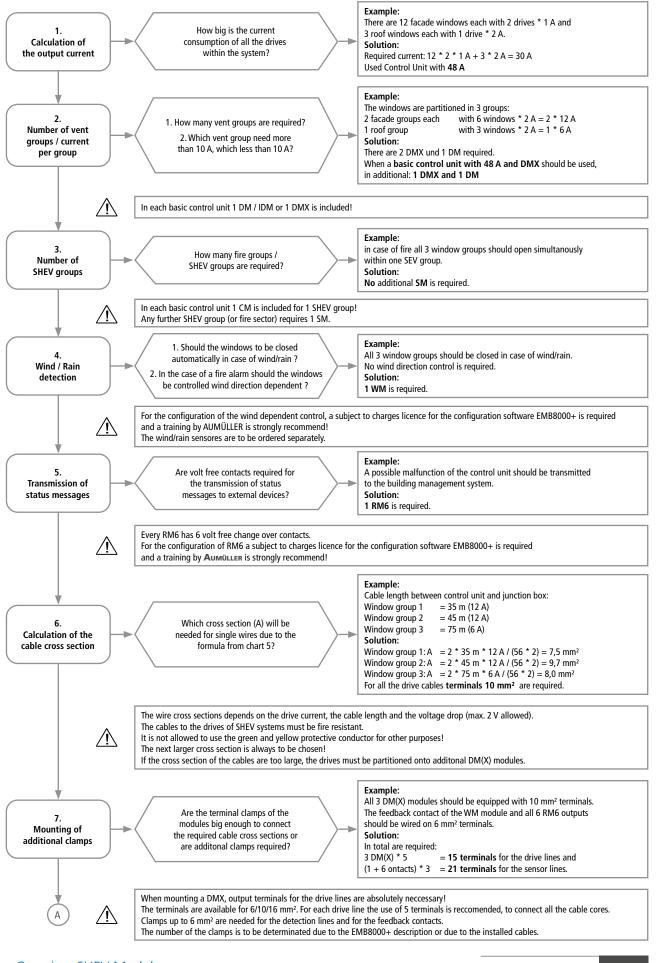
## CHART 2: INTERNAL CURRENT CONSUMPTION OF BACKUP BATTERY POWERD DETECTORS

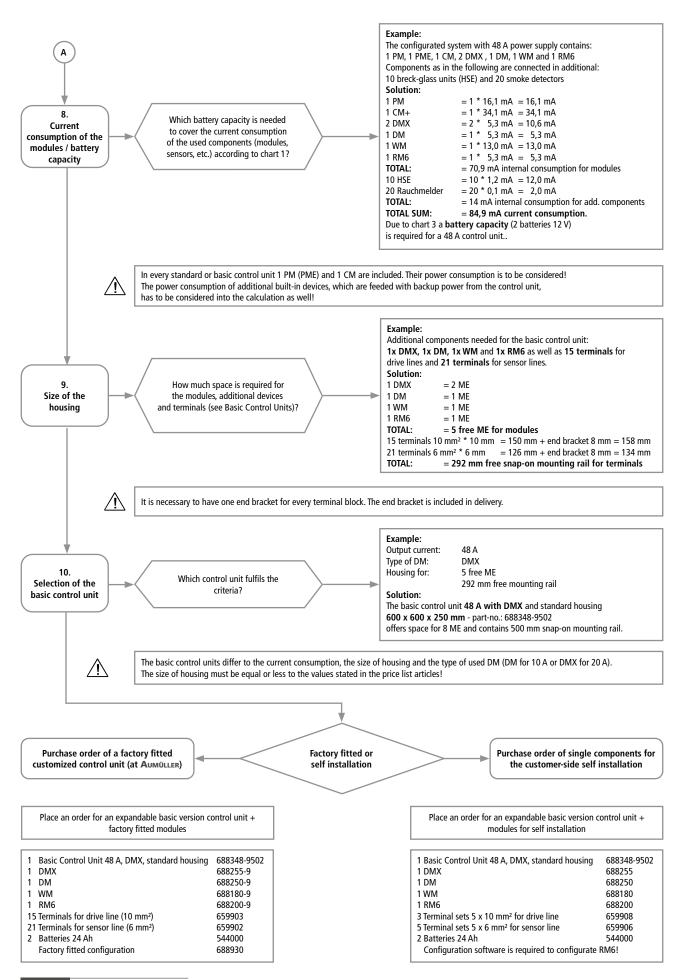
Break-glass main unit	HSE	1,2 mA
Break-glass seccondary unit	HSE-N	0,0 mA
Smoke detector	ORM	0,1 mA
Wind direction sensor	WRG	7,1 mA
BUS Break-glass main unit	BUS-HSE	2,8 mA
BUS Smoke detector	BUS-RM	1,0 mA

CHART 3: MAXIMUM CURRENT CONSUMPTION PER CONTROL UNIT							
PS / Battery	7 Ah	12 Ah	17 Ah	24 Ah	38 Ah		
10 A	$\sim$	120 mA	140 mA	240 mA	350 mA		
24 A	$\sim$	70 mA	120 mA	200 mA	300 mA		
48 A			80 mA	170 mA	300 mA		
72 A	$\rightarrow$	$\sim$	$\sim$	100 mA	300 mA		

