

wöhner

# MANUAL 2020





# INNOVATION IS OUR POWER.

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Wöhner develops system solutions  
for the electro-technical market.

For over 90 years, the Wöhner name has been synonymous with impressive technical achievements and innovations. Today, the Wöhner Group is established worldwide as a specialist for international fuse and busbar systems in the field of power distribution, control technology and renewable energies. Innovations, short response times and the best possible customer service are the factors which enable us to compete in the international market. To help us meet these challenges, we are investing worldwide and continuously searching for skilled employees.



Wöhner offers in excess of 2400 different products.  
The naming structure consists of a combination of basic system  
and product family names. The individual products  
can be used for one or more systems.

## BASIC SYSTEMS



**CrossBoard®**



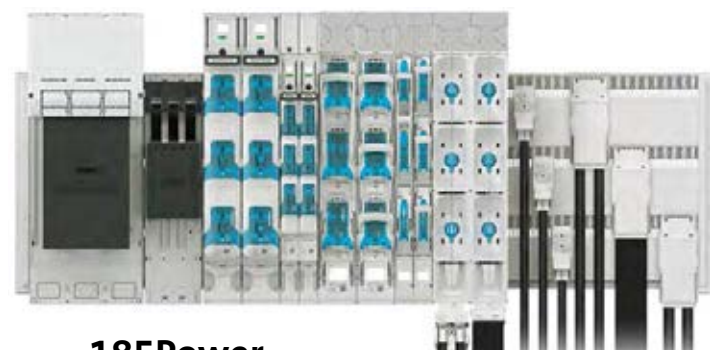
**Panel**



**30Compact**



**60Classic**



**185Power**

## PRODUCT FAMILY



**AMBUS®**  
Busbar mounted fuse-holder



**BROOME10®**  
Power supply unit



**CAPUS®**  
Switch-disconnector



**CRITO®**  
Connection terminal plate



**EQUES®**  
Busbar adapter



**MOTUS®**  
Hybrid motor starter



**OMUS®**  
Hybrid switch



**QUADRON®**  
Class J fuse-holder



**SECUR®**  
D0 switch-disconnector  
with fuses

## Order hotline

# +1 603 433-2121

Would you like to order our products? You can reach us by phone or e-mail: [orders@woehner.com](mailto:orders@woehner.com)

## Technical hotline

# +1 603 766-9875

Questions about technology, worldwide use, UL products? We look forward to your call or message: [qcq@woehner.com](mailto:qcq@woehner.com)

## Quick CAD Quote (QCQ) Design Assistance

# www.woehnerqcq.com

Woehner LLC provides free design assistance we call Quick CAD Quote (QCQ). Contact our technical hotline **+1 603 766-9875** or see us online at our website.

# PRETTY SMART! OUR CONFIGURATOR.



### Configurator

- + 3D planning tool with realistic appearance
- + Guidance by technical parameters
- + Technical documentation

### Try out our configurator

<https://qrco.de/configurator-en>

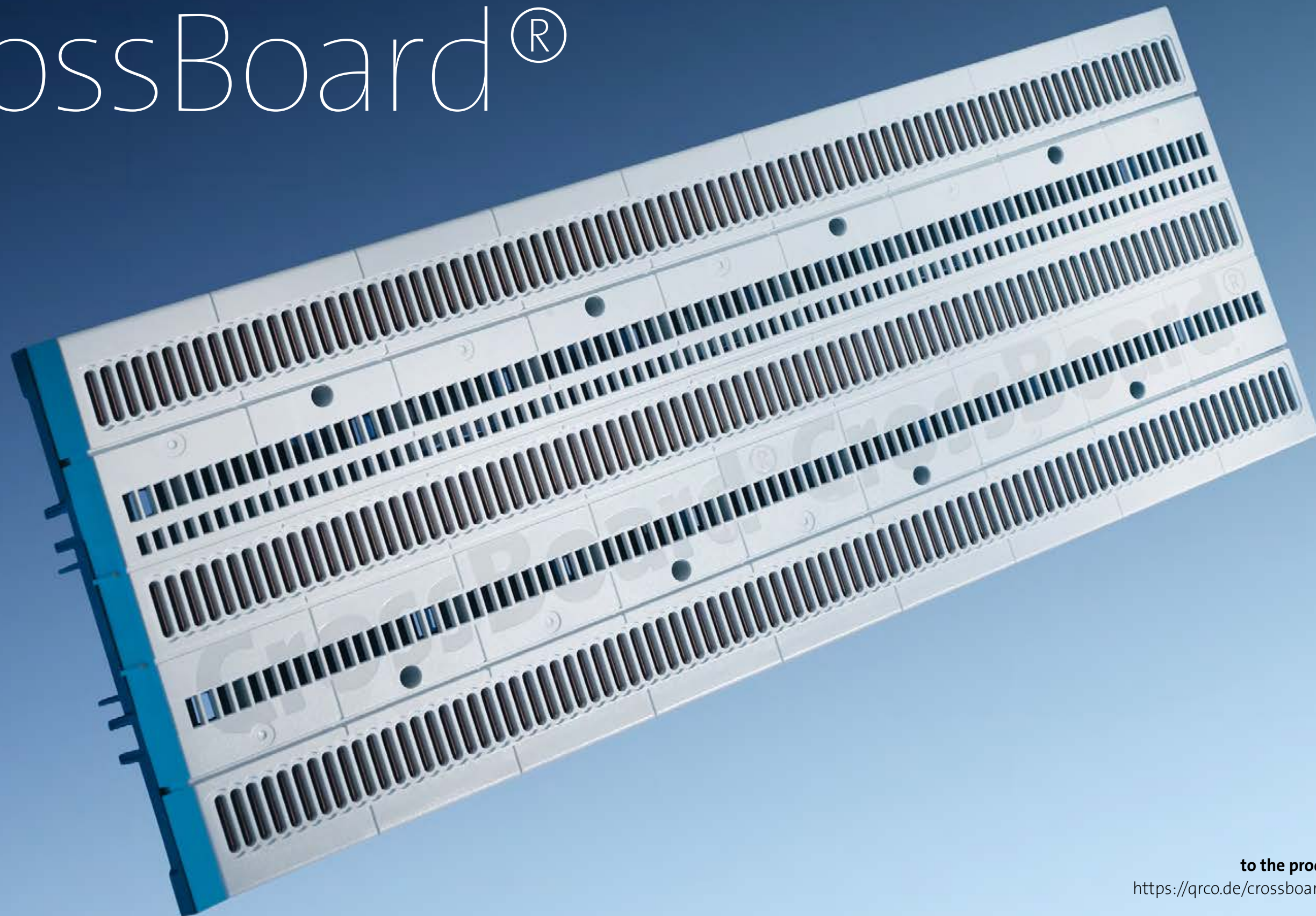
### Augmented Reality

- + Presentation of a virtual control cabinet in a real room
- + Import of projects planned by yourself in the configurator is possible

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New product

# CrossBoard®



to the product:  
<https://qrco.de/crossboard-en>



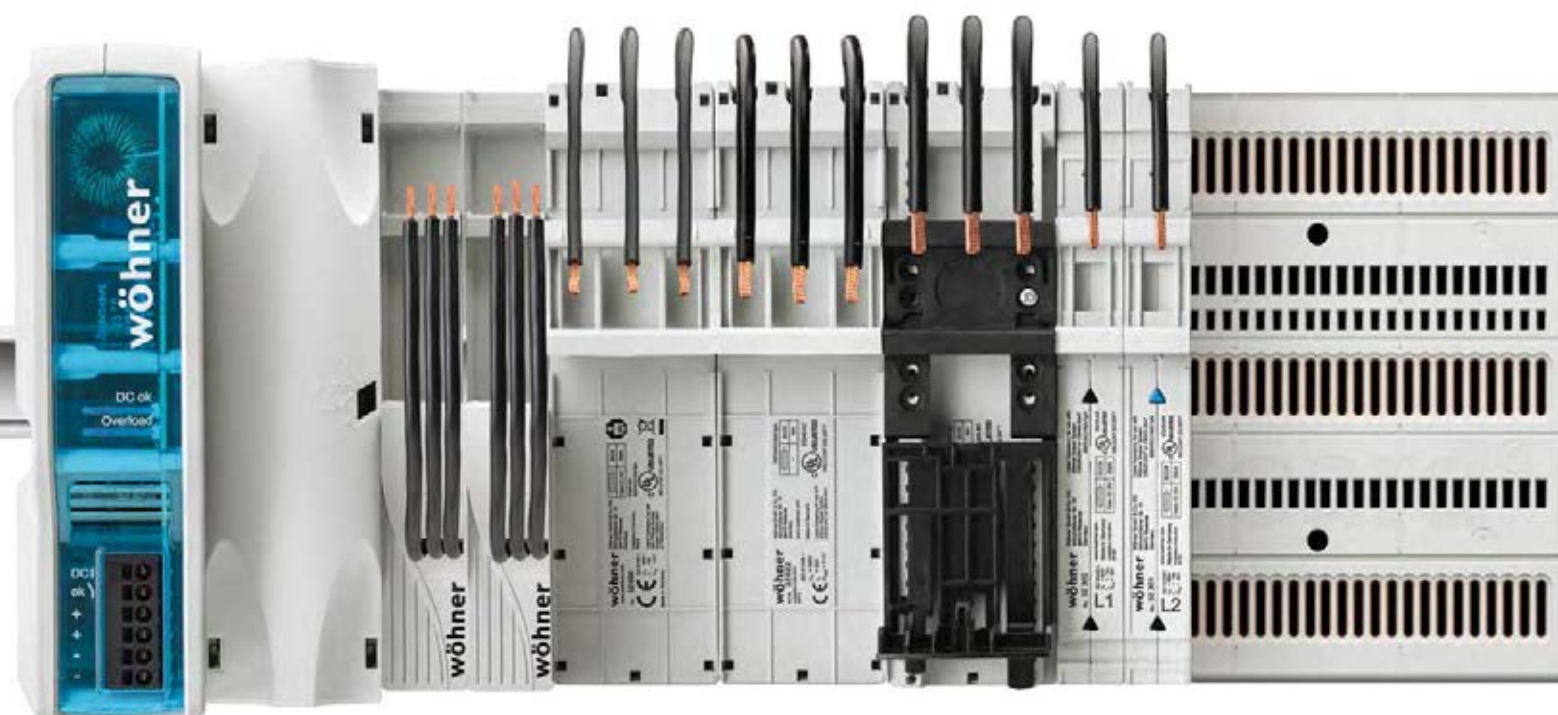
POWER DISTRIBUTION SYSTEM

# CrossBoard®

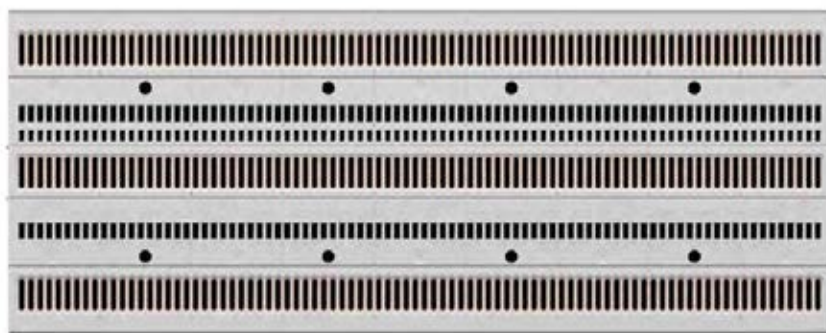
## CrossBoard® – the global basic system

Tool-free mounting combined with outstanding safety thanks to integrated touch-safe protection makes CrossBoard® by Wöhner the ideal system solution for power distribution equipment up to 100 A. The user can quickly and easily snap components onto the global basic system. The feeding of the system can be achieved via connection modules or the NH fuse-switch-disconnector size 000. CrossBoard® is suitable mainly for applications in machine tool and plant engineering.

The modular structure ensures that the systems are clearly structured and, when necessary, easy to change or expand. Motors of up to 4 kW can be supplied directly from the CrossBoard® using the MOTUS® hybrid motor starter. The OMUS® hybrid switch is available for resistive loads with its low power dissipation and high life expectancy thanks to hybrid switch technology. The power supply for supplying the devices with control voltage can be integrated directly on the CrossBoard®.







### CrossBoard®

- Basic system - connection and mounting platform for all components.
- rated current 100 A
  - equipment width: 225 or 405 mm
  - height 160 mm
  - rated voltage:
    - 690 V AC / 600 V DC (IEC)
    - 600 V AC / 600 V DC (UL)
  - UL listed



### CRITO® CrossBoard

- Connection modules for CrossBoard®. Particularly simple, safe and convenient mounting.
- rated current: 48 A or 100 A
  - equipment width: 22.5 or 45 mm
  - connection range: AWG 14 - 6 or AWG 10 - 1
  - equipment width 22.5 mm with SnapLock technology for tool-free mounting of cables with CRITO® 22.5 mm
  - UL listed



### EQUES® CrossBoard

- The EQUES® universal adapter can be used to mount measuring and monitoring relays.
- rated current 16 A
  - equipment width 22.5 mm
  - connection leads AWG 14
  - for 1- to 3-pole devices
  - fuse compartment for 10x38 Class CC fuses up to max. 16 A
  - UL listed



### EQUES® CrossBoard

- Adapter of 18 mm width, suitable for mounting miniature circuit breakers from various manufacturers.
- rated current: 16 A or 63 A
  - equipment width 18 mm
  - 1 fixed mounting rail
  - connection leads: AWG 14 or 8
  - can be combined into 1- to 4-pole adapters via accessories
  - UL listed



### EQUES® CrossBoard

- Adapter for mounting motor protection devices with a fixed DIN rail.
- rated current up to 30 A
  - equipment width 45 mm
  - connection leads: AWG 14 or 10
  - UL listed



### EQUES® CrossBoard

- The EQUES®CrossBoard adapters are available for simple mounting of motor starter combinations from various manufacturers.
- rated current up to 45 A
  - equipment width 45 mm
  - adjustable mounting rail
  - connection leads: AWG 14, 12, 10 or 8
  - accessories for mounting of contactors
  - UL listed



### EQUES® CrossBoard

- Adapter, 90 mm wide, to accept circuit breakers of different manufacturers.
- rated current 125 A
  - equipment width 90 mm
  - fixing adjustable to the circuit breaker
  - tool-free mounting of the adapter
  - UL listed



### OMUS® CrossBoard

- Hybrid switch for switching resistive loads. The hybrid switch technology minimises power dissipation.
- continuous current up to 20 A
  - equipment width 36 mm
  - 4 integrated functions: energy supply, fuse protection, monitoring and switching
  - 3-pole or 1-pole switching
  - UL listed



### MOTUS® CrossBoard

- Hybrid motor starter with integrated functions: direct and reversing starter, overload protection and emergency stop function. Significantly reduced space requirements and wiring costs.
- 3 design versions: up to 0.6 A, up to 2.4 A and up to 9 A
  - equipment width 22.5 mm
  - hybrid switch technology
  - up to 30 mil. switching cycles
  - versions with IO-Link interface
  - UL listed