CHART 4: DIMENSIONS OF CONNECTION TERMINALS (pull spring feed through terminal blocks)							
Terminal size [mm]	6 mm <sup>2</sup>	10 mm <sup>2</sup>	16 mm <sup>2</sup>	End bracket			
Cross section of the wire (rigid wire)	0,13–6 mm <sup>2</sup>	2,5–10 mm <sup>2</sup>	4–16 mm <sup>2</sup>	$\sim$			
External width (feed through terminal)	6 mm	10 mm	12 mm	8 mm			
Width of set with 5 terminals + end bracket	38 mm	58 mm	$\sim$	$\sim$			

CHART !	CHART 5: CALCULATION OF DRIVE CABLES					
A = 2 * l	L * I / (56 * ∆U)					
A	Cross section of wire [mm <sup>2</sup> ]					
L	Length of the line [m]					
1	Current of the drives [A]					
ΔU	Voltage drop on the line $[V] = max. 2 V$					





07/2022

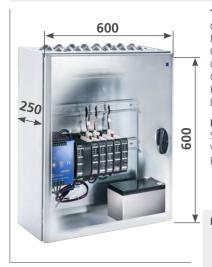
### **ORDER DATA**

EMB8000+ 5 A	(400 x 500 x 200 mm)						
Application: E>	xpandable basic version of	modular cor	ntrol unit EMB 8000	+, factory fitted and fully wired	for customer	-side self-co	onfiguration.
		Operating v	r consumption: age: rent: (WxHxD): te: os: s: uipment:	lues) 230 V AC (195 – 253 V 322 W 24 V DC (20 – 28 V DC 5 A surface mounting, stee 400 x 500 x 200 mm 1 1 PM, CM, DM max. 2 x 12 V / 12 Ah (	/ 0,5 Vpp) sheet, RAL 7	035 (light g	
		Features:	that the total curr	e control unit has to examine a ent consumption of the interna e used modules and cable entri nitations.	l and externa	l devices,	, ,
VERSIONS							
PartNo.	equip module	free module	e units	free space			

PartNo.	equip module	free module units	free space		
688305-9501	PM, CM, <b>DM</b>	ME 8	HS <b>300</b> mm		
688305-9503	PM, CM, <b>IDM</b>	ME 8	HS <b>300</b> mm		

#### EMB8000+ 5 A (600 x 600 x 250 mm)

Application: Expandable basic version of modular control unit EMB 8000+, factory fitted and fully wired for customer-side self-configuration.



#### TECHNICAL DATA (Rated values)

Operating voltage: Max. power consumption: Output voltage: Output current: Connections and functions: Housing: Dimensions (WxHxD): **Delivery state:** 

# SHEV groups:

Vent groups: Prepared for batteries:

#### 230 V AC (195 – 253 V AC, 50/60 Hz) 322 W 24 V DC (20 – 28 V DC / 0,5 Vpp) **5 A** depends on extension surface mounting, steel sheet, RAL 7035 (light grey) **600 x 600 x 250 mm**

1 max. 2x 12 V / 12 Ah (Capacity acc. to equipment)

**Features:** The installer of the control unit has to examine and to respect on its sole responsibility that the total current consumption of the internal and external devices, the number of the used modules and cable entries match with the battery capacity and the system limitations.

1

VERSIONS					
PartNo.	equip module	free module units	free space		
688305-9601	PM, CM, <b>DM</b>	ME <b>19</b>	HS <b>500</b> mm		
688305-9603	PM, CM, <b>IDM</b>	ME <b>19</b>	HS <b>500</b> mm		

5 A



### **ORDER DATA**

#### EMB8000+ 10 A (400 x 500 x 200 mm)

Application: Expandable basic version of modular control unit EMB 8000+, factory fitted and fully wired for customer-side self-configuration.



#### **TECHNICAL DATA (Rated values)**

Operating voltage: Max. power consumption: Output voltage: Output current: Connections and functions: Housing: Dimensions (WxHxD): Delivery state:

SHEV groups: Vent groups: Prepared for batteries: 230 V AC (195 – 253 V AC, 50/60 Hz) 506 W 24 V DC (20 – 28 V DC / 0,5 Vpp) **10 A** depends on extension surface mounting, steel sheet, RAL 7035 (light grey) **400 x 500 x 200 mm** 

10 A

1 max. 2x 12 V / 12 Ah (Capacity acc. to equipment)

**Features:** The installer of the control unit has to examine and to respect on its sole responsibility that the total current consumption of the internal and external devices, the number of the used modules and cable entries match with the battery capacity and the system limitations.

1

## VERSIONS

1 = 110 : 0 : 10					
PartNo.	equip module	free module units	free space		
688310-9501	PM, CM, <b>DM</b>	ME <b>7</b>	HS <b>300</b> mm		
688310-9503	PM, CM, IDM	ME <b>7</b>	HS <b>300</b> mm		

#### EMB8000+ 10 A (600 x 600 x 250 mm)

Application: Expandable basic version of modular control unit EMB 8000+, factory fitted and fully wired for customer-side self-configuration.



#### TECHNICAL DATA (Rated values)

Operating voltage: Max. power consumption: Output voltage: Output current: Connections and functions: Housing: Dimensions (WxHxD): Delivery state:

# SHEV groups:

Vent groups: Prepared for batteries:

#### 230 V AC (195 – 253 V AC, 50/60 Hz) 506 W 24 V DC (20 – 28 V DC / 0,5 Vpp) **10 A** depends on extension surface mounting, steel sheet, RAL 7035 (light grey) **600 x 600 x 250 mm**

1 max. 2x 12 V / 38 Ah (Capacity acc. to equipment)

**Features:** The installer of the control unit has to examine and to respect on its sole responsibility that the total current consumption of the internal and external devices, the number of the used modules and cable entries match with the battery capacity and the system limitations.

1

VERSIONS					
PartNo.	equip module	free module units	free space		
688310-9601	PM, CM, <b>DM</b>	ME <b>19</b>	HS <b>500</b> mm		
688310-9603	PM, CM, <b>IDM</b>	ME <b>19</b>	HS <b>500</b> mm		

### **ORDER DATA**

EMB 8000+ 24	EMB8000+ 24 A (600 x 600 x 250 mm)					
Application:	Expandable basic version c	of modular control unit EMB 800	0+, factory fitted and fully wired for customer-side self-configuration.			
		TECHNICAL DATA (Rated v. Operating voltage: Max. power consumption: Output voltage: Output current: Connections and functions: Housing: Dimensions (WxHxD): Delivery state:	alues) 230 V AC (195 – 253 V AC, 50/60 Hz) 805 W 24 V DC (20 – 28 V DC / 0,5 Vpp) 24 A depends on extension surface mounting, steel sheet, RAL 7035 (light grey) 600 x 600 x 250 mm			
	<b>900</b>	SHEV groups: Vent groups: Prepared for batteries:	1 1 max. 2x 12 V / 38 Ah (Capacity acc. to equipment)			
		<b>Features:</b> The installer of the control unit has to examine and to respect on its sole responsib that the total current consumption of the internal and external devices, the number of the used modules and cable entries match with the battery capacity and the system limitations.				
VERSIONS	VERSIONS					
PartNo.	equip module	free module units	free space			

PartNo.	equip module	free module units	free space		
688324-9501	PM, CM, <b>DM</b>	ME <b>19</b>	HS <b>500</b> mm		
688324-9502	PM, CM, <b>DMX</b>	ME 18	HS <b>500</b> mm		
688324-9503	PM, CM, IDM	ME 19	HS <b>500</b> mm		

#### EMB8000+24 A (600 x 800 x 250 mm)

Application: Expandable basic version of modular control unit EMB 8000+, factory fitted and fully wired for customer-side self-configuration.



**TECHNICAL DATA (Rated values)** 

Operating voltage: Max. power consumption: Output voltage: Output current: Connections and functions: Housing: Dimensions (WxHxD): Delivery state:

SHEV groups: Vent groups: Prepared for batteries:

#### 24 A 230 V AC (195 - 253 V AC, 50/60 Hz) 805 W 24 V DC (20 - 28 V DC / 0,5 Vpp) 24 A depends on extension surface mounting, steel sheet, RAL 7035 (light grey) 600 x 800 x 250 mm

1 max. 2x 12 V / 38 Ah (Capacity acc. to equipment)

Features: The installer of the control unit has to examine and to respect on its sole responsibility that the total current consumption of the internal and external devices, the number of the used modules and cable entries match with the battery capacity and the system limitations.

1

VERSIONS						
PartNo.	equip module	free module units	free space			
688324-9601	PM, CM, <b>DM</b>	ME 26	HS <b>500</b> mm			
688324-9602	PM, CM, <b>DMX</b>	ME 25	HS <b>500</b> mm			
688324-9603	PM, CM, IDM	ME 26	HS <b>500</b> mm			



#### **ORDER DATA**

#### EMB8000+48 A (600 x 600 x 250 mm)

Application: Expandable basic version of modular control unit EMB 8000+, factory fitted and fully wired for customer-side self-configuration.



#### **TECHNICAL DATA (Rated values)**

Operating voltage: Max. power consumption: Output voltage: Output current: Connections and functions: Housing: Dimensions (WxHxD): **Delivery state:** 

SHEV groups: Vent groups: Prepared for batteries: 230 V AC (195 – 253 V AC, 50/60 Hz) 1610 W 24 V DC (20 – 28 V DC / 0,5 Vpp) **48 A** depends on extension surface mounting, steel sheet, RAL 7035 (light grey) **600 x 600 x 250 mm** 

1 max. 2x 12 V / 38 Ah (Capacity acc. to equipment)

**Features:** The installer of the control unit has to examine and to respect on its sole responsibility that the total current consumption of the internal and external devices, the number of the used modules and cable entries match with the battery capacity and the system limitations.

1

VERSIONS					
PartNo.	equip module	free module units	free space		
688348-9501	PM, PME, CM, <b>DM</b>	ME 9	HS <b>500</b> mm		
688348-9502	PM, PME, CM, <b>DMX</b>	ME 8	HS <b>500</b> mm		
688348-9503	PM, PME, CM, IDM	ME 9	HS <b>500</b> mm		

#### EMB8000+48 A (600 x 800 x 250 mm)

Application: Expandable basic version of modular control unit EMB 8000+, factory fitted and fully wired for customer-side self-configuration.



#### TECHNICAL DATA (Rated values)

Operating voltage: Max. power consumption: Output voltage: Output current: Connections and functions: Housing: Dimensions (WxHxD): **Delivery state:** 

### SHEV groups:

Vent groups: Prepared for batteries:

#### 230 V AC (195 – 253 V AC, 50/60 Hz) 1610 W 24 V DC (20 – 28 V DC / 0,5 Vpp) **48 A** depends on extension surface mounting, steel sheet, RAL 7035 (light grey) **600 x 800 x 250 mm**

1 max. 2x 12 V / 38 Ah (Capacity acc. to equipment)

**Features:** The installer of the control unit has to examine and to respect on its sole responsibility that the total current consumption of the internal and external devices, the number of the used modules and cable entries match with the battery capacity and the system limitations.