### BROOME10® CrossBoard

- Power supply for direct connection on the CrossBoard®.
- rated voltage 24 V DC
  - nominal output current 10 A
  - equipment width 45 mm
  - no back-up fuse required
  - series and parallel connection to expand the current and voltage range
  - UL listed

## CrossBoard® - CRITO® - QUADRON® - BROOME10®

3-pole



### CrossBoard® basic system, touch-safe protected with CrossLink® interface

Type	Rated current	Width	Height	Pack size	Weight kg/100 u.	PG	Part No.
CrossBoard®225	100 A	225	160	1	79.8	06	11225
CrossBoard®405		405		1	137.2	06	11405



### CRITO®CrossBoard connection module, 3-pole, with SnapLock connection technology, cover cap and CrossLink® interface

Type	Rated current	Width	Height	Pack size	Weight kg/100 u.	PG	Part No.
with integrated spring terminals 1.5 - 16 mm <sup>2</sup> , AWG 14 - 6	48 A	22.5	160	1	21.5	07	01592
with box terminals 6 - 50 mm <sup>2</sup> / AWG 10 - AWG 1	100 A	45	160	1	25.0	07	01593



### BROOME10®CrossBoard power supply, with CrossLink® interface

Type	Nominal output current	Width	Height	Pack size	Weight kg/100 u.	PG	Part No.
24 V DC, with push-in terminals	10 A	45	160	1	71.8	21	36200

parallel connection for increased current and series connection for increased voltage possible

## MOTUS®CrossBoard - OMUS®CrossBoard

hybrid switches for switching of inductive and resistive loads



### MOTUS®CrossBoard hybrid motor starter, 3-pole, with reversing function and CrossLink® interface

Type	Width	Height	Pack size	Weight kg/100 u.	PG	Part No.
electronic unit 0.075 - 0.6 A direct and reversing starter	22.5	160	1	50.9	21	36109
electronic unit 0.18 - 2.4 A direct and reversing starter			1	50.7	21	36110
electronic unit 1.5 - 6.5 A direct and reversing starter			1	51.4	21	36111

### MOTUS®CrossBoard hybrid motor starter IO-Link, 3-pole, with reversing function, CrossLink® interface and communication interface

Type	Width	Height	Pack size	Weight kg/100 u.	PG	Part No.
electronic unit IO-Link 0.18 - 3 A direct and reversing starter	22.5	160	1	51.4	21	36130
electronic unit IO-Link 1.5 - 6.5 A direct and reversing starter			1	51.4	21	36131

### Replacement fuse, for MOTUS®CrossBoard

Type	Pack size	Weight kg/100 u.	PG	Part No.
fuse 16 A for version 0.6 A and 2.4 A	3	2.8	21	31567
fuse 20 A for version 6.5 A	3	2.8	21	31568
fuse 30 A for version 6.5 A for motors with heavy-duty starting	3	2.8	21	31569



### OMUS®CrossBoard hybrid switch, 3- or 1-pole switchable, for resistive loads, with CrossLink® interface

Type	Width	Height	Pack size	Weight kg/100 u.	PG	Part No.
electronic unit, 20 A (UL)	36	160	1	55.2	21	36159

supplied with both load and control plug

### Replacement component, for OMUS®CrossBoard

Type	Pack size	Weight kg/100 u.	PG	Part No.
3-pole load plug with spring terminals	1	1.5	21	36916
3-pole load plug with screw terminals	1	1.4	21	36918
12-pole control plug with spring terminals	1	0.6	21	36917

### Replacement fuse, for OMUS®CrossBoard

Type	Pack size	Weight kg/100 u.	PG	Part No.
cylindr. fuse link 30 A, time delay	10	0.8	22	31252

## EQUES®CrossBoard - Adapters 16 A - 63 A

1-pole, 3-pole



### EQUES®CrossBoard adapter and component support, 1-pole, for MCBs, with CrossLink® interface

Type	Rated current	Width	Height	Pack size	Weight kg/100 u.	PG	Part No.
phase L1, 1 fixed mounting rail, with leads AWG 14 (2.5 mm <sup>2</sup> )	16 A	18	160	6	6.0	05	32300
phase L2, 1 fixed mounting rail, with leads AWG 14 (2.5 mm <sup>2</sup> )	16 A			6	6.0	05	32301
phase L3, 1 fixed mounting rail, with leads AWG 14 (2.5 mm <sup>2</sup> )	16 A			6	6.0	05	32302
phase L1, 1 fixed mounting rail, with leads AWG 8 (10 mm <sup>2</sup> )	63 A			6	6.6	05	32307
phase L2, 1 fixed mounting rail, with leads AWG 8 (10 mm <sup>2</sup> )	63 A			6	6.6	05	32308
phase L3, 1 fixed mounting rail, with leads AWG 8 (10 mm <sup>2</sup> )	63 A			6	6.6	05	32309
without electrical connection, 1 fixed mounting rail				6	3.3	05	32311



### EQUES®CrossBoard adapter with fuse-carrier, with leads AWG 14 (2.5 mm<sup>2</sup>), with CrossLink® Interface

Type	Rated current	Width	Height	Pack size	Weight kg/100 u.	PG	Part No.
1 fixed mounting rail, with fuse-carrier 10x38 / Class CC	12.5 A	22.5	160	1	12.9	05	36009



### EQUES®CrossBoard adapter, basic version, with CrossLink® interface

Type	Rated current	Width	Height	Pack size	Weight kg/100 u.	PG	Part No.
1 fixed mounting rail, with leads AWG 14 (2.5 mm <sup>2</sup> )	16 A	45	160	1	12.4	05	32666
1 fixed mounting rail, with leads AWG 10 (6 mm <sup>2</sup> )	32 A			1	14.0	05	32682

## EQUES®CrossBoard - Adapters 12 A - 125 A

1-pole, 3-pole



### EQUES®CrossBoard adapter and component support, comfort version, with CrossLink® interface

Type	Rated current	Width	Height	Pack size	Weight kg/100 u.	PG	Part No.
1 adjustable mounting rail, with leads AWG 14 (2.5 mm <sup>2</sup> )	16 A	45	160	1	14.0	05	32668
1 adjustable mounting rail, with leads AWG 14 (2.5 mm <sup>2</sup> ) 160 mm long, for devices with spring terminal technology	16 A			1	10.6	05	32669
2 adjustable mounting rails, with double-leads 2x AWG 12 (2x 4 mm <sup>2</sup> ) 101 / 258 mm long	25 A			1	14.0	05	32677
1 adjustable mounting rail, with leads AWG 12 (4 mm <sup>2</sup> )	25 A			1	14.5	05	32676
1 adjustable mounting rail, with leads AWG 10 (6 mm <sup>2</sup> )	32 A			1	15.6	05	32684
1 adjustable mounting rail, with leads AWG 10 (6 mm <sup>2</sup> ) 160 mm long, for devices with spring terminal technology	32 A			1	12.4	05	32686
1 adjustable mounting rail, with leads AWG 8 (10 mm <sup>2</sup> )	45 A			1	18.0	05	32692
without electrical connection, 1 adjustable mounting rail				9	9.0	05	32665

### Extension component, for adapter comfort version

Article	Type	Width	Pack size	Weight kg/100 u.	PG	Part No.
extension module for direct starters	40 mm extension	45	8	2.2	05	32933
extension set for reversing starters		90	4	7.3	05	32934

### Accessories, for adapter comfort version

mounting rail 45 mm	10	1.4	05	32947
positioning piece for Siemens S00 and S0	10	1.7	05	32952
positioning piece for Eaton PKZ	10	1.2	05	32979



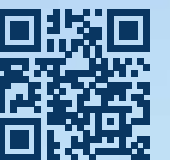
### EQUES®CrossBoard adapter, with CrossLink® interface

Type	Rated current	Width	Height	Pack size	Weight kg/100 u.	PG	Part No.
ABB Tmax XT1, Allen-Bradley 140G-G, Siemens 3VA10, 3VA11, 3VA51	160 A	90	160	1	40.0	05	32690
ABB Tmax XT2, Allen-Bradley 140G-H, Eaton NZM1	160 A			1	40.0	05	32691

# 30Compact



to the product:  
<https://qrco.de/30compact-en>



30 MM / 60 MM BUSBAR SYSTEM

# 30Compact

Compact busbar system for control technology  
and power distribution equipment up to 300 A

The 30Compact busbar system is the ideal solution for distribution boards with a rated current up to 300 A. The installation height of just 160 mm allows a particularly compact system to be realised. The 30Compact busbar system offers a clear space advantage compared to the

60Classic busbar system. Especially with smaller systems and their lower power requirements, valuable space can be saved within the cabinet. For such applications the 30Compact is the ideal system.



## Busbars 30Compact

- 12 x 5 mm for 3- and 5-pole applications
- 12 x 10 mm for 3-pole applications
- tin-plated versions
- proven load current capacity
- proven short-circuit capacity
- UL listed

## Busbar support 30Compact

- Busbar support for easy and safe installation. 3-pole with 60 mm distance between busbar centers, also for UL-compliant applications.
- 3-pole busbar support
  - for 12 x 5 and 12 x 10 mm busbars
  - with end cover
  - UL listed, in connection with 3-pole installation

## CRITO® 30Compact

- Connection module with spring terminals for 30Compact allows especially simple, safe and convenient mounting.
- rated current max. 48 A
  - equipment width 20 mm
  - connection range AWG 16 - 6
  - spring-loaded technology for quick conductor connection
  - UL listed

## CRITO® 30Compact

- Connection terminal plates. Convenient terminals for drill-less connection technology. Integrated touch-safe protection, complies with air and creepage distances as per UL.
- rated current up to 285 A
  - equipment width: 54 or 90 mm
  - connection range AWG 2 - 300 MCM
  - lam. Cu bars
  - UL listed

## BROOME10® 30Compact

- Power supply for direct connection, including adapter with CrossLink® Technology.
- rated voltage 24 V DC
  - nominal output current 10 A
  - equipment width 45 mm
  - no back-up fuse required
  - series and parallel connection to expand the current and voltage range
  - UL listed

## EQUES® 30Compact

- The EQUES®30Compact busbar adapters are available for easy mounting of motor starter combinations from various manufacturers.
- rated current: up to 65 A
  - equipment width: 45 or 54 mm
  - adjustable mounting rail
  - connection leads: AWG 10 or 8
  - side-mounted module, 9 mm wide
  - UL listed

## MOTUS® 30Compact

- Hybrid motor starter with integrated functions: direct and reversing starter, overload protection and emergency stop function. Significantly reduced space requirements and wiring costs.
- 3 design versions: 0.6 A, 2.4 A and 9 A
  - equipment width 22.5 mm
  - hybrid switch technology
  - up to 30 mil. switching cycles
  - versions with IO-Link interface
  - UL listed

## OMUS® 30Compact

- Hybrid switch for switching resistive loads. The hybrid switch technology minimises power dissipation.
- continuous current up to 20 A
  - equipment width 36 mm
  - 4 integrated functions: energy supply, fuse protection, monitoring and switching
  - 3-pole or 1-pole switching
  - UL listed

## 30Compact - Busbar systems

3-pole systems, system height 160 mm



### Busbar support, with end cover

For busbar	Pack size	Weight kg/100 u.	PG	Part No.
for busbar 3-pole 12 x 5 and 12 x 10	10	6.8	06	01272

### UL spacer

Type	Pack size	Weight kg/100 u.	PG	Part No.
suitable for 01272	10	5.2	06	01374



### BROOME10®30Compact power supply, with CrossLink®Technology

Type	Nominal output current	Width	Height	Pack size	Weight kg/100 u.	PG	Part No.
24 V DC, with push-in terminals	10 A	45	160	1	71.8	21	36201

parallel connection for increased current and series connection for increased voltage possible



### Copper busbar, flat busbar, tin-plated

Type	Length	Rated current	Pack size	Weight kg/100 u.	PG	Part No.
12 x 5	2400	150 A	1	128.4	06	01618
12 x 10	2400	300 A	1	257.0	06	01623

partial lengths on request

### Cover section, for 3-pole busbar systems

0.70 m long	2	42.0	06	01314
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### Mount for cover section, for 3-pole busbar systems

for 01314	10	1.8	06	01317
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### Busbar cover

for 12 x 5 busbar, 1 m long	10	3.2	06	78463
for 12 - 30 x 5 busbar, 1 m long	10	8.7	06	01244
for 12 - 30 x 10 busbar, 1 m long	10	10.1	06	01245

## CRITO®30Compact - Connection technology

1-pole and 3-pole, system height 160 mm



### Universal connection terminal, 1.5 - 120 mm², AWG 16 - 250 MCM

For busbar	Connection min. - max.	Terminal space W x H	Rated current	Pack size	Weight kg/100 u.	PG	Part No.
flat busbars 5 mm	1.5 - 16 mm², AWG 16 - 6	7 x 7	65 A	100	2.1	07	01284
	4 - 35 mm², AWG 10 - 2	10 x 11	115 A	50	4.6	07	01285
	16 - 70 mm², AWG 14 - 2/0	14 x 14	175 A	25	7.1	07	01287
	16 - 120 mm², AWG 4 - 250 MCM	17 x 15	255 A	25	10.6	07	01068
flat busbars 10 mm	1.5 - 16 mm², AWG 16 - 6	7 x 7	65 A	100	2.3	07	01289
	4 - 35 mm², AWG 10 - 2	10 x 11	115 A	50	4.7	07	01290
flat busbars 10 mm and section busbars	16 - 70 mm², AWG 14 - 2/0	14 x 14	175 A	25	7.5	07	01292
	16 - 120 mm², AWG 4 - 250 MCM	17 x 15	255 A	25	10.9	07	01203

### Cover cap, for universal connection terminals

terminal cover, for 01284 and 01289	20	0.5	07	01093
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### Brace terminal, up to 150 mm² / 300 MCM, for round conductors

For busbar	Connection min. - max.	Terminal space W x H	Rated current	Pack size	Weight kg/100 u.	PG	Part No.
12, 15, 20 x 5, 10	* 35 - 150 mm², AWG 2 - 300 MCM, lam. Cu. 15 - 20 x 5 - 10	20 x 22	285 A	6	10.2	07	01135

\* when using aluminium conductors, observe the maintenance instructions (see chapter 8.2 - Appendix, subsection "Conductor connections")

### Connection module, 3-pole, with spring terminals, with cover cap

For busbar	Connection	Width	Rated current	Pack size	Weight kg/100 u.	PG	Part No.
12 x 5, 10	with integrated spring terminals 1.5 - 16 mm², AWG 14 - 6	20	48 A	6	16.0	07	01562

### Connection terminal plate, 3-pole, with cover cap

12 x 5, 10	6 - 50 mm², AWG 10 - 2/0, lam. Cu. 7 - 9 x 4 - 10	54	175 A	1	20.6	07	01401
12 x 5, 10	35 - 150 mm², AWG 2 - 300 MCM, lam. Cu. 15 - 20 x 5 - 10	90	285 A	1	57.5	07	01165