1

PartNo.	equip module	free module units	free space			
688348-9601	PM, PME, CM, DM	ME 17	HS <b>500</b> mm			
688348-9602	PM, PME, CM, <b>DMX</b>	ME 16	HS <b>500</b> mm			
688348-9603	PM, PME, CM, IDM	ME <b>17</b>	HS <b>500</b> mm			

### **ORDER DATA**

EMB8000+72	<b>A</b> (600 x 800 x 250 mm)						
Application: Ex	xpandable basic version of m	nodular con	trol unit EMB 8000+, fa	actory fitted and fully wired	for customer-	-side self-co	onfiguration.
250		Operating voltage: Max. power consumption: Output voltage: Output current: Connections and functions: Housing: Dimensions (WxHxD): <b>Delivery state:</b> SHEV groups: Vent groups: Prepared for batteries:		230 V AC (195 – 253 V AC, 50/60 Hz) 2415 W 24 V DC (20 – 28 V DC / 0,5 Vpp) 72 A depends on extension surface mounting, steel sheet, RAL 7035 (light grey) 600 x 800 x 250 mm 1 1 max. 2x 12 V / 38 Ah (Capacity acc. to equipment)			
¥		Features: The installer of the control unit has to examine and to respect on its that the total current consumption of the internal and external devi the number of the used modules and cable entries match with the b and the system limitations.		devices,	, ,		
VERSIONS							
PartNo.	equip module	free mo	dule units	free space			
688372-9501	PM, 2x PME, CM, DM	ME <b>15</b>		HS <b>500</b> mm			
688372-9502	88372-9502 PM, 2x PME, CM, DMX			HS <b>500</b> mm			

#### EMB8000+72 A (800 x 800 x 250 mm)

PM, 2x PME, CM, IDM

688372-9503

Application: Expandable basic version of modular control unit EMB 8000+, factory fitted and fully wired for customer-side self-configuration.

HS 500 mm

1



TECHNICAL DATA (Rated values)

Operating voltage: Max. power consumption: Output voltage: Output current: Connections and functions: Housing: Dimensions (WxHxD): **Delivery state:** 

#### SHEV groups: Vent groups: Prepared for batteries:

ME 15

230 V AC (195 – 253 V AC, 50/60 Hz) 2415 W 24 V DC (20 – 28 V DC / 0,5 Vpp) 72 A depends on extension surface mounting, steel sheet, RAL 7035 (light grey) 800 x 800 x 250 mm

1 max. 2x 12 V / 38 Ah (Capacity acc. to equipment)

**Features:** The installer of the control unit has to examine and to respect on its sole responsibility that the total current consumption of the internal and external devices, the number of the used modules and cable entries match with the battery capacity and the system limitations.

VERSIONS	VERSIONS					
PartNo.	equip module	free module units	free space			
688372-9601	PM, 2x PME, CM, DM	ME <b>24</b>	HS <b>700</b> mm			
688372-9602	PM, 2x PME, CM, <b>DMX</b>	ME 23	HS <b>700</b> mm			
688372-9603	PM, 2x PME, CM, IDM	ME 24	HS <b>700</b> mm			



#### **ORDER DATA**

#### EMB8000+96 A (800 x 800 x 250 mm)

Application: Expandable basic version of modular control unit EMB 8000+, factory fitted and fully wired for customer-side self-configuration.



#### **TECHNICAL DATA (Rated values)** Operating voltage:

Max. power consumption: Output voltage: Output current: Connections and functions: Housing: Dimensions (WxHxD):

**Delivery state:** SHEV groups: Vent groups: Prepared for batteries: 400 V AC (50 / 60 Hz) 3 outer conductor 3220 W 24 V DC (20 – 28 V DC / 0,5 Vpp) 96 A depends on extension surface mounting, steel sheet, RAL 7035 (light grey) 800 x 800 x 250 mm

2 12 max. 4x 12 V / 38 Ah (Capacity acc. to equipment)

**Features:** The installer of the control unit has to examine and to respect on its sole responsibility that the total current consumption of the internal and external devices, the number of the used modules and cable entries match with the battery capacity and the system limitations.

VERSIONS					
PartNo.	equip module	free module units	free space		
688396-9501	2x PM, 2x PME, 2x CM, 2x <b>DM</b>	ME 10	HS <b>700</b> mm		
688396-9502	2x PM, 2x PME, 2x CM, 2x DMX	ME 9	HS <b>700</b> mm		
688396-9503	2x PM, 2x PME, 2x CM, 2x IDM	ME 10	HS <b>700</b> mm		

#### EMB8000+96 A (800 x 1000 x 250 mm)

Application: Expandable basic version of modular control unit EMB 8000+, factory fitted and fully wired for customer-side self-configuration.



#### **TECHNICAL DATA (Rated values)** Operating voltage:

Max. power consumption: Output voltage: Output current: Connections and functions: Housing: Dimensions (WxHxD):

**Delivery state:** SHEV groups: Vent groups: Prepared for batteries: 400 V AC (50/60 Hz) 3 outer conductor 3220 W 24 V DC (20 – 28 V DC / 0,5 Vpp) 96 A depends on extension surface mounting, steel sheet, RAL 7035 (light grey) 800 x 1000 x 250 mm

96 A

2 2 max. 4x 12 V / 38 Ah (Capacity acc. to equipment)

**Features:** The installer of the control unit has to examine and to respect on its sole responsibility that the total current consumption of the internal and external devices, the number of the used modules and cable entries match with the battery capacity and the system limitations.

PartNo.	equip module	free module units	free space			
688396-9601	2x PM, 2x PME, 2x CM, 2x <b>DM</b>	ME 17	HS <b>1000</b> mm			
688396-9602	2x PM, 2x PME, 2x CM, 2x <b>DMX</b>	ME 16	HS <b>1000</b> mm			
688396-9603	2x PM, 2x PME, 2x CM, 2x IDM	ME 17	HS <b>1000</b> mm			

### **ORDER DATA**

DM – Drive-N	Module						
Application:	For the controlling of dri	ves, gas-press	sure generators and magr	netic locks.			
		TECHNICA Operating V Output volt Internal cor Output curr Housing (W Module uni Inputs: Outputs: Display: Control elei Connection	:age: nsumption: rent: /xHxD): its: ments:	24 V DC 24 V DC (20 – 28 V DC 5,3 mA <b>10 A</b> 100 x 120 x 22,5 mm, <i>A</i> 1 ME Vent. buttons (max. 10 Drive line (gas-pressure Power, fault, alarm, run Front push button: OPE Plug-in terminals 1 mm <sup>2</sup> Blade terminals 6,3 mm socket and plug with ca	ABS, black pcs), feedbac generators / r ning directior N / CLOSE <sup>2</sup> (rigid wire), : Power supp	magnetic lo n OPEN / CL Drives: 2,5 i ly,	cks) OSE
			Configuration of the fu	xing on 35-mm mounting nctional and performance a configuration software B	features, wh	ich deviates	from
VERSIONS							
PartNo.							
688250	Delivery in parcel	for custome	er self-installation				
688250-9	Module factory fitted	factory fitte	ed and fully wired				

### 230 V-DM Vent – Drive-Modul Vent

Application: For the controlling of 230 V AC drives.



# **TECHNICAL DATA (Rated values)** Oper Outp

Operating voltage:	230 V AC <b>5 A</b>
Output voltage:	230 V AC
Internal consumption:	7,0 mA
Output current:	5 A
Housing (WxHxD):	100 x 120 x 22,5 mm, ABS, black
Module units:	1 ME
Inputs:	Vent. buttons (max. 10 pcs), feedback contact OPEN/CLOSE
Outputs:	Drive line
Display:	Power, fault, alarm, running direction OPEN / CLOSE
Control elements:	Front push button: OPEN / CLOSE
Connections:	Plug-in terminals 1 mm <sup>2</sup> (rigid wire), Drives: 2,5 mm <sup>2</sup> ,
	socket and plug with cable for internal BUS
Built-in fuse:	5AT 5x20 mm
bailt in rase.	SA SAZO MIN
	Output voltage: Internal consumption: Output current: Housing (WxHxD): Module units: Inputs: Outputs: Display: Control elements:

Features: Fixing on 35-mm mounting rail. Configuration of the functional and performance features, which deviates from the standard systems via configuration software EMB 8000+.

		···· · · · · · · · · · · · · · · · · ·		
VERSIONS				
PartNo.				
688280	Delivery in parcel	for customer self-installation		
688280-9	Module factory fitted	factory fitted and fully wired		

-

### ORDER DATA

DMX – Drive	e-Module						
Application:	For the controlling of dr	ives, gas-pres	sure generators and magr	netic locks.			
		TECHNICA Operating Output vol- Internal con Output cur Housing (M Module un Inputs: Outputs: Display: Control ele Connection	tage: nsumption: rent: /xHxD): its: ments:	24 V DC 24 V DC (20 – 28 V DC 5,3 mA <b>20 A</b> 100 x 120 x 45 mm, AE 2 ME Vent. buttons (max. 10 Drive line (gas-pressure Power, fault, alarm, run Front push button: OPE Plug-in terminals 1 mm Blade terminals 6,3 mm socket and plug with ca	35, black pcs), feedbac generators / i ning directior N / CLOSE <sup>2</sup> (rigid wire), i: Drives + por	magnetic lo n OPEN / CL wer supply,	cks)
		Features: Note:	Configuration of the fu the standard systems via Drive output for blade t Putchased parts packag	xing on 35-mm mounting nctional and performance a configuration software f erminals 6,3 mm! e: 3 wires 2,5 mm <sup>2</sup> , 400 o be ordered separately! (	features, wh EMB 8000+. mm length w		
VERSIONS	S						
PartNo.							
688255	Delivery in parcel	for custom	er self-installation				
688255-9	Module factory fitted	factory fitte	ed and fully wired				

### IDM - Intelligent-Drive-Module

Application: For operating intelligent AumüLLER S12 / S3 drives up to max. 10 A total current.



TECHNICA Operating v Output volt Internal cor Output cur Housing (W Module uni Inputs: Outputs: Display: Control ele Connectior	rage: nsumption: rent: /xHxD): ts: ments:	24 V DC 24 V DC (20 – 28 V DC / 0,5 Vpp) 6 mA 10 A 100 x 120 x 22,5 mm, ABS, black 1 ME Vent. buttons (max. 10 pcs), feedback contact OPEN/CLOSE 0 - 10 V analog input Drive line (Aumüller S12 / S3) Power, fault, alarm, running direction OPEN / CLOSE Front push button: OPEN / CLOSE Plug-in terminals 1 mm <sup>2</sup> (rigid wire), Drives: 2,5 mm <sup>2</sup> , Blade terminals 6,3 mm: Power supply, socket and plug with cable for internal BUS 0-10 V analog input
Configuration of the f		xing on 35-mm mounting rail. nctional and performance features, which deviates from a configuration software EMB 8000+.