## EQUES®30Compact - MOTUS®30Compact - OMUS®30Compact

busbar adapters and hybrid switches for switching of inductive and resistive loads



### Busbar adapter with fuse carrier, 16 A, with removable top section, with leads AWG 14 (2.5 mm<sup>2</sup>)

Type	Width	Height	Pack size	Weight kg/100 u.	PG	Part No.
1 fixed mounting rail, with fuse-carrier 10x38 / Class CC	22.5	160	1	18.0	05	36001

### Busbar adapter, 32 A, with leads AWG 10 (6 mm<sup>2</sup>)

1 adjustable mounting rail	45	160	4	19.8	05	32590
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### Busbar adapter, 63 A, with leads AWG 8 (10 mm<sup>2</sup>)

1 adjustable mounting rail	54	160	4	21.8	05	32591
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### Side-mounted module, for busbar adapters 32 A to 63 A

for 32590 and 32591	9	160	10	2.0	05	32912
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### Hybrid motor starter, MOTUS®30Compact, 3-pole, with reversing function and CrossLink®Technology

0.075 - 0.6 A direct and reversing starter	22.5	160	1	55.3	21	36101
0.18 - 2.4 A direct and reversing starter	22.5	160	1	55.8	21	36104
1.5 - 6.5 A direct and reversing starter	22.5	160	1	55.9	21	36107

### Replacement component, for MOTUS®30Compact

electronic unit 0.075 - 0.6 A direct and reversing starter	1	50.9	21	36109
electronic unit 0.18 - 2.4 A direct and reversing starter	1	50.7	21	36110
electronic unit 1.5 - 6.5 A direct and reversing starter	1	51.4	21	36111
busbar adapter base with CrossLink® interface	1	9.3	05	36113
fuse 16 A for version 0.6 A and 2.4 A	3	2.8	21	31567
fuse 20 A for version 6.5 A	3	2.8	21	31568
fuse 30 A for version 6.5 A for motors with heavy-duty starting	3	2.8	21	31569

### Hybrid switch, OMUS®30Compact, 3- or 1-pole switchable, for resistive loads, with CrossLink®Technology

Type	Width	Height	Pack size	Weight kg/100 u.	PG	Part No.
20 A (UL)	36	160	1	45.2	21	36157

### Replacement component, for OMUS®30Compact

electronic unit, 20 A (UL)	1	55.2	21	36159
busbar adapter base with CrossLink® interface	1	10.6	05	36155
3-pole load plug with spring terminals	1	1.5	21	36916
3-pole load plug with screw terminals	1	1.4	21	36918
12-pole control plug with spring terminals	1	0.6	21	36917

### Replacement fuse-link, for OMUS®30Compact

cylindr. fuse link 30 A, time delay	10	0.8	22	31252
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# 60Classic



to the product:  
<https://qrco.de/60classic-en>



60 MM BUSBAR SYSTEM

# 60Classic

Busbar system with a large selection of components for international use

A busbar center distance of 60 mm is the standard in most low-voltage distribution applications today. Developed by Wöhner, this standard has been implemented in the 60Classic system and has become the most common busbar

system in many countries. 60Classic is space-saving and provides a huge selection of components, with a maximum rating up to 2500 A. Listed to UL 508, the system meets the requirements for use in the USA and Canada.



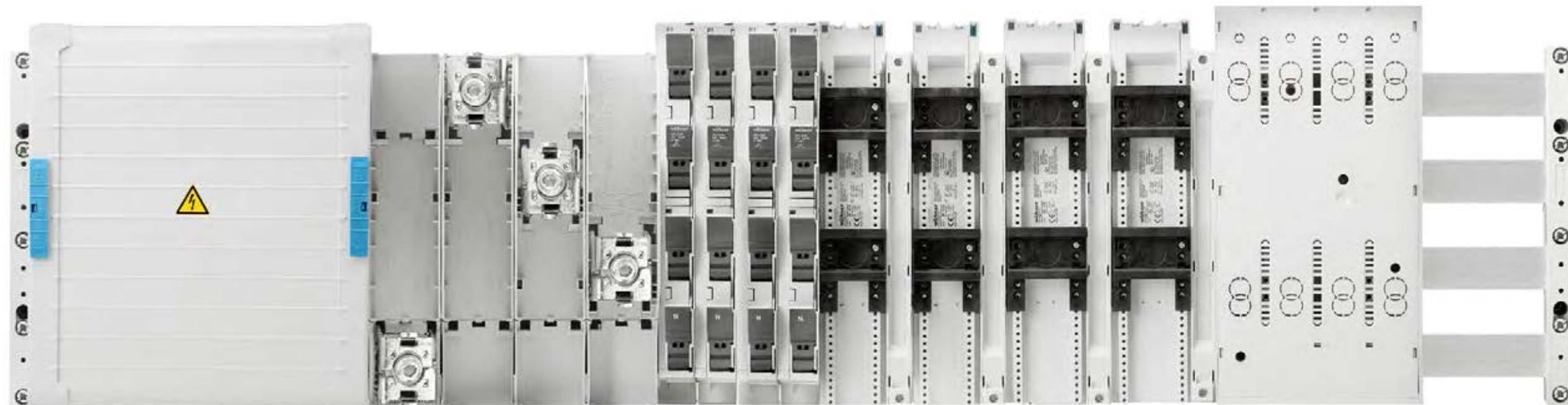
60 MM BUSBAR SYSTEM

# 60Classic

## Multipole possibilities in the 60 mm busbar system

A whole range of 4-pole components are available: Connection options for different conductor types and cover systems, holders for cylindrical fuses and a selection of adapters for switching devices, also as PE/N adapter module. A 4-pole

system can also be set up with double T-bars at a distance of 60 mm between busbar centres. The 4th busbar is mainly used for the N conductor, alternatively it can be used as PE and as a supplement to the 5-pole-system.



## Busbars 60Classic

- 12, 15, 20, 30 x 5, 10 mm
- tin-plated versions
- proven load current capacity
- proven short-circuit capacity
- UL listed

## Double-T, triple-T, TCC section busbars 60Classic

- double-T section busbars in 500 mm<sup>2</sup> and 720 mm<sup>2</sup>
- triple-T section busbars with 1140 mm<sup>2</sup>
- TCC section busbars 1600 mm<sup>2</sup>
- UL listed double-T and triple-T bars

## Busbar support 60Classic

- Busbar support for easy and safe construction of systems with 60 mm distance between busbar centers.
- 1-, 2-, 3- and 4-pole versions
  - adjustable for busbars 12 x 5 - 30 x 10 mm
  - versions for double-T and triple-T bars
  - versions in connection with spacer or base plate
  - UL listed

## Busbar support 60Classic

- Busbar support for section busbars in the 60Classic system.
- 1- and 3-pole versions
  - versions for double-T, triple-T and TCC section busbars
  - UL listed double-T and triple-T bars

## CRITO®60Classic

- Connection module for 60Classic. Particularly simple, safe and convenient mounting. With spring terminals.
- rated current 80 A
  - equipment width 20 mm
  - connection range AWG 16 - 6
  - spring terminal technology for quick conductor connection
  - UL listed

## CRITO®60Classic

- Connection technology for many different conductor types up to MCM 600 cross-section and up to 32 mm wide lam. Cu bars.
- rated current up to 800 A
  - equipment width: 54, 81, 135, 153, 204 mm
  - connection range AWG 10 - 600 MCM with different conductor connection terminals
  - UL listed

## EQUES®60Classic

- The EQUES® busbar adapters are available for simple mounting of motor starter combinations from various manufacturers.
- rated current up to 80 A
  - equipment width from 45 to 90 mm
  - moveable DIN rails
  - connection leads: terminals up to AWG 6
  - versions with CrossLink®Technology
  - UL listed

## EQUES®60Classic

- Busbar adapters for circuit breakers up to 640 A.
- 3- and 4-pole versions
  - versions for all commercially available switching devices
  - size aligned to the circuit breaker
  - easy and convenient mounting
  - integrated connection for the respective switching device
  - UL listed



### MOTUS® 60Classic

Hybrid motor starter with integrated functions: direct and reversing starter, overload protection and emergency stop function. Significantly reduced space requirements and wiring costs.

- 3 design versions: 0.6 A, 2.4 A and 9 A
- equipment width 22.5 mm
- hybrid switch technology
- up to 30 mil. switching cycles
- versions with IO-Link interface
- UL listed



### OMUS® 60Classic

Hybrid switch for switching resistive loads. The hybrid switch technology minimises power dissipation.

- continuous current up to 20 A
- equipment width 36 mm
- 4 integrated functions: energy supply, fuse protection, monitoring and switching
- 3-pole or 1-pole switching
- UL listed



### BROOME10® 60Classic

Power supply for direct connection, including adapter with CrossLink® Technology.

- rated voltage 24 V DC
- nominal output current 10 A
- equipment width 45 mm
- no back-up fuse required
- series and parallel connection to expand the current and voltage range
- UL listed



### QUADRON® 60Classic

Class J busbar mounted fuse-holder with CrossLink® Technology. Spring-loaded for secure connection, tool-free installation, easily change outgoing direction.

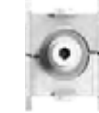
- for Class J fuses up to 400 A
- integrated fuse adaptor for ease of use
- UL listed



### AMBUS® 60Classic

Busbar mounted fuse-holder for Class CC or 10x38 fuses up to 32 A. Snap-on mounting on busbars, convenient connection with springtype terminals on outgoing side.

- equipment width 27 mm
- 2-, 3- and 4-pole versions
- versions with LED display
- 1-pole version for photovoltaic applications
- UL listed



### CRITO®

Brace terminals for round or flat conductor. Simple and convenient connection due to overlap of the busbar and conductor.

- conductor connection possible from top and bottom
- looping possible
- for round conductors AWG 2 - 600 MCM
- for flat conductors 50 - 100 mm wide
- UL listed

## 60Classic - Busbar systems

1-, 2-, 3-, 4-pole systems, system height 200 mm



### UL busbar support, without end cover

Type	Busbar	Pack size	Weight kg/100 u.	PG	Part No.
3-pole, with internal screw holes	12, 20, 30 x 5, 10	10	14.0	06	01508
4-pole, with internal screw holes		10	19.7	06	01357

### UL spacer, for UL busbar supports

suitable for 01508	10	9.1	06	01358
suitable for 01357	10	13.1	06	01359

### Base plate, for UL busbar supports 01508, 01231, 01232

240 x 1100	2	73.7	06	01518
240 x 700	2	46.9	06	01515

### PE/N busbar support, incl. PE and N labels

Type	Busbar	Pack size	Weight kg/100 u.	PG	Part No.
2-pole, indiv. mountable	* 12, 15, 20, 25, 30 x 5, 10	10	9.5	06	01356
1-pole, indiv. mountable	12, 20, 30 x 5, 10	1	5.9	06	01601

\* stepped busbars

### End cover, for universal busbar supports, to cover the busbar ends

Type	Pack size	Weight kg/100 u.	PG	Part No.
for busbar support 01356 and 01601	10	0.7	06	01325
for busbar support 01602	1	1.5	06	01363
for busbar supports 01484, 01495, 01500, 01508 and 01603	10	2.0	06	01573
for busbar supports 01357 and 01485 (1x 01131 = 1 left + 1 right cover)	5	5.6	06	01131



### BROOME10®60Classic power supply, with CrossLink®Technology

Type	Nominal output current	Width	Height	Pack size	Weight kg/100 u.	PG	Part No.
24 V DC, with push-in terminals	10 A	45	200	1	71.8	21	36202

parallel connection for increased current and series connection for increased voltage possible

## 60Classic - Busbar systems with section busbars

1-, 3-, 4-pole systems



### Busbar support, for double-T section, without end cover

Type	Pack size	Weight kg/100 u.	PG	Part No.
1-pole, to be attached to 01231 and individually mountable	4	13.0	06	01116
3-pole, with internal screw holes	3	59.1	06	01231

### Busbar support, for triple-T section, without end cover

1-pole, to be attached to 01232 and individually mountable	4	15.0	06	01132
3-pole, with internal screw holes	2	69.7	06	01232

### Busbar support, for TCC section, without end cover

3-pole, with internal screw holes	2	69.7	06	01422
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### End cover, for busbar support for section busbars

for busbar supports 01116 and 01132	4	1.8	06	01373
for busbar supports 01231 and 01232	4	4.8	06	01234
for busbar support 01422	4	5.3	06	01425

### End cover, for universal busbar supports, to cover the busbar ends

Type	Pack size	Weight kg/100 u.	PG	Part No.
for busbar support 01356 and 01601	10	0.7	06	01325
for busbar supports 01484, 01495, 01500, 01508 and 01603	10	2.0	06	01573
for busbar supports 01357 and 01485 (1x 01131 = 1 left + 1 right cover)	5	5.6	06	01131

## 60Classic - Busbar systems

standard copper busbars and section busbars



### Copper busbar, flat, tin-plated

Type	Length	Rated current	Pack size	Weight kg/100 u.	PG	Part No.
busbar 12 x 5	2400	150 A	1	128.4	06	01618
busbar 20 x 5	2400	362 A	1	214.4	06	01620
busbar 30 x 5	2400	500 A	1	321.4	06	01622
busbar 12 x 10	2400	300 A	1	257.0	06	01623
busbar 20 x 10	3600	564 A	1	650.0	06	01140
busbar 20 x 10	2400	564 A	1	428.6	06	01624
busbar 30 x 10	3600	630 A	1	970.0	06	01204
busbar 30 x 10	2400	630 A	1	643.2	06	01625

rated current for busbar 30 x 10 in 60Classic system up to 756 A  
partial lengths on request



### Section copper busbar, tin-plated

Type	Length	Rated current	Pack size	Weight kg/100 u.	PG	Part No.
double-T section busbar 500 mm <sup>2</sup>	3600	1200 A	1	1596.0	06	01224
double-T section busbar 500 mm <sup>2</sup>	2400	1200 A	1	1062.0	06	01609
double-T section busbar 720 mm <sup>2</sup>	3600	1400 A	1	2334.0	06	01190
double-T section busbar 720 mm <sup>2</sup>	2400	1400 A	1	1554.0	06	01608
triple-T section busbar 1140 mm <sup>2</sup>	3600	1800 A	1	3693.6	06	01227
triple-T section busbar 1140 mm <sup>2</sup>	2400	1800 A	1	2462.4	06	01187
TCC section busbar 1600 mm <sup>2</sup>	2400		1	3416.0	06	01610

partial lengths on request

## 60Classic - Covering systems

1-, 3- and 4-pole versions



### Busbar cover, for 1-pole busbars

Type	Pack size	Weight kg/100 u.	PG	Part no.
for 12 - 30 x 5 busbar, 1 m long	10	8.7	06	01244
for 12 - 30 x 10 busbar, 1 m long	10	10.1	06	01245
for double-T and triple-T section, 1m long	5	38.0	06	01252
for 12 x 5 busbar, 1 m long	10	3.2	06	78463

independent from system, for individual busbars

### Cover section, for 3-pole busbar systems

700 x 195	2	75.0	06	01025
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### Mount, for cover section for 3-pole busbar systems

depth 32 mm, for 01025	10	3.9	06	01026
depth 107 mm, for 01025, 01236, 01237, 01238	8	12.0	06	01320

snaps directly onto busbars 12, 15, 20, 25, 30 x 5, 10, double-T and triple-T section