VERSIONS				
PartNo.				
688257	Delivery in parcel	for customer self-installation		
688257-9	Module factory fitted	factory fitted and fully wired		

### ORDER DATA

SM – Sensor-Module Application: For the connecting	of automatic smoke detectors and b	preak-glass units.
	TECHNICAL DATA (Rated v Operating voltage: Detector line voltage: Internal consumption: Housing (WxHxD): Module units: Inputs: Outputs: Display: Control elements: Connections:	alues) 24 V DC 24 V DC 12,6 mA 100 x 120 x 22,5 mm, ABS, black 1 ME 3 detector lines (max 10 detectors/line) Ventialtion buttons (max. 10 pcs.) 1 feedback contact (change-over switch, 42 V / 0,5 A) Power, fault, alarm Front push button: Reset Plug-in terminals 1 mm <sup>2</sup> (rigid wire), socket and plug with cable for internal BUS
-45-1-	Configuration o	ector lines, fixing on 35-mm mounting rail. f the functional and performance features, which deviates from tems via configuration software EMB 8000+.
VERSIONS		
PartNo.		

PartNo.				
688150	Delivery in parcel	for customer self-installation		
688150-9	Module factory fitted	factory fitted and fully wired		

#### RM6 – Relay-Module

**Application:** For the transmitting of signals via volt free relay contacts.



# TECHNICAL DATA (Rated values)

Operating voltage: Internal consumption: Housing (WxHxD):

Module units: Outputs: Display: Connections: 24 V DC 5,3 mA

100 x 120 x 22,5 mm, ABS, black 1 ME 6 volt free relay contacts (change-over switch, 42 V / 0,5 A) Operating, Fault Plug-in terminals 1mm<sup>2</sup> (rigid wire), socket and plug with cable for internal BUS

 Features:
 Fixing on 35-mm mounting rail.

 Configuration of the functional and performance features, which deviates from

the standard systems via configuration software EMB 8000+.

VERSIONS				
PartNo.				
688200	Delivery in parcel	for customer self-installation		
688200-9	Module factory fitted	factory fitted and fully wired		

### ORDER DATA

IM-K – KNX-							
Application:	For communication betv		<b>L DATA (Rated values)</b> voltage: nsumption:	000+ and the KNX-BUS-Sy 24 V DC 6 mA 9 mA	rstem.		
		Data points Housing (W Module uni Inputs: Outputs: Display: Control ele Connection	/xHxD): its: ments:	up to 16 lines with up t 100 x 120 x 22,5 mm, <i>A</i> 1 ME 6 analog inputs KNX sic <b>KNX-BUS terminal</b> 3 x potential free Relay Operation, fault, KNX-p KNX-programming butt Plug-in terminals 1mm <sup>2</sup> socket and plug with ca	ABS, black led, contacts via l brogramming ton (rigid wire),	KNX LED	
		Features:		unctional and performance ia configuration software E		ich deviates	from
VERSIONS	5						
PartNo.							
688265	Delivery in parcel	for custome	er self-installation				
688265-9	Module factory fitted	factory fitte	ed and fully wired				

WM – Weathe	r-Module						
Application:	For the connecting of w	eather sensors	5.				
		TECHNICA Operating V Detector lin Internal cor Housing (W Module uni Inputs: Outputs: Display: Connection	e voltage: nsumption: /xHxD): ts:	24 V DC 24 V DC 13,0 mA 100 x 120 x 22,5 mm, A 1 ME Wind- and rain sensors, external signals Volt free contact (chang Power, fault, wind / rain Plug-in terminals 1,5 mm	wind directic ge-over switch activ	i, 42 V / 0,5	; А)
	•	Features:		ting rail. nctional and performance a configuration software E		ich deviates	from
VERSIONS							
PartNo.							
688180	Delivery in parcel	for custome	er self-installation				

Module factory fitted factory fitted and fully wired

688180-9

### **ORDER DATA**

			PartNo.			
Control-Modu	ile CM		688120			
Application:		self-installation into the SHEV Control Unglass units. Monitors three fire alarm lines n ventilation buttons.		0	tomatic smo	oke
1		<b>TECHNICAL DATA (Rated values)</b> Operating voltage: Detector line voltage: Internal consumption:	24 V DC 24 V DC 34,1 mA			
		Housing (WxHxD): Module units: Inputs:	<b>100 x 120 x 22,5 mm</b> , A 1 ME 3 Detector lines (max. 1 1 BUS-detector lines (m 1 Ethernet port 1 CAN interface Ventialtion push button	0 detectors / ax. 30 detecto	ors)	
		Outputs: Display: Control elements:	1 Feedback contact (1x Power, fault, alarm Front push button: Rese Plug-in terminals 1 mm <sup>2</sup> socket and plug with ca	et 2 (rigid wire),		/ / 0,5 A)

#### Feature/Equipment

- Fixing on 35-mm mounting rail.
- Parameterization of functional and performance features that differ from the standard via configuration software EMB 8000+.
- Belongs to the basic equipment of a Control Unit and must be connected directly with the Power-Module PM via BUS cable.

Power-Modul	le PM			688050		
Application:	Monitors the main	ner self-installation into the SHEV Cont n power supply. Checks the accumulato up accumulator operation during powe	or charging voltage	5	the main power :	supply.
		TECHNICAL DATA (Rated val Operating voltage: Internal consumption:	<b>ues)</b> 24 V DC 16,0 mA			
and a second		Housing (WxHxD):	100 x 120 x	<b>45 mm</b> , ABS, black		



Operating voltage: Internal consumption: Housing (WxHxD): Module units: Display: Connections:

16,0 mA **100 x 120 x 45 mm**, ABS, black 2 ME Power, fault, status Plug-in terminals 1 mm<sup>2</sup> (rigid wire), Socket and plug with cable for internal BUS

### Feature/Equipment

- Fixing on 35-mm mounting rail.
- Parameterization of functional and performance features that differ from the standard via configuration software EMB 8000+.
- Has a connection for a sensor "temperature-dependent charging of back-up accumulators".

### **ORDER DATA**

688100         Application:       Module for customer supply for more than one switching power supply. Switches to back-up accumulator operation during power failure.         VECHNICAL DATA (Rated values)         Switches to back-up accumulator operation during power failure.       24 V DC         Internal consumption:       0 mA         Housing (WxHxD):       100 x 120 x 45 mm, ABS, black         Display:       Power, status         Connections:       Socket and plug with cable for internal BUS				PartNo.	
Monitors the main power supply for more than one switching power supply. Switches to back-up accumulator operation during power failure. <b>TECHNICAL DATA (Rated values)</b> Operating voltage:       24 V DC         Internal consumption:       0 mA         Housing (WxHxD):       100 x 120 x 45 mm, ABS, black         Module units:       2 ME         Display:       Power, status	Power-Modul	e PME		688100	
Operating voltage:     24 V DC       Internal consumption:     0 mA       Housing (WxHxD):     100 x 120 x 45 mm, ABS, black       Module units:     2 ME       Display:     Power, status	Application:	Monitors the main pow	ver supply for more than one switching	ng power supply.	ply.
Module units:     2 ME       Display:     Power, status			Operating voltage:	24 V DC	
			Module units: Display:	2 ME Power, status	

Feature/Equipment ■ Fixing on 35-mm mounting rail.

### **ORDER DATA**

TERMIN	ALS TO SEND			
PartNo.				
659941	Terminals-Set 5 x 2,5 mm <sup>2</sup>	for customer self-installation		
659942	Terminals-Set 5 x 6,0 mm <sup>2</sup>	for customer self-installation		
659943	Terminals-Set 5 x 10 mm <sup>2</sup>	for customer self-installation		
659944	Terminals-Set 5 x 16 mm <sup>2</sup>	for customer self-installation		

#### **TERMINALS TO BE INSTALLED FROM THE FACTORY** Part.-No. factory fitted and fully wired 659945-9 Single terminal **DS** 2,5 mm<sup>2</sup> 659946-9 Single terminal 6 mm<sup>2</sup> factory fitted and fully wired 659947-9 factory fitted and fully wired Single terminal 10 mm<sup>2</sup> 659948-9 Single terminal 16 mm<sup>2</sup> factory fitted and fully wired factory fitted and fully wired 669937-9 Terminals-Set ML 5 x 6 mm<sup>2</sup> 669938-9 Terminals-Set ML 5 x 10 mm<sup>2</sup> factory fitted and fully wired 669939-9 Terminals-Set ML 5 x 16 mm<sup>2</sup> factory fitted and fully wired 669949-9 Terminals-Set ML 230 V factory fitted and fully wired 5 x 4 mm<sup>2</sup> 669940-9 Terminals-Set HSE 2,5 mm<sup>2</sup> factory fitted and fully wired 669941-9 Terminals-Set RM 2,5 mm<sup>2</sup> factory fitted and fully wired 669942-9 Terminals-Set LT factory fitted and fully wired 2,5 mm<sup>2</sup> factory fitted and fully wired 669943-9 Terminals-Set LT with display 2,5 mm<sup>2</sup> 669944-9 Terminals-Set relays 2.5 mm<sup>2</sup> factory fitted and fully wired 669945-9 Terminals-Set blocking contact 2,5 mm<sup>2</sup> factory fitted and fully wired 669946-9 Terminals-Set BUS-HSE factory fitted and fully wired 2,5 mm<sup>2</sup> 669947-9 Terminals-Set WM 2,5 mm<sup>2</sup> factory fitted and fully wired 669948-9 Terminals-Set CAN 2,5 mm<sup>2</sup> factory fitted and fully wired

SERVICE				
PartNo.				
240	Plan creation	Wiring diagram per SHEV / ventilation group		
688930	Programming	Programming an EMB8000+ in the factory		
SL125	Online commissioning support	Price per hour		

# ORDER DATA

		PartNo.
Surge arres	ster Type 3	
Application		arrester Type 3 for Control Unit output 1-phase or 3-phase - with additional detector contact. 35; cross section of wire min. 1,5mm <sup>2</sup>
and the second s		TECHNICAL DATA (Rated values)Nominal voltage:230 V ACVersion:Type 3 / Class IIIFunction display:green / redAmbient temperature range:-40°C +80°CConnection cross-section:max. 4 mm²Protection rating:IP20
VERSION	IS	
PartNo.		
659977-9	1-phase	Module factory fitted - factory fitted and fully wired
659978-9	3-phase	Module factory fitted - factory fitted and fully wired
Automatic	circuit brea	aker

J	Automatic circ	uit breaker					
	Application:	Automatic circuit breaker In the versions 6 A or 16	r for interrupting the circuit in the eve A or 25 A.	ent of a short circuit or ove	rload.		
			TECHNICAL DATA (Rated values)	220 \/ AC / 400 \/ AC /	lananding on	the version	-)



Nominal voltage: Housing: Ambient temperature range: Connection cross-section:

Protection rating:

230 V AC / 400 V AC (depending on the versions) Insulation group II, RAL 7035 -25°C .... +55°C flexible with wire end ferrule 0,75 ... 25 mm<sup>2</sup> (depending on the versions) IP20

VERSION	IS			
PartNo.				
669970-9	B 6A 1-pole	Module factory fitted - factory fitted and fully wired		
669971-9	B16A 1-pole	Module factory fitted - factory fitted and fully wired		
669972-9	B25A 1-pole	Module factory fitted - factory fitted and fully wired		
669973-9	B16A 3-pole	Module factory fitted - factory fitted and fully wired		

### **ORDER DATA**

	PartNo.			
Software licence EMB8000+ Alpha				
Application: Software licence for configuration, integration in networks and maintenace of EMB 8000+.				