### Holder set, for cover sections for 3-pole busbar systems

set consisting of left and right holder, for covers 01554, 01555 and 01417	1	18.0	07	01136
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### Cover section, for holder set for 3-pole busbar systems

front mounted, 1.10 m long, for holder 01136	1	45.1	07	01554
top / bottom, 1.10 m long, for holders 01136 or 01137	2	27.1	07	01555
top / bottom, slotted, 1.10 m long, for holders 01136 or 01137	2	23.0	06	01417

snaps directly onto busbars 12, 15, 20, 25, 30 x 5, 10, double-T and triple-T section

### Holder set, for cover sections for 4-pole busbar systems

set consisting of left and right holder, for covers 01599, 01555 and 01417	1	21.0	07	01137
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### Cover section, for holder set for 4-pole busbar systems

front mounted, 1.10 m long, for holder 01137	1	58.0	07	01599
top / bottom, 1.10 m long, for holders 01136 or 01137	2	27.1	07	01555
top / bottom, slotted, 1.10 m long, for holders 01136 or 01137	2	23.0	06	01417

### Compartment section, for adjusting the installation depth for double-T and triple-T section busbar systems

48 mm deep, 2.40 m long	1	70.0	06	01236
76 mm deep, 2.40 m long	1	105.0	06	01237
106 mm deep, 2.40 m long	1	140.0	06	01238

## CRITO®60Classic - Connection technology

3- and 4-pole versions



### Connection module, 3-pole, for 12, 15, 20, 25, 30 x 5, 10 busbars and section busbars, with spring terminals, with cover cap

Type	Rated current	Width	Pack size	Weight kg/100 u.	PG	Part No.
with integrated spring terminals 1.5 - 16 mm <sup>2</sup> , AWG 14 - 6	48 A	20	8	18.1	07	01563

### Connection terminal plate, 3-pole, for 12 x 5 - 30 x 10 busbars and section busbars, with cover cap

Type	Rated current	Width	Pack size	Weight kg/100 u.	PG	Part No.
6 - 50 mm <sup>2</sup> , AWG 10 - 2/0, lam. Cu. 7 - 9 x 4 - 10	175 A	54	1	45.1	07	01240
35 - 120 mm <sup>2</sup> , AWG 2 - 250 MCM, lam. Cu. 9 - 15.5 x 2,4 - 10	250 A	81	1	53.5	07	01243

### Accessories, single cover for terminals

Type	Pack size	Weight kg/100 u.	PG	Part No.
for terminal plate 01240	3	0.4	07	01300
for terminal plate 01243	3	0.5	07	01301



### Connection set, 3-pole, for 20 x 5 - 30 x 10 and section busbars, without cover cap

Type	Rated current	Width	Pack size	Weight kg/100 u.	PG	Part No.
95 - 300 mm <sup>2</sup> , AWG 3/0 - 600 MCM	* 420 A	153	1	155.5	07	01537
lam. Cu. 20 - 32 x 3 - 15	800 A	153	1	132.5	07	01538

\* when using aluminium conductors, observe the maintenance instructions (see chapter 8.2 - Appendix, subsection "Conductor connections")

### Connection set, 4-pole, for 20 x 5 - 30 x 10 and section busbars, without cover cap

Type	Rated current	Width	Pack size	Weight kg/100 u.	PG	Part No.
95 - 300 mm <sup>2</sup> , AWG 3/0 - 600 MCM	* 420 A	204	1	210.0	07	01147
lam. Cu. 20 - 32 x 3 - 15	800 A	204	1	180.0	07	01162

\* when using aluminium conductors, observe the maintenance instructions (see chapter 8.2 - Appendix, subsection "Conductor connections")

### Cover cap, 3-pole, can also be used as a reserve section cover

For busbar	W x H x D	Pack size	Weight kg/100 u.	PG	Part No.
12, 15, 20, 25, 30 x 5, 10 and section busbars	54 x 200 x 55	1	14.7	07	01590
12, 15, 20, 25, 30 x 5, 10 and section busbars	84 x 200 x 55	10	14.9	07	01413
20, 25, 30 x 5, 10 and section busbars	135 x 200 x 90	1	29.5	07	01756
12, 15, 20, 25, 30 x 5, 10 and section busbars	180 x 200 x 90	1	33.0	07	01539
12, 15, 20, 25, 30 x 5, 10 and section busbars	228 x 200 x 90	1	37.3	07	01596
12, 15, 20, 25, 30 x 5, 10 and section busbars	250 x 200 x 90	1	39.3	07	01540
20, 25, 30 x 5, 10 and section busbars	270 x 200 x 90	1	64.7	07	01757

### Cover cap, 4-pole, can also be used as a reserve section cover

For busbar	W x H x D	Pack size	Weight kg/100 u.	PG	Part No.
12, 15, 20, 25, 30 x 5, 10 and section busbars	228 x 260 x 90	1	45.0	07	01597

## CRITO® - Conductor connection terminals

1-pole terminals and 3-pole terminal covers



### Universal connection terminal, 1.5 - 120 mm<sup>2</sup>, AWG 16 - 250 MCM

For busbar	Connection min. - max.	Terminal space W x H	Rated current	Pack size	Weight kg/100 u.	PG	Part No.
flat busbars 5 mm	1.5 - 16 mm <sup>2</sup> , AWG 16 - 6	7 x 7	65 A	100	2.1	07	01284
	4 - 35 mm <sup>2</sup> , AWG 10 - 2	10 x 11	115 A	50	4.6	07	01285
	16 - 70 mm <sup>2</sup> , AWG 14 - 2/0	14 x 14	175 A	25	7.1	07	01287
	16 - 120 mm <sup>2</sup> , AWG 4 - 250 MCM	17 x 15	255 A	25	10.6	07	01068
flat busbars 10 mm	1.5 - 16 mm <sup>2</sup> , AWG 16 - 6	7 x 7	65 A	100	2.3	07	01289
	4 - 35 mm <sup>2</sup> , AWG 10 - 2	10 x 11	115 A	50	4.7	07	01290
flat busbars 10 mm and section busbars	16 - 70 mm <sup>2</sup> , AWG 14 - 2/0	14 x 14	175 A	25	7.5	07	01292
	16 - 120 mm <sup>2</sup> , AWG 4 - 250 MCM	17 x 15	255 A	25	10.9	07	01203

### Cover cap, for universal connection terminals

Type	Pack size	Weight kg/100 u.	PG	Part No.
terminal cover, for 01284 and 01289	20	0.5	07	01093

### Brace terminal, 300 mm<sup>2</sup> / 600 MCM, for round conductors

For busbar	Connection	Rated current	Pack size	Weight kg/100 u.	PG	Part No.
12, 15, 20 x 5, 10	* 35 - 150 mm <sup>2</sup> , AWG 2 - 300 MCM, lam. Cu. 15 - 20 x 5 - 10	285 A	6	10.2	07	01135
20, 25, 30 x 5, 10 and section busbars	Cu 95 - 185 mm <sup>2</sup> , AWG 3/0 - 350 MCM	310 A	6	31.2	07	01318
20, 25, 30 x 5, 10 and section busbars	* Cu 95 - 300 mm <sup>2</sup> , 250 - 600 MCM	420 A	3	42.5	07	01760

\* when using aluminium conductors, observe the maintenance instructions (see chapter 8.2 - Appendix, subsection "Conductor connections")

### Brace terminal, 30 to 105 wide, for flat conductors

For busbar	Terminal space	Rated current	Pack size	Weight kg/100 u.	PG	Part No.
20, 25, 30 x 5, 10 and section busbars	30 x 20	800 A	6	30.3	07	01319
	32 x 20	800 A	3	34.7	07	01759
30 x 10 and section busbars	55 x 10 - 28	1200 A	3	50.0	07	01069
	68 x 10 - 28	1400 A	3	63.0	07	01070
	105 x 10 - 28	1800 A	3	84.0	07	01071

### Cover cap, 3-pole, can also be used as a reserve section cover

For busbar	W x H x D	Pack size	Weight kg/100 u.	PG	Part No.
20, 25, 30 x 5, 10 and section busbars	135 x 200 x 90	1	29.5	07	01756
12, 15, 20, 25, 30 x 5, 10 and section busbars	180 x 200 x 90	1	33.0	07	01539
12, 15, 20, 25, 30 x 5, 10 and section busbars	228 x 200 x 90	1	37.3	07	01596
12, 15, 20, 25, 30 x 5, 10 and section busbars	250 x 200 x 90	1	39.3	07	01540
20, 25, 30 x 5, 10 and section busbars	270 x 200 x 90	1	64.7	07	01757

### Cover cap, 4-pole, can also be used as a reserve section cover

For busbar	W x H x D	Pack size	Weight kg/100 u.	PG	Part No.
12, 15, 20, 25, 30 x 5, 10 and section busbars	228 x 260 x 90	1	45.0	07	01597



## CRITO® - Conductor connection terminals

1-pole profile terminals for round and flat conductors



### Profile terminal, for double-T section busbars

Connection cross-section	Rated current	Terminal space	Pack size	Weight kg/100 u.	PG	Part No.
320 - 800 mm <sup>2</sup>	1200 A	41 x 20 - 42	3	67.0	07	<b>01185</b>
500 - 750 mm <sup>2</sup>	1200 A	51 x 5 - 28	3	70.5	07	<b>01906</b>
600 - 900 mm <sup>2</sup>	1400 A	64 x 5 - 28	3	84.0	07	<b>01907</b>
500 - 1000 mm <sup>2</sup>	1200 A	51 x 20 - 42	3	73.5	07	<b>01936</b>
600 - 1200 mm <sup>2</sup>	1400 A	64 x 20 - 42	3	85.9	07	<b>01911</b>
800 - 1600 mm <sup>2</sup>	1800 A	81 x 20 - 42	3	101.1	07	<b>01934</b>
1000 - 2000 mm <sup>2</sup>	1800 A	101 x 20 - 42	3	113.7	07	<b>01935</b>

for the connection of flat busbars and flexible copper busbars

### Profile terminal, for triple-T section busbars

320 - 800 mm <sup>2</sup>	1200 A	41 x 23 - 45	3	105.0	07	<b>01513</b>
500 - 1260 mm <sup>2</sup>	1400 A	64 x 23 - 45	3	124.0	07	<b>01008</b>
1200 - 3600 mm <sup>2</sup>	1800 A	101 x 23 - 45	3	172.7	07	<b>01186</b>

for the connection of flat busbars and flexible copper busbars

### Brace terminal, for busbars 30 x 10 and section busbars

500 - 1000 mm <sup>2</sup>	1200 A	55 x 10 - 28	3	50.0	07	<b>01069</b>
600 - 1200 mm <sup>2</sup>	1400 A	68 x 10 - 28	3	63.0	07	<b>01070</b>
1000 - 2000 mm <sup>2</sup>	1800 A	105 x 10 - 28	3	84.0	07	<b>01071</b>

for the connection of flat busbars and flexible copper busbars

## CRITO® - Longitudinal busbar connectors

for flat conductors and section busbars



### Busbar connecting terminal, for same-size busbars

For busbar	Length	System spacing	Rated current	Pack size	Weight kg/100 u.	PG	Part No.
20, 25, 30 x 5, 10	40	9 - 20 mm	756 A	6	23.3	07	<b>01990</b>
	40	13 - 20 mm	756 A	6	25.2	07	<b>01823</b>
	95	50 - 60 mm	756 A	3	54.4	07	<b>01141</b>
	150	100 - 110 mm	756 A	3	86.6	07	<b>01886</b>
double-T section	50	9 - 20 mm	1400 A	6	49.4	07	<b>01827</b>
	95	50 - 60 mm	1400 A	3	94.3	07	<b>01145</b>
	150	100 - 110 mm	1400 A	3	146.1	07	<b>01829</b>
triple-T section	95	50 - 60 mm	1800 A	3	120.6	07	<b>01274</b>
	150	100 - 110 mm	1800 A	3	178.0	07	<b>01275</b>

3 pieces are required for a 3-pole connection, use 01026 or 01320 as well as 01025 as covers (see 3.4)

for a UL-compliant design of the longitudinal busbar connector, one of the UL separation blocks described below must be used

### UL separator set, 3-pole, for longitudinal busbar connector

Type	Width	Pack size	Weight kg/100 u.	PG	Part No.	
for longitudinal connecting terminals 01990, 01823, 01827	*	105	1	17.2	06	<b>01360</b>
for longitudinal connecting terminals 01141, 01145, 01274	*	145	1	19.6	06	<b>01361</b>
for longitudinal connecting terminals 01886, 01829, 01275		200	1	21.8	06	<b>01362</b>

\* the depth gauge must be tailored to fit

## EQUES®60Classic CrossLink®Technology - Busbar adapters 16 A - 45 A

removable top section with CrossLink® interface, the touch-protected base remains on the busbar system



### Busbar adapter with fuse-carrier, 16 A, with removable top section, with leads AWG 14 (2.5 mm<sup>2</sup>)

Type	Width	Height	Pack size	Weight kg/100 u.	PG	Part No.
1 fixed mounting rail, with fuse-carrier 10x38 / Class CC	22.5	200	1	20.0	05	36003

### Busbar adapter, 16 A, with removable top section, with leads AWG 14 (2.5 mm<sup>2</sup>)

Type	Width	Height	Pack size	Weight kg/100 u.	PG	Part No.
for direct starter Allen-Bradley 140M-RC2E, Eaton PKZM0, Siemens S00, Schneider Electric GV2 with spring terminals	45	200	4	42.7	05	32401

### Busbar adapter, 25 A, with removable top section, with leads AWG 12 (4 mm<sup>2</sup>)

Type	Width	Height	Pack size	Weight kg/100 u.	PG	Part No.
2 adjustable mounting rails	45	200	4	42.7	05	32400
2 adjustable mounting rails		260	4	45.0	05	32402

### Busbar adapter, 32 A, with removable top section, with leads AWG 10 (6 mm<sup>2</sup>)

Type	Width	Height	Pack size	Weight kg/100 u.	PG	Part No.
2 adjustable mounting rails	54	200	4	49.2	05	32404
2 adjustable mounting rails		260	4	54.4	05	32408

### Busbar adapter, 45 A, with removable top section, with leads AWG 8 (10 mm<sup>2</sup>)

Type	Width	Height	Pack size	Weight kg/100 u.	PG	Part No.
2 adjustable mounting rails	54	200	4	52.9	05	32412
2 adjustable mounting rails		260	4	56.7	05	32416

### Busbar component support, with removable top section, without electrical connection

Type	Width	Height	Pack size	Weight kg/100 u.	PG	Part No.
2 adjustable mounting rails	45	200	4	34.9	05	32420
2 adjustable mounting rails			4	38.8	05	32421
2 adjustable mounting rails	45	260	4	36.2	05	32425
2 adjustable mounting rails			4	42.1	05	32426

### Side-mounted module, for busbar adapters with removable top section

Type	Width	Height	Pack size	Weight kg/100 u.	PG	Part No.
attachable to both sides	9	200	10	4.3	05	32964

### Accessories, for CrossLink® busbar adapters

Type	Pack size	Weight kg/100 u.	PG	Part No.
mounting rail 45 mm	10	1.4	05	32947
mounting rail 54 mm	10	1.5	05	32948
mounting rail 63 mm	10	1.8	05	32949
mounting rail 72 mm	10	2.0	05	32950
mounting rail 81 mm	10	2.1	05	32951
mounting rail end stop	50	0.1	05	32969
connecting element, universal	50	0.1	05	32954
8-pole connector, with support, 250 V	10	3.4	05	32511
10-pole connector, with support, 250 V	10	4.0	05	32513
micro switch for CrossLink® adapter	10	0.9	05	32956

all devices can be mounted directly on busbars 12, 15, 20, 25, 30 x 5, 10 and section busbars

## EQUES®60Classic - Busbar adapters 25 A - 80 A

universal version



### Busbar adapter, 25 A, with leads AWG 12 (4 mm<sup>2</sup>)

Type	Width	Height	Pack size	Weight kg/100 u.	PG	Part No.
1 adjustable mounting rail	45	200	4	32.5	05	32430
2 adjustable mounting rails			4	32.6	05	32431
2 adjustable mounting rails	90		2	57.1	05	32432
2 adjustable mounting rails	45	260	4	35.7	05	32433

### Busbar adapter, 25 A, without leads, with screw terminals 6 mm<sup>2</sup> / AWG 10 from rear

Type	Width	Height	Pack size	Weight kg/100 u.	PG	Part No.
2 adjustable mounting rails	45	200	4	32.2	05	32436
		260	4	35.2	05	32439

### UL terminal cap

Type	Width	Height	Pack size	Weight kg/100 u.	PG	Part No.
for busbar adapters 32436 and 32439	45	15	4	0.7	05	32973

### Busbar adapter, 32 A, with leads AWG 10 (6 mm<sup>2</sup>)

Type	Width	Height	Pack size	Weight kg/100 u.	PG	Part No.
1 adjustable mounting rail	45	200	4	33.3	05	32655
1 adjustable mounting rail	54		4	36.6	05	32441
2 adjustable mounting rails			4	38.0	05	32442
1 adjustable mounting rail	63		4	44.5	05	32443
1 adjustable mounting rail	72		4	44.3	05	32444
2 adjustable mounting rails	81		4	49.5	05	32446
2 adjustable mounting rails	54	260	4	43.3	05	32449

### Busbar adapter, 63 A, with leads AWG 8 (10 mm<sup>2</sup>)

Type	Width	Height	Pack size	Weight kg/100 u.	PG	Part No.
1 adjustable mounting rail	54	200	4	39.2	05	32454
2 adjustable mounting rails			4	41.0	05	32455
1 adjustable mounting rail	63		4	44.9	05	32456
1 adjustable mounting rail	72		4	47.6	05	32457
2 adjustable mounting rails	81		4	51.3	05	32459
2 adjustable mounting rails	54		260	4	43.0	05

### Busbar adapter, 80 A, without leads, with screw terminals 16 mm<sup>2</sup> / AWG 6 from rear

Type	Width	Height	Pack size	Weight kg/100 u.	PG	Part No.
1 adjustable mounting rail	54	200	4	37.3	05	32466
2 adjustable mounting rails			4	38.9	05	32467
1 adjustable mounting rail	72		4	45.0	05	32469
2 adjustable mounting rails	54	260	4	43.8	05	32472

### UL terminal cap

Type	Width	Height	Pack size	Weight kg/100 u.	PG	Part No.
for busbar adapters 32466, 32467, 32469 and 32472	54	15	4	0.8	05	32974

all devices can be mounted directly on busbars 12, 15, 20, 25, 30 x 5, 10 and section busbars

## EQUES®60Classic - Busbar component supports

universal version



### Busbar component support, without electrical connection

Type	Width	Height	Pack size	Weight kg/100 u.	PG	Part No.
2 adjustable mounting rails	45	200	4	24.8	05	32477
1 adjustable mounting rail and 1 positioner for Siemens S00	45		4	24.8	05	32635
for direct starter Siemens 3RA6	45		4	24.8	05	32589
2 adjustable mounting rails	54	260	4	27.7	05	32478
2 adjustable mounting rails	45		4	27.9	05	32484
1 adjustable mounting rail and 1 positioner for Siemens S00 and S0	45		4	27.9	05	32636
2 adjustable mounting rails	54		4	38.5	05	32485

### Side-mounted module, for busbar adapter

attachable to both sides	9	200	10	2.3	05	32963
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### PE/N adapter module, with connection terminals 16 mm<sup>2</sup> / AWG 6 top and bottom

attachable to busbar adapter on both sides	18	242	4	14.1	05	32146
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### Accessories, for adapter

Type	Pack size	Weight kg/100 u.	PG	Part No.
mounting rail 45 mm	10	1.4	05	32947
mounting rail 54 mm	10	1.5	05	32948
mounting rail 63 mm	10	1.8	05	32949
mounting rail 72 mm	10	2.0	05	32950
mounting rail 81 mm	10	2.1	05	32951
mounting rail end stop	50	0.1	05	32969
connecting element, universal	50	0.1	05	32954
8-pole connector, with support, 250 V	10	3.4	05	32511
10-pole connector, with support, 250 V	10	4.0	05	32513
lead AWG 14 (2.5 mm <sup>2</sup> ), 105 mm long	* 24	0.3	05	32921
lead AWG 10 (6 mm <sup>2</sup> ), 130 mm long	* 24	0.7	05	32907
lead AWG 4 (25 mm <sup>2</sup> ), 210 mm long	* 24	5.1	05	32914
double-lead 2x AWG 10 (2x 6 mm <sup>2</sup> ), 130 / 280 mm long	* 24	2.5	05	32915

\* ultrasonic-welded lead ends

all devices can be mounted directly on busbars 12, 15, 20, 25, 30 x 5, 10 and section busbars

## EQUES®60Classic - Busbar adapters 16 A - 100 A

aligned to motor starters



### Busbar adapter, 16 A, with leads AWG 14 (2.5 mm<sup>2</sup>)

Type	Width	Height	Pack size	Weight kg/100 u.	PG	Part No.
for direct starter Allen-Bradley 140M-RC2E, Eaton PKZM0, Siemens S00, Schneider Electric GV2 with spring terminals	45	200	4	31.0	05	32429
for reversing starter Allen-Bradley 140M-RC2E, Eaton PKZM0, Siemens S00, Schneider Electric GV2 with spring terminals	90		2	57.0	05	32440

### Busbar adapter, 25 A, with leads AWG 12 (4 mm<sup>2</sup>)

for direct starter Eaton PKZM01, PKE12	45	200	4	33.0	05	32450
for reversing starter Eaton PKZM01, PKE12	90		2	54.6	05	32452
for direct starter Siemens S00 with screw connection	45	260	4	33.0	05	32445
for direct starter Siemens S00 with spring terminal connection	45		4	30.7	05	32637
for reversing starter Siemens S00 with screw connection	90		2	54.1	05	32448
for direct starter Siemens S00 with spring terminal connection	45		4	33.0	05	32650

### Busbar adapter, 32 A, with leads AWG 10 (6 mm<sup>2</sup>)

for direct starter ABB MS116/132	45	200	4	36.4	05	32498
for direct starter Eaton PKZM0, PKE32	45		4	36.4	05	32451
for reversing starter Eaton PKZM0, PKE32	90		2	61.2	05	32453
for direct starter Allen-Bradley 140MC/D	45	260	4	32.5	05	32533
for reversing starter Allen-Bradley 140M-C/D	54		4	38.0	05	32534
for direct starter Schneider Electric GV2-M/P	45		4	33.3	05	32434
for direct starter Schneider Electric GV2-M/P	45		4	36.2	05	32438
for direct starter Schneider Electric LUB12, LUB32	45	200	4	32.2	05	32427
for reversing starter Schneider Electric LUB12/32	45		4	35.1	05	32428
for direct starter Siemens S0 with screw connection	45	260	4	33.3	05	32639
for direct starter Siemens S0 with spring terminal connection	45		4	32.1	05	32659
for direct starter Siemens S0 with spring terminal connection	45		4	32.1	05	32638
for direct starter Siemens 3RA6	45	200	4	44.0	05	32588

### Busbar adapter, 63 A, with leads AWG 8 (10 mm<sup>2</sup>)

for direct starter ABB MS45x, Eaton PKZM4, Siemens S2	55	260	4	43.2	05	32460
for direct starter Allen-Bradley 140M-F	54	200	4	43.0	05	32535
for direct starter ABB MS45x and Eaton PKZ5	72	260	2	51.4	05	32463

### Busbar adapter, 80 A, with leads AWG 4 (25 mm<sup>2</sup>)

for circuit breaker Siemens Sirius frame size S2, 200 mm long	54	200	1	52.1	05	32662
for direct starter Siemens Sirius frame size S2, 260 mm long	54	260	1	59.1	05	32663
for reversing starter Siemens Sirius frame size S2, 260 mm long	117		1	87.3	05	32664
for Siemens NGG, HGG, LGG (up to 80 A)	81	200	2	66.0	05	32029

### Busbar adapter, 100 A, with leads AWG 4 (25 mm<sup>2</sup>)

for circuit breaker ABB MS49x and Siemens Sirius frame size S3, 200 mm long	72	200	1	66.0	05	32981
for Schneider Electric GV4	81	200	1	66.0	05	32034

all devices can be mounted directly on busbars 12, 15, 20, 25, 30 x 5, 10 and section busbars

## EQUES®60Classic - Busbar adapters 160 A - 250 A

aligned to circuit breakers



### Busbar adapter, 160 A, 3-pole

Type	Rated current	Width	Height	Pack size	Weight kg/100 u.	PG		Part No.
for ABB T-max T1, XT1, T2, XT2, GE FD160, Schneider EI. NS80, NSX80, top connection to the system	160 A	90	200	1	81.0	05		32575
for ABB T-max T1, XT1, XT2, Allen-Bradley 140G-G and H, top connection to system	160 A	90		1	81.0	05		32018
for ABB T-max T1, XT1, XT2, Allen-Bradley 140G-G and H, bottom connection to the system	160 A	90		1	81.0	05		32020
for Schneider Electric NSXm 160 and NG125, top connection to system	160 A	90		1	81.0	05		32068
for Schneider Electric HL150	150 A	105	190	1	93.8	05		32600
for Allen-Bradley 140U-H, top connection to the system	160 A	90	200	1	81.0	05		32577
for Eaton NZM1, connection top / bottom	160 A	92		1	81.0	05		32570
for Siemens 3VA10, 11, top connection to the system	160 A	76		1	81.0	05		32660
for Siemens 3VA10, 3VA11, 3VA51 and Siemens NGG, LGG, HGG, top connection to the system	125 A	90		1	81.0	05		32028
for Siemens 3VA10, 3VA11, 3VA51 and Siemens NGG, LGG, HGG, bottom connection to the system	125 A	90		1	81.0	05		32030
for Siemens 3VL1	250 A	105	190	1	95.3	05		32976

### Busbar adapter, 250 A, 3-pole, connection to system at the top / bottom

for ABB T-max T4 and Siemens 3RV1063 *	250 A	105	240	1	122.0	05		32601
for ABB T-max XT4, Allen-Bradley 140G-J	250 A	105	190	1	122.0	05		32023
for Eaton JG	250 A	105		1	90.0	05		32137
for Eaton NZM2-XKR40 and NZM2-XKR4U	250 A	105		1	90.1	05		32140
for Siemens 3VL2, 3VL3	250 A	105		1	95.3	05		32977
for Siemens 3VA12, 20, 21, 22, 52, 61, 62	250 A	105	240	1	102.0	05		32017
for Schneider Electric NSX100-NSX250, GV7, J250	250 A	105	190	1	93.8	05		32156
for Terasaki S250-NJ *	250 A	105	240	1	102.0	05		32592

\* connection to system only at the top

### Busbar adapter, 250 A, 4-pole, connection to system at the top

for ABB Tmax T4	250 A	140	270	1	180.0	05		32584
for ABB XT3, XT4, Allen-Bradley 140G-J	250 A	140		1	180.0	05		32586
for Siemens 3VA12, 20, 21, 22, 61, 62	250 A	140		1	153.0	05		32067
for Schneider Electric NSX100-NSX250 *	250 A	140	251	1	118.6	05		32642
for Eaton NZM2-XKR40	250 A	140	270	1	180.0	05		32580
for Siemens 3VL2, 3VL3	250 A	140		1	180.0	05		32578

\* top / bottom connection to the system

all devices can be mounted directly on busbars 12, 15, 20, 25, 30 x 5, 10 and section busbars

## EQUES®60Classic - Busbar adapters 630 A

aligned to switchgear or universal busbar adapters



### Busbar adapter, 630 A, 3-pole, phase pitch 43 - 45 mm, connection to system at the top / bottom

Type	Rated current	Width	Height	Pack size	Weight kg/100 u.	PG		Part No.
for ABB T-max T5, Allen-Bradley 140G-K and Siemens 3RV1073	630 A	140	300	1	252.0	05		32593
for Allen-Bradley 140U-K, 140U-L, 140M-L	630 A		272	1	212.0	05		32138
for Schneider Electric NS400/630, NSX 400/630	630 A			1	222.6	05		32157
for Eaton NZM3-XKR13O and NZM3-XKR13U	630 A		300	1	250.0	05		32978
for Siemens 3VL4	540 A		295	1	222.4	05		32975
for Siemens 3VA13, 14, 23, 24, 53, 54, 63, 64	630 A		300	1	250.0	05		32031
for Siemens 3VT37, OEZ BH630	630 A			1	250.0	05		32641

### Busbar adapter, 650 A, 3-pole, phase pitch 70 mm, connection to system at the top

for ABB T-max T6, Allen-Bradley 140G-M and Siemens 3RV1073	640 A	238	300	1	285.6	05		32064
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### Busbar adapter, 630 A, 4-pole, phase pitch 43 - 45 mm, connection to system at the top

for ABB Tmax T5, Allen-Bradley 140G-K	630 A	185	300	1	360.0	05		32585
for Schneider Electric NSX400-NSX630 *	520 A		284	1	283.1	05		32643
for Eaton NZM3-XKR13O	630 A		300	1	350.0	05		32581
for Siemens 3VA13, 14, 23, 24, 53, 54, 63, 64	630 A			1	350.0	05		32033
for Siemens 3VL400	630 A			1	350.0	05		32579