EMB 8000+	Virtuelle Zentrale
Zenrale	
Zentrale konfigurieren	CAN CAN Adressen
Werkseinstellung	lokale Adressen 📃 0 🛨
Formatieren	letzte Adresse
Backup einspielen	Mifi-Einstellungen ©
	S Wartung ©
	Firmware Update

TECHNICAL DATA System requirements: Microsoft® Windows 10 - 64 Bit

Note Aumüller grants licences only after attending a product training			
SOFTWARE / LICENSE / PROGRAMMING			
Licence for 1 month	688911		
Licence for 3 years	688913		

### **ORDER DATA**

			PartNo.			
Accumulators						
Application: Ma	aintenance of stand	dby operation of SHEV control units	over a period of 72 hours of main	power supply	loss.	
		<b>TECHNICAL DATA</b> Type: Output voltage: Capacity: Lifetime: Connections: Housing:	Lead storage battery 12 V DC see order data 4 years (normal conditio 7 – 12 Ah: blade termir 17 – 38 Ah: screw term plastic, impact- and bre	nals 4,8 mm inals M5		
Disposal due t	free operation, lon to local, national or	g lasting durability, hight charging p r international rules (WEEE) ired per control unit!	performance and long-cycle stability	у		
<ul><li>Maintenance f</li><li>Disposal due to</li></ul>	free operation, lon to local, national or	r international rules (WEEE)	performance and long-cycle stability	у		
Maintenance f Disposal due t NOTE: Always 2	free operation, lon to local, national or	r international rules (WEEE) ired per control unit!	performance and long-cycle stabilit	y		
Maintenance f Disposal due t NOTE: Always 2 OPTIONS for control unit	free operation, lon to local, national or batteries are requi	r international rules (WEEE) ired per control unit!	performance and long-cycle stability 542000	y		
Maintenance f Disposal due t NOTE: Always 2 OPTIONS for control unit 7 Ah, 12 V	free operation, lon o local, national or batteries are requi	r international rules (WEEE) ired per control unit!		y		
Maintenance f Disposal due t NOTE: Always 2 OPTIONS for control unit 7 Ah, 12 V 12 Ah, 12 V	free operation, lon to local, national of batteries are requi ts with backup po 1 Pcs.	r international rules (WEEE) ired per control unit!	542000	y		
Maintenance f Disposal due t NOTE: Always 2	free operation, lon to local, national of batteries are requi ts with backup po 1 Pcs. 1 Pcs.	r international rules (WEEE) ired per control unit!	542000 542200	y		

#### **Relay interface**

Application: Relay for the connection of 230 V AC drives to a 24 V DC drive line, triggering by pole change of 24 V DC drive line.



#### **TECHNICAL DATA (Rated values)**

Operating voltage: Standby consumption: Switching capacity: Drive type: Ambient temperature range: Housing: Dimensions (WxHxD): Connections: Protection rating: 24 V DC, +/-20% (max. 2 Vpp) <100 mA 230 V AC / 3 A S2, S3, S12, MP 0 ... +70 °C Surface mounting, plastic, white 98 x 98 x 58 mm Screw terminals 4,0 mm<sup>2</sup> (rigid wire) IP54

#### Feature/Equipment

Connection to the **drive line** of SHEV or natural ventilation control units

VERSIONS				
PartNo.				
670071	Delivery in parcel	for customer self-installation		
670075-9	Module factory fitted	factory fitted and fully wired. Including 5 terminals 4,0 $\mbox{mm}^2$		

ACCESSORI	ES			
PartNo.		VE		
500001	Wall fixing brackets IP54	4 piece		

### ORDER DATA

	PartNo.
Time switch	659927-9
Application: For the time controlled opening / closing of ventilation li	ines, with 30 day- and week-programm steps.
TECHNICAL DATA (Rated va Operating voltage: Contact type: Switching capacity: Housing: Dimensions (WxHxD): Connections: Protection rating:	alues) 230 V AC change-over switch 230 V AC / 16 A plastic, white, for 35 mm top rail 17,6 x 63 x 90 mm Screw terminal 1,5 mm <sup>2</sup> (rigid wire) IP20
<ul> <li>Feature/Equipment</li> <li>Connection to the ventilation input of SHEV or natural ventilation Co</li> <li>Module factory fitted / factory fitted and fully wired</li> </ul>	ontrol Units

**Temperature sensor** Temperature sensor PM - conductor with connection piece for the Control Unit EMB 8000+ **Application: TECHNICAL DATA (Rated values)** Hardware: REV.1 Bootloader: BL V0.0.10 Application: V0.0.17 Cable: 0,09mm<sup>2</sup> - AWG28; RM1,27 Certification: CE 175 Feature/Equipment Conductor with connection piece VERSIONS for SHEV Control Units of emergency power supply Part.-No. PM 0,4 m 680055 1 piece

For this product series, a Type III Environmental Product Declaration (EPD) was issued according to ISO 14025 and EN 15804.

The LCA results of the different product types are listed at the end of this product catalogue.

PM 0,9 m

1 piece

The EPD documents can be viewed or downloaded from our homepage www.aumueller-gmbh.de.

680056