\* connection to the system at the top / bottom

all devices can be mounted directly on busbars 12, 15, 20, 25, 30 x 5, 10 and section busbars

## MOTUS®60Classic - OMUS®60Classic

for switching of inductive and resistive loads



### Hybrid motor starter, MOTUS®60Classic, 3-pole, with reversing function and CrossLink®Technology

Type	Width	Height	Depth	Pack size	Weight kg/100 u.	PG	Part No.
0.075 - 0.6 A direct and reversing starter	22.5	200	156	1	56.1	21	36102
0.18 - 2.4 A direct and reversing starter				1	56.5	21	36105
1.5 - 6.5 A direct and reversing starter				1	56.6	21	36108

### Hybrid motor starter IO-Link, MOTUS®60Classic, 3-pole, with reversing function, CrossLink®Technology and communication interface

Type	Width	Height	Depth	Pack size	Weight kg/100 u.	PG	Part No.
IO-Link 0.18 - 3 A direct and reversing starter	22.5	200	156	1	56.6	21	36125
IO-Link 1.5 - 6.5 A direct and reversing starter				1	56.6	21	36128

### Replacement component, for MOTUS®60Classic

Type	Pack size	Weight kg/100 u.	PG	Part No.
electronic unit 0.075 - 0.6 A direct and reversing starter	1	50.9	21	36109
electronic unit 0.18 - 2.4 A direct and reversing starter	1	50.7	21	36110
electronic unit 1.5 - 6.5 A direct and reversing starter	1	51.4	21	36111
busbar adapter base with CrossLink® interface	1	11.0	05	36114
fuse 16 A for version 0.6 A and 2.4 A	3	2.8	21	31567
fuse 20 A for version 6.5 A	3	2.8	21	31568
fuse 30 A for version 6.5 A for motors with heavy-duty starting	3	2.8	21	31569

### Hybrid switch, OMUS®60Classic, 3- or 1-pole switchable, for resistive loads, with CrossLink®Technology

Type	Width	Height	Depth	Pack size	Weight kg/100 u.	PG	Part No.
20 A (UL)	36	200	144	1	45.8	21	36158

supplied with both load and control plug

### Replacement component, for OMUS®60Classic

Type	Pack size	Weight kg/100 u.	PG	Part No.
electronic unit, 20 A (UL)	1	55.2	21	36159
busbar adapter base with CrossLink® interface	1	10.8	05	36156
3-pole load plug with spring terminals	* 1	1.5	21	36916
3-pole load plug with screw terminals	1	1.4	21	36918
12-pole control plug with spring terminals	1	0.6	21	36917

\* maximum load current 20 A

### Replacement fuse, for OMUS®60Classic

cylindr. fuse link 30 A, time delay	10	0.8	22	31252
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all devices can be mounted directly on busbars 12, 15, 20, 25, 30 x 5, 10 and section busbars

## AMBUS®60Classic - SECUR®60Classic - Fuse-holders

for cylindrical fuses 10x38



### Busbar mounted fuse-holder, 1-pole

Type	For busbar	Rated current	Rated voltage	Width	Pack size	Weight kg/100 u.	PG	Part No.
for fuses 10x38	30 x 5, 10	30 A	1000 V	22.5	12	6.1	01	31570
for fuses 10x38, with LED 110 - 690 V AC / DC	30 x 5, 10	30 A	1000 V	22.5	12	6.6	01	31571
for fuses 10x38	20 x 5, 10	30 A	1000 V	22.5	12	6.3	01	31572

### Busbar mounted fuse-holder, 3-pole, with spring terminals

Type	For busbar	Rated current	Rated voltage	Width	Pack size	Weight kg/100 u.	PG	Part No.
for fuses 10x38	12, 15, 20, 25, 30 x 5, 10 and section busbars	30 A	600 V	27	4	18.5	01	31954
for fuses 10x38, with LED 110 - 690 V AC / DC		30 A	600 V	27	4	18.7	01	31955

all devices can be mounted directly on busbars 12, 15, 20, 25, 30 x 5, 10 and section busbars

## AMBUS®60Classic - QUADRON®60Classic - Fuse-holders

for fuses according to UL 248



### Busbar mounted fuse-holder, 30 A Class CC, AMBUS®60Classic, 3-pole, with spring terminals

Type	Rated current	Rated voltage	Width	Pack size	Weight kg/100 u.	PG	Part No.
for fuses Class CC	30 A	600 V	27	4	18.6	01	31958
for fuses Class CC, with LED 110 - 690 V AC / DC	30 A	600 V		4	18.8	01	31959

for busbars 12, 20, 30 x 5, 10 and section busbars

### Busbar mounted fuse-holder, 30 A - 200 A Class J, QUADRON®60Classic, 3-pole, connection at top / bottom

Type	Rated current	Rated voltage	Width	Pack size	Weight kg/100 u.	PG	Part No.
for fuses Class J 1 - 30 A	30 A	600 V	106	1	138.0	16	33421
for fuses Class J 35 - 60 A	60 A	600 V		1	135.0	16	33422
for fuses Class J 70 - 100 A	* 100 A	600 V		1	129.0	16	33402
for fuses Class J 110 - 200 A	* 200 A	600 V	184	1	278.0	16	33403

for busbars 12, 20, 20 x 5, 10 and section busbars

\* do not use fuse links with sharp-edged blades

### Busbar mounted fuse-holder, 30 A / 60 A Class J, AMBUS®60Classic, complete solution on busbar adapter, 3-pole

Type	Rated current	Rated voltage	Width	Pack size	Weight kg/100 u.	PG	Part No.
for fuses Class J 1 - 30 A, with LED	30 A	600 V	108	1	110.0	16	31968
for fuses Class J 35 - 60 A, with LED	60 A	600 V	126	1	131.0	16	31970

for busbars 12, 20, 20 x 5, 10 and section busbars

### Busbar mounted fuse-holder, 400 A Class J, QUADRON®60Classic, 3-pole, connection at top or bottom

Type	Rated current	Rated voltage	Width	Pack size	Weight kg/100 u.	PG	Part No.
for fuses Class J 225 - 400 A	400 A	600 V	256	1	690.0	16	33311

for busbars 30x10 and section busbars



### NH busbar mounted fuse-switch-disconnector, size 000 - 3, connection at top / bottom, 3-pole

Type	Rated current	Size	Width	Height	Pack size	Weight kg/100 u.	PG	Part No.
box terminal	125 A	NH 000	49.5	200	1	53.5	09	33802
box terminal			89		1	113.0	09	33216
box terminal	160 A	NH 00	106		1	100.0	09	33198
screw M8				1	103.0	09	33398	
box terminal	250 A	NH 1	184	243	1	266.0	09	33600
screw M10					1	266.0	09	33601
screw M10	* 400 A	NH 2	210		288	1	522.0	09
screw M12	** 630 A	NH 3	256	300	1	756.0	09	33603

NH busbar mounted fuse-switch-disconnector size 00 with short connection module for 5-pole busbar systems, distribution boards / insulated distribution boards; see 33075 or 33079

\* for size 2 the conversion kit 33148 is required for mounting on 5 mm busbars

\*\* size 3 is not suitable for 5 mm busbars

### Conversion kit, for mounting on busbars 12, 15, 20, 25 and 30 x 5, only for size 2

Type	Rated current	Rated voltage	Width	Pack size	Weight kg/100 u.	PG	Part No.
for 5 mm busbars			2	1	6.5	09	33148

# 185Power



to the product:  
<https://qrco.de/185power-en>



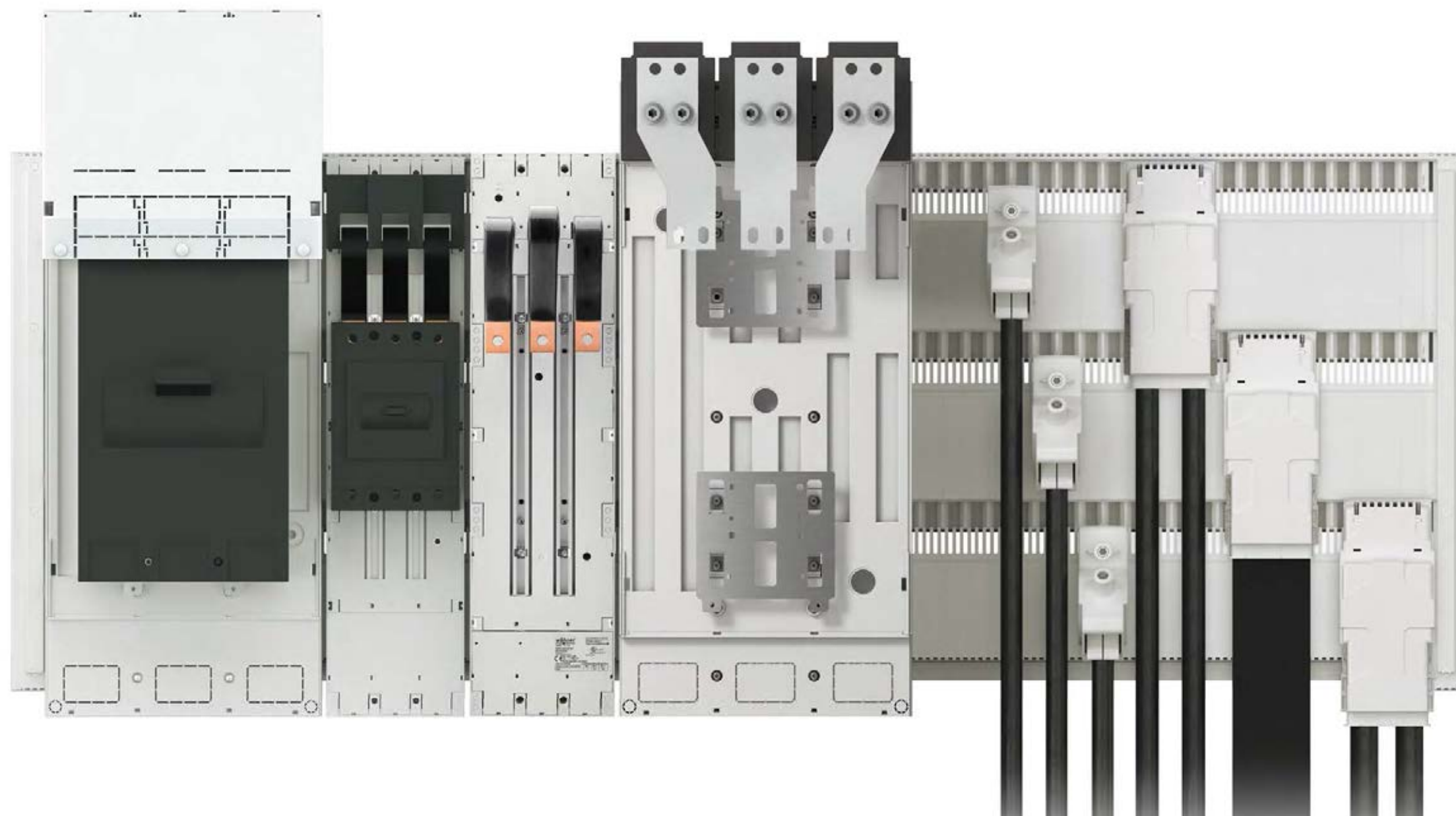
185 MM BUSBAR SYSTEM

# 185Power

## Powerful system solution with 185 mm busbar spacing

The 185Power busbar system by Wöhner is a modular system for low-voltage power distribution. All the components – busbar supports, CrossLink® covers, EQUES® adapters and connection modules – fit together perfectly. When integrating circuit breakers into the system, EQUES® adapters are available for all commercially available circuit breakers for currents

from 400 A up to 1200 A. The 185Power allows the user to quickly realize cost-efficient low-voltage distribution systems. The modular structure and compatibility of the components contribute to efficient use of space within the cabinet. Systems based on the 185Power can easily be expanded or modified.







## Busbars 185Power

- 30, 40, 60, 80, 100, 120 x 10 mm
- tin-plated versions
- proven load current capacity
- proven short-circuit capacity



## Busbar support 185Power

- Busbar support for easy and safe construction of systems with 185 mm distance between busbar centers.
- can be aligned on busbars  
30, 40, 60, 80, 100, 120 x 10
  - end and center cover as accessories



## CrossLink®185Power covering system

- In the 185Power system the CrossLink® 185Power covering modules, base plate profile and busbar support cover provide optimal all-around touch-safe protection for the busbar system.
- 50 mm and 100 mm width versions
  - reliable connection to each other and to the middle and end cover



## CRITO®185Power connection module

- The compact connection up to 500 A with complete touch-safe protection allows a space-saving arrangement on top of each other.
- V-box terminal for connection of cross-sections of AWG 8 to 500 MCM
  - mounting on the CrossLink® touch-safe protection modules or directly on the busbar



## CRITO®185Power connection module

- Modules for direct connection of cables and flexible copper.
- versions with box terminal, for cable lugs and flat copper up to 80 x 10
  - connection top/bottom
  - mounting on the CrossLink® touch-safe protection modules or directly on the busbar



## EQUES®185Power adapter

- The universal busbar adapters for fast and compact mounting of commercially available circuit-breakers.
- rated current: 400 A, 630 A
  - equipment width 150 mm
  - fast and safe mounting with clamp terminals on the CrossLink® touch-safe protection modules
  - optional screw mounting



## EQUES®185Power adapter

- The busbar adapters are used for fast and simple installation of all commercially available circuit-breakers.
- rated current: 630 A - 1200 A
  - equipment width 300 mm
  - fast and safe mounting with clamp terminals on the CrossLink® touch-safe protection modules
  - optional screw mounting

## 185Power CrossLink® Technology - Busbar systems

3-pole systems



### Busbar support and CrossLink® busbar support cover

Article	Type	Pack size	Weight kg/100 u.	PG		Part No.
universal busbar support	for undrilled flat bars 30, 40, 60, 80, 100, 120 x 10	4	50.0	06		01430
end cover for busbar support 01430	set for one left and one right busbar support	1	39.0	06		01431
centre cover for busbar support 01430	when using the busbar support as a centre support	2	17.0	06		01432

additional busbar supports for drilled busbars and section busbars can be found at [www.woehner.com](http://www.woehner.com)

### Copper busbar and busbar cover

Article	Type	Rated current	Pack size	Weight kg/100 u.	PG		Part No.
busbar 30 x 10	length 2.40 m, tinned	630 A	1	643.2	06		01625
busbar 40 x 10	length 2.40 m, tinned	700 A	1	856.8	06		01626
busbar 60 x 10	length 2.40 m, tinned	1100 A	1	1294.0	06		01628
busbar 80 x 10	length 2.40 m, tinned	1300 A	1	1728.0	06		01765
busbar 100 x 10	length 2.40 m, tinned	1550 A	1	2174.0	06		01766
busbar 120 x 10	length 2.40 m, tinned	1800 A	1	2572.8	06		01767
busbar cover	for 12 - 30 x 10 busbar, 1 m long		10	10.1	06		01245

partial lengths on request

### CrossLink®185Power - system cover at front

Article	Type	Rated current	Pack size	Weight kg/100 u.	PG		Part No.
CrossLink® touch-safe protection cover module	50 mm wide	630 A	8	16.0	06		01433
CrossLink® touch-safe protection cover module	100 mm wide	630 A	4	34.0	06		01434
completion section	499 mm long	630 A	2	5.6	06		01440
completion section	649 mm long	630 A	2	7.6	06		01444

the lengths of the completion sections are matched to the lengths of the rear system shrouding;  
completion section, length 499 mm, suitable for 01420; completion section, length 649 mm, suitable for 01436

### CrossLink®185Power - system cover at rear

Article	Type	Rated current	Pack size	Weight kg/100 u.	PG		Part No.
system shrouding, rear	* set for busbar support distance 550 mm (centre to centre)	630 A	1	91.3	06		01420
system shrouding, rear	* set for busbar support distance 700 mm (centre to centre)	630 A	1	110.0	06		01436
spacer	** set, suitable for 01430	630 A	1	13.1	06		01421

\* eight spacers are included with the system partitioning

\*\* set consisting of 4 distance pieces, as an accessory when using a centre bar with system partitioning

### Busbar connecting terminal, for same-size busbars

Article	Type	Rated current	Pack size	Weight kg/100 u.	PG		Part No.
longitudinal busbar connector	40 mm	630 A	3	48.0	07		01480
longitudinal busbar connector	60 mm	630 A	3	72.0	07		01481
touch-safe protection shroud for longitudinal connectors	3-pole, front and rear mounting, cover width 100 mm	630 A	1	29.5	06		01482
touch-safe protection shroud for longitudinal connectors	3-pole, front and rear mounting, cover width 150 mm	630 A	1	45.0	06		01416

one longitudinal busbar connecting terminal 01480 is required for the connection of 30 x 10 busbars;  
two longitudinal busbar connecting terminals 01480 are required for the connection of 80 x 10 busbars;  
one longitudinal busbar connecting terminal 01480 and 01481 each is required for the connection of 100 x 10 busbars;  
two longitudinal busbar connecting terminals 01481 are required for the connection of 120 x 10 busbars

system mounting instruction: [www.woehner.com/en/products/01430.html](http://www.woehner.com/en/products/01430.html)

## CRITO®185Power CrossLink® - EQUES®185Power CrossLink® 630 A

universal solutions



### Connection module, 1-pole, CrossLink® clamp connection for drill-free mounting on the busbar system

Article	Type	Width	Pack size	Weight kg/100 u.	PG		Part No.
connection module	for direct cable connection, with 2 box terminals 300 mm <sup>2</sup>	98	1	133.0	07		01441
connection module	for lam. Cu max. 2x 80 x 10	98	1	94.5	07		01442
connection module	for 4 cable lugs M12	98	1	165.0	07		01443

### Cover cap, for connection module 98 mm wide, 1-pole

Article	Type	Width	Pack size	Weight kg/100 u.	PG		Part No.
cover cap incl. rear touch protection cover		130	1	28.0	07		01437



### Busbar adapter, 630 A, clamp connection for drill-free mounting on the busbar system, with and without CrossLink®185Power touch-safe protection module

Type	Rated current	Pack size	Weight kg/100 u.	PG		Part No.
connection at top, CrossLink® clamp connection	630 A	1	590.0	05		32741
connection at bottom, CrossLink® clamp connection	630 A	1	700.0	05		32745

all devices can be mounted directly on busbars 30, 40, 60, 80, 100, 120 x 10

## EQUES® 185Power CrossLink® - Busbar adapters 1200 A

aligned to circuit breakers



**Busbar adapter 1200 A, connection to the system at the top**, clamp connection for drill-free mounting on the busbar system, with and without **CrossLink®185Power** touch-safe protection module

### ABB

Type	Rated current	Pack size	Weight kg/100 u.	PG		Part No.
ABB Tmax T6, T7 (800 A), Emax E2 (800 A), Siemens 3VA27 (800 A)	800 A	1	2120.0	05		<b>32767</b>
ABB Tmax T7 (1000 A), Emax E2 (1000 A), Siemens 3VA27 (1000 A)	800 A	1	2100.0	05		<b>32766</b>
ABB Tmax T7 (1250 A), Emax E2 (1250 A), Siemens 3VA27 (1250 A)	1200 A	1	3010.0	05		<b>32765</b>
ABB Tmax T7 (1600 A), Emax E2 (1600 A), Siemens 3VA27 (1600 A)	1200 A	1	3150.0	05		<b>32807</b>

### Eaton

Eaton NZM4 (630 A, 800 A, 1000 A)	800 A	1	2300.0	05		32763
Eaton NZM4 (1250 A)	1200 A	1	2900.0	05		32762
Eaton NZM4 (1600 A), Siemens 3VL8 (1600 A)	1200 A	1	3060.0	05		32761

### Schneider Electric

Schneider Electric NS630B, NS800, NS1000	800 A	1	2620.0	05		32758
Schneider Electric NS1250	1200 A	1	3000.0	05		32757
Schneider Electric NS1600	1200 A	1	3100.0	05		32756

### Siemens

Eaton NZM4 (1600 A), Siemens 3VL8 (1600 A)	1200 A	1	3060.0	05		32761
Siemens 3VL5 (630 A)	800 A	1	2100.0	05		32769
Siemens 3VL6 (630 A, 800 A)	800 A	1	1950.0	05		32754
Siemens 3VL7 (1000 A)	800 A	1	2200.0	05		32755
Siemens 3VL7 (1250 A)	1200 A	1	2850.0	05		32753
Siemens 3VA25 (630 A, 800 A, 1000 A)	800 A	1	2200.0	05		<b>32707</b>
ABB Tmax T6, T7 (800 A), Emax E2 (800 A), Siemens 3VA27 (800 A)	800 A	1	2120.0	05		<b>32767</b>
ABB Tmax T7 (1000 A), Emax E2 (1000 A), Siemens 3VA27 (1000 A)	800 A	1	2100.0	05		<b>32766</b>
ABB Tmax T7 (1250 A), Emax E2 (1250 A), Siemens 3VA27 (1250 A)	1200 A	1	3010.0	05		<b>32765</b>
ABB Tmax T7 (1600 A), Emax E2 (1600 A), Siemens 3VA27 (1600 A)	1200 A	1	3150.0	05		<b>32807</b>

### Socomec

Socomec Sirco 1250 A (Socomec-Nr. 26003U21), Sirco 1600 A (Socomec-Nr. 26003U61)	1200 A	1	3350.0	05		32752
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all devices can be mounted directly on busbars 30, 40, 60, 80, 100, 120 x 10  
for further information on current carrying capacity, see product specifications at [www.woehner.com](http://www.woehner.com)



## EQUES® 185Power CrossLink® - Busbar adapters 1200 A

aligned to circuit breakers



**Busbar adapter 1200 A, connection to the system at the bottom**, clamp connection for drill-free mounting on the busbar system, with and without **CrossLink®185Power** touch-safe protection module

### ABB

Type	Rated current	Pack size	Weight kg/100 u.	PG		Part No.
ABB Tmax T6, T7 (800 A), Emax E2 (800 A), Siemens 3VA27 (800 A)	800 A	1	2300.0	05		<b>32730</b>
ABB Tmax T7 (1000 A), Emax E2 (1000 A), Siemens 3VA27 (1000 A)	800 A	1	2300.0	05		<b>32729</b>
ABB Tmax T7 (1250 A), Emax E2 (1250 A), Siemens 3VA27 (1250 A)	1200 A	1	3028.0	05		<b>32726</b>
ABB Tmax T7 (1600 A), Emax E2 (1600 A), Siemens 3VA27 (1600 A)	1200 A	1	3100.0	05		<b>32797</b>

### Eaton

Eaton NZM4 (630 A, 800 A, 1000 A)	800 A	1	2400.0	05		32733
Eaton NZM4 (1250 A)	1200 A	1	3180.0	05		32732
Eaton NZM4 (1600 A), Siemens 3VL8 (1600 A)	1200 A	1	2800.0	05		32731

### Schneider Electric

Schneider Electric NS630B, NS800, NS1000	800 A	1	2400.0	05		32747
Schneider Electric NS1250	1200 A	1	3200.0	05		32737
Schneider Electric NS1600	1200 A	1	3350.0	05		32734

### Siemens

Eaton NZM4 (1600 A), Siemens 3VL8 (1600 A)	1200 A	1	2800.0	05		32731
Siemens 3VL5 (630 A)	800 A	1	2150.0	05		32796
Siemens 3VL6 (630 A, 800 A)	800 A	1	2350.0	05		32795
Siemens 3VL7 (1000 A)	800 A	1	2200.0	05		32783
Siemens 3VL7 (1250 A)	1200 A	1	3100.0	05		32771
Siemens 3VA25 (630 A, 800 A, 1000 A)	800 A	1	2200.0	05		<b>32708</b>
ABB Tmax T6, T7 (800 A), Emax E2 (800 A), Siemens 3VA27 (800 A)	800 A	1	2300.0	05		<b>32730</b>
ABB Tmax T7 (1000 A), Emax E2 (1000 A), Siemens 3VA27 (1000 A)	800 A	1	2300.0	05		<b>32729</b>
ABB Tmax T7 (1250 A), Emax E2 (1250 A), Siemens 3VA27 (1250 A)	1200 A	1	3028.0	05		<b>32726</b>
ABB Tmax T7 (1600 A), Emax E2 (1600 A), Siemens 3VA27 (1600 A)	1200 A	1	3100.0	05		<b>32797</b>

### Socomec

Socomec Sirco 1250 A (Socomec-Nr. 26003U21), Sirco 1600 A (Socomec-Nr. 26003U61)	1200 A	1	3350.0	05		32764
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all devices can be mounted directly on busbars 30, 40, 60, 80, 100, 120 x 10  
for further information on current carrying capacity, see product specifications at [www.woehner.com](http://www.woehner.com)

## EQUES® 185Power CrossLink® - Busbar adapters 1200 A

aligned to circuit breakers



**Busbar adapter 1200 A, connection to the system at the bottom, phase rotation, clamp connection for drill-free mounting on the busbar system, with and without CrossLink®185Power touch-safe protection module**

### ABB

Type	Rated current	Pack size	Weight kg/100 u.	PG	Part No.
ABB Tmax T7 (1250 A), Emax E2 (1250 A), Siemens 3VA27 (1250 A)	1200 A	1	3000.0	05	32723
ABB Tmax T7 (1600 A), Emax E2 (1600 A), Siemens 3VA27 (1600 A)	1200 A	1	3230.0	05	32722

### Eaton

Eaton NZM4 (1250 A)	1200 A	1	3200.0	05	32788
Eaton NZM4 (1600 A)	1200 A	1	3300.0	05	32787

### Schneider Electric

Schneider Electric NS1250	1200 A	1	3000.0	05	32719
Schneider Electric NS1600	1200 A	1	3230.0	05	32718

### Siemens

Siemens 3VL7 (1250 A)	1200 A	1	3222.0	05	32739
Siemens 3VL8 (1600 A)	1200 A	1	3432.0	05	32738
ABB Tmax T7 (1250 A), Emax E2 (1250 A), Siemens 3VA27 (1250 A)	1200 A	1	3000.0	05	32723
ABB Tmax T7 (1600 A), Emax E2 (1600 A), Siemens 3VA27 (1600 A)	1200 A	1	3230.0	05	32722

### Accessories, cover IP20

Article	Type	Pack size	Weight kg/100 u.	PG	Part No.
IP20 Protection cover (front) for adapter, incl. 3 top covers	for ABB Tmax T6, T7	1	125.6	05	32700
	for Eaton NZM4, Legrand DPX <sup>3</sup> 1600, GE FK1600	1	123.8	05	32701
	for Schneider Electric NS630B - NS1600	1	122.8	05	32702
IP20 Protection cover (front) for adapter, incl. 3 top covers	for Siemens 3VL7, 3VL8	1	123.0	05	32703
	for Siemens 3VL5, 3VL6	1	128.0	05	32706
touch-safe protection shroud IP20 (rear installation)	for all adapters	1	9.0	05	32704

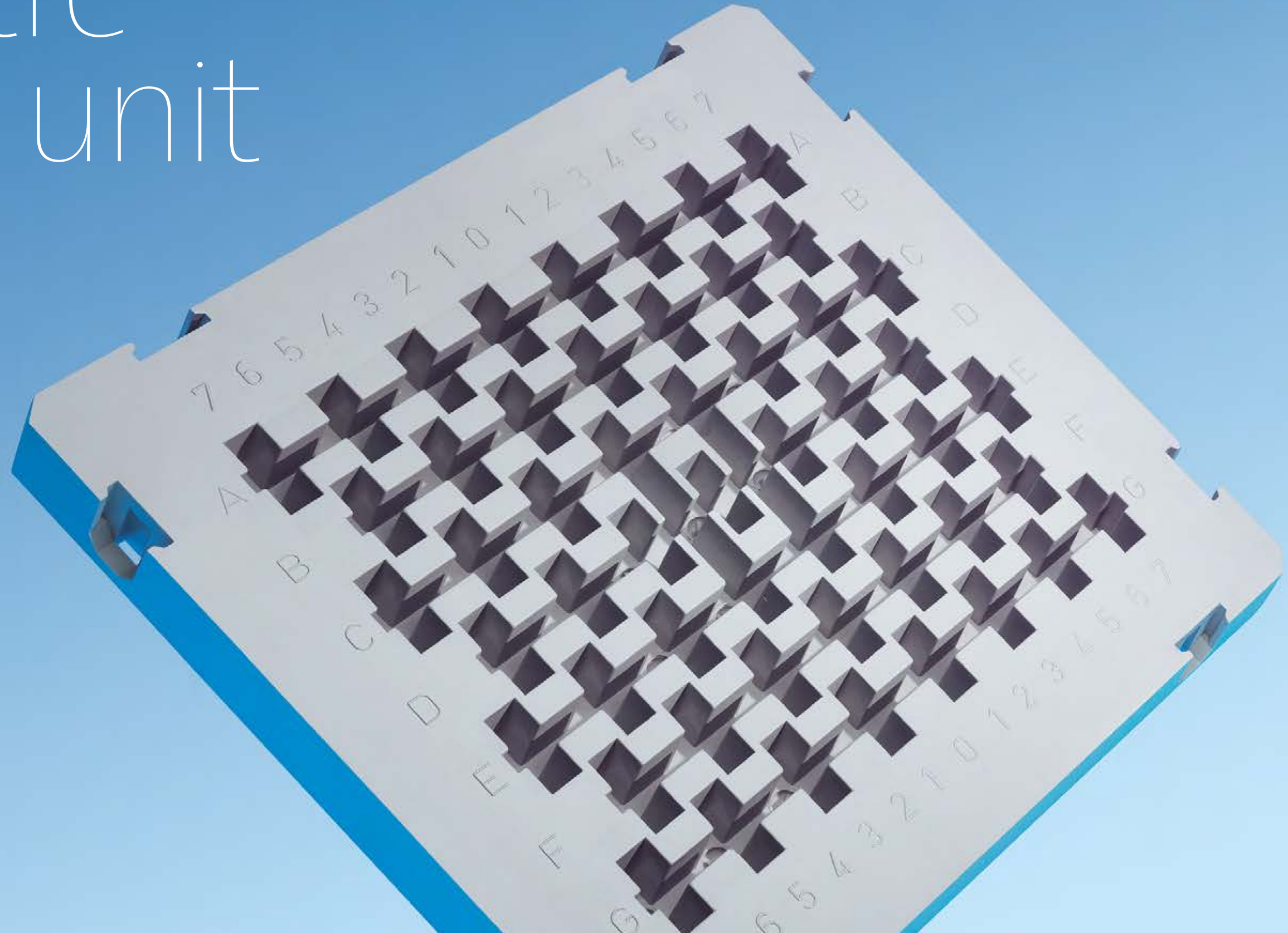
### Accessories, current transformer, accuracy class 1

Type	Rated apparent power	Pack size	Weight kg/100 u.	PG	Part No.
current transformer 630 A / 5 A	5.00 VA	1	14.0	23	32983
current transformer 800 A / 5 A	5.00 VA	1	14.0	23	32984
current transformer 1000 A / 5 A	5.00 VA	1	14.0	23	32985
current transformer 1250 A / 5 A	5.00 VA	1	14.0	23	32986
current transformer 1600 A / 5 A	5.00 VA	1	14.0	23	32987

depending on the adapter type, 1 or 2 current transformers can be used per phase; see adapter product description at [www.woehner.com](http://www.woehner.com)

all devices can be mounted directly on busbars 30, 40, 60, 80, 100, 120 x 10  
for further information on current carrying capacity, see product specifications at [www.woehner.com](http://www.woehner.com)

# Centre feed unit



## FEEDING SYSTEM

# Centre feed unit

## Feeding system with high variability and connection convenience

Centre feed unit up to 3000 A combines the advantages of high short-circuit capacity, drill-less mounting, brace terminal technology and a clearly structured design. The fuseless equipment practice of this feeding system puts high requirements on the short-circuit capacity. The busbar supports have been designed specifically for this purpose. This also concerns the large

number of connection options for copper and aluminium conductors – whether for round conductors or laminated and solid flat conductor connections. Industrial production and type tests ensure compliance with the required safety standards. The current rating and short-circuit capacity up to 100 kA determined via the type test meet the demanding requirements for this feeding system.





## Double-T, triple-T and TCC section busbars

These well-established section busbars provide safe transmission of currents up to 3000 A. Double-T and triple-T section busbars can be connected on both sides.

Versions:

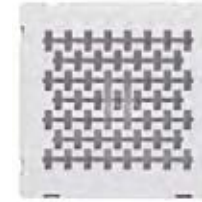
- double-T section busbar
- triple-T section busbar
- TCC section busbar



## CRITO® connection technology

These solutions provide for convenient connection of round conductors, flat conductors and cable lugs. Currents up to 3000 A can be brought to the busbar by the individual components.

- brace terminal technology
- round sector and flat conductor
- UL listed



## Busbar supports multi-pole

The busbar supports are suitable for 3- or 4-pole systems.

- variable configurations
- double-T and triple-T sections busbars can be used



## Busbar support 1-pole

The 1-pole lateral busbar support can also accommodate the TCC section busbars.

- variable configurations
- double-T, triple-T and TCC section busbars can be used

## Centre feed units

with double-T and Triple-T section busbar



### Centre feed unit

Cabinet width	Mounting dimensions	Busbar length	Rated current	Pack size	Weight kg/100 u.	PG	Part No.
for cabinet width 600 mm	488 - 563	453	1200 A	1	1434.0	11	35007
for cabinet width 800 mm	688 - 763	653	1200 A	1	1716.0	11	35006
for cabinet width 600 mm	488 - 563	453	1400 A	1	1716.0	11	35005
for cabinet width 800 mm	688 - 763	653	1400 A	1	2488.0	11	35004
for cabinet width 600 mm	488 - 563	453	1800 A	1	2200.0	11	35015
for cabinet width 800 mm	688 - 763	653	1800 A	1	2940.0	11	35016

### Universal conductor connection terminal 16 mm<sup>2</sup> to 120 mm<sup>2</sup>, AWG 6 - 250 MCM

For busbar	Connection min. - max.	Terminal space W x H	Rated current	Pack size	Weight kg/100 u.	PG	Part No.
flat busbars 10 mm and section busbars	16 - 120 mm <sup>2</sup> , AWG 4 - 250 MCM	17 x 15	255 A	25	10.9	07	01203

### Brace terminal for round conductors up to 300 mm<sup>2</sup> / 600 MCM

For busbar	Connection min. - max.	Rated current	Pack size	Weight kg/100 u.	PG	Part No.
20, 25, 30 x 5, 10 and section busbars	Cu 95 - 185 mm <sup>2</sup> , AWG 3/0 - 350 MCM	310 A	6	31.2	07	01318
20, 25, 30 x 5, 10 and section busbars *	Cu 95 - 300 mm <sup>2</sup> , 250 - 600 MCM	420 A	3	42.5	07	01760

\* when using aluminium conductors, observe the maintenance instructions (see chapter 8.2 - Appendix, subsection "Conductor connections")

### Profile terminal, for double-T section busbar, connection at front and back of section busbar

Connection cross-section	Rated current	Terminal space W x H	Pack size	Weight kg/100 u.	PG	Part No.
320 - 800 mm <sup>2</sup>	1200 A	41 x 20 - 42	3	67.0	07	01185
500 - 750 mm <sup>2</sup>	1200 A	51 x 5 - 28	3	70.5	07	01906
600 - 900 mm <sup>2</sup>	1400 A	64 x 5 - 28	3	84.0	07	01907
500 - 1000 mm <sup>2</sup>	1200 A	51 x 20 - 42	3	73.5	07	01936
600 - 1200 mm <sup>2</sup>	1400 A	64 x 20 - 42	3	85.9	07	01911
800 - 1600 mm <sup>2</sup>	1800 A	81 x 20 - 42	3	101.1	07	01934
1000 - 2000 mm <sup>2</sup>	1800 A	101 x 20 - 42	3	113.7	07	01935

### Profile terminal, or triple-T-section busbar, connection at front and back of section busbar

Connection cross-section	Rated current	Terminal space W x H	Pack size	Weight kg/100 u.	PG	Part No.
320 - 800 mm <sup>2</sup>	1200 A	41 x 23 - 45	3	105.0	07	01513
500 - 1260 mm <sup>2</sup>	1400 A	64 x 23 - 45	3	124.0	07	01008
1200 - 3600 mm <sup>2</sup>	1800 A	101 x 23 - 45	3	172.7	07	01186

for the connection of flat busbars and laminated copper busbars

## Centre feed units

with double-T and triple-T section busbar



### Brace terminal, 55 to 105 mm wide, for flat conductors

For busbar	Terminal space	Rated current	Pack size	Weight kg/100 u.	PG	Part No.
30 x 10 and section busbars	55 x 10 - 28	1200 A	3	50.0	07	01069
30 x 10 and section busbars	68 x 10 - 28	1400 A	3	63.0	07	01070
30 x 10 and section busbars	105 x 10 - 28	1800 A	3	84.0	07	01071

for the connection of flat busbars and laminated copper busbars

### Component, for individual mounting

Article	Type	Pack size	Weight kg/100 u.	PG	Part No.
busbar support, lateral	for centre feed unit with double T and triple T busbars	2	458.0	11	35008
busbar support, 4-pole, centre	for centre feed unit with double T busbars	1	458.0	11	35009
busbar support, 3-pole, centre	for centre feed unit with triple T busbars	1	458.0	11	35001
additional cover holder	for centre feed unit	4	1.4	11	35017

### Section busbar, copper

Article	Type	Rated current	Pack size	Weight kg/100 u.	PG	Part No.
double-T section busbar 500 mm <sup>2</sup>	length 453 mm, tinned	1200 A	1	200.6	06	01225
double-T section busbar 500 mm <sup>2</sup>	length 650 mm, tinned	1200 A	1	288.1	06	01226
double-T section busbar 720 mm <sup>2</sup>	length 453 mm, tinned	1400 A	1	293.3	06	01838
double-T section busbar 720 mm <sup>2</sup>	length 653 mm, tinned	1400 A	1	424.0	06	01831
triple-T section busbar 1140 mm <sup>2</sup>	length 453 mm, tinned	1800 A	1	464.0	06	01188
triple-T section busbar 1140 mm <sup>2</sup>	length 653 mm, tinned	1800 A	1	672.3	06	01189

for current carrying capacity of the busbars visit [www.woehner.com](http://www.woehner.com)



## Centre feed units

Components for TCC section busbars



### Busbar holder, 1-pole, lateral

Type	Pack size	Weight kg/100 u.	PG	Part No.
for section busbars	6	11.0	06	<b>01369</b>

### Section busbar, copper, tin-plated

Type	Length	Pack size	Weight kg/100 u.	PG	Part No.
TCC section busbar 1600 mm <sup>2</sup>	2400	1	3416.0	06	<b>01610</b>

for the connection of flat busbars and laminated copper busbars

### Connection screw, with nut and spring washer for TCC section busbars

Type	Connection	Pack size	Weight kg/100 u.	PG	Part No.
hammer-head screw for TCC-profile, with nut and spring washer	M10 x 45	12	5.1	07	<b>01379</b>
bolt for TCC-profile, with nut and spring washer	M12 x 60	12	9.1	07	<b>01380</b>

### Brace terminal, 3/0 to 600 MCM, for round conductors

For busbar	Connection	Rated current	Pack size	Weight kg/100 u.	PG	Part No.
20, 25, 30 x 5, 10 and section busbars *	Cu 95 - 185 mm <sup>2</sup> , AWG 3/0 - 350 MCM	310 A	6	31.2	07	<b>01318</b>
20, 25, 30 x 5, 10 and section busbars *	Cu 95 - 300 mm <sup>2</sup> , 250 - 600 MCM	420 A	3	42.5	07	<b>01760</b>

for the connection of flat busbars and laminated copper busbars

\* when using aluminium conductors, observe the maintenance instructions (see chapter 8.2 - Appendix, subsection "Conductor connections")

### Brace terminal, 30 to 105 mm wide, for flat conductors

For busbar	Terminal space	Rated current	Pack size	Weight kg/100 u.	PG	Part No.
20, 25, 30 x 5, 10 and section busbars	30 x 20	800 A	6	30.3	07	<b>01319</b>
	32 x 20	800 A	3	34.7	07	<b>01759</b>
30 x 10 and section busbars	55 x 10 - 28	1200 A	3	50.0	07	<b>01069</b>
	68 x 10 - 28	1400 A	3	63.0	07	<b>01070</b>
	105 x 10 - 28	1800 A	3	84.0	07	<b>01071</b>

# Panel



DEVICES FOR PANEL MOUNTED AND DIN RAIL

# Panel

## Components for conventional mounting

For conventional wiring, Wöhner provides a comprehensive range of components for DIN rail or mounting plate assembly. The fuse technology and associated connection technology meet the high safety and quality requirements set by international standards.

Thanks to their snap-action switch mechanisms, the switching devices offer high switching capacity and special protection via operator-independent switching. Selected products are ideal for special applications in the field of photovoltaics.





## CAPUS®Panel

- Product series of small load switches.
- switch-disconnectors from 16 A - 160 A
  - 3-pole version
  - optional door coupling rotary drives
  - UL listed



## SECUR®Panel

- The SECUR® fuse-holder especially for photovoltaic applications allows convenient fuse changes by means of a removable fuse carrier. Contacts in the carrier also feature touch-safe protection.
- for 10x85 (14x85) fuses up to 1500 V DC
  - equipment width 22.5 mm
  - UL listed



## AMBUS®Panel

- The holder for cylindrical fuses is available in 1-, 2- and 3-pole versions as well versions with a neutral conductor, LED, auxiliary switch and for semiconductor protection.
- 32 A (10x38), 50 A (14x51), 100 A (22x58)
  - rated voltage to 690 V
  - touch-safe protection
  - photovoltaic versions to 1000 V DC are also UL listed



## AMBUS®Panel UL version

- Versions for Class CC to 30 A and Class J to 60 A fuses according to UL 248-4 / -8. All products are provided with touch-safe protection and convenient connection technology.
- short-circuit capacity up to 200 kA
  - rated voltage 600 V
  - versions available with LED as fuse indicator



## QUADRON®Panel

- Class J fuse-holder with CrossLink® Technology. Springloaded for secure connection, tool-free installation, easily change outgoing direction.
- for Class J fuses up to 400 A
  - integrated fuse adaptor for ease of use
  - UL listed



## MOTUS®Panel

- The MOTUS® hybrid motor starter can supply motors up to 4 kW. The integrated functions - direct and reversing starter, overload protection and emergency switch-off - lead to a significant reduction in space and wiring requirements.
- 3 design versions: 0.6 A, 2.4 A and 9 A
  - equipment width 22.5 mm
  - up to 30 mil. switching cycles
  - versions with IO-Link interface
  - UL listed

## MOTUS®Panel - Hybrid motor starters

for switching of inductive loads



**Hybrid motor starter**, with reversing function and CrossLink®Technology, 22.5 mm wide for mounting on mounting rails TH35 acc. to EN 60715

Type	Width	Height	Depth	Pack size	Weight kg/100 u.	PG	Part No.
0.075 - 0.6 A direct and reversing starter	22.5	175	138	1	58.1	21	36100
0.18 - 2.4 A direct and reversing starter	22.5	175	138	1	58.5	21	36103
1.5 - 6.5 A direct and reversing starter	22.5	175	138	1	59.2	21	36106

**Hybrid motor starter IO-Link**, 3-pole, with reversing function, **CrossLink®Technology** and **communication interface**, 22.5 mm wide, for mounting on mounting rails TH35 acc. to IEC / EN 60715

Type	Width	Height	Depth	Pack size	Weight kg/100 u.	PG	Part No.
IO-Link 0.18 - 3 A direct and reversing starter	22.5	175	138	1	59.2	21	36123
IO-Link 1.5 - 6.5 A direct and reversing starter				1	59.2	21	36126

### Accessories

connecting plug with cable connection, 2 units	1	7.6	21	36902
connecting plug with cable connection, 3 units	1	9.0	21	36903
connecting plug with cable connection, 4 units	1	10.9	21	36904

### Replacement component

electronic unit 0.075 - 0.6 A direct and reversing starter	1	50.9	21	36109
electronic unit 0.18 - 2.4 A direct and reversing starter	1	50.7	21	36110
electronic unit 1.5 - 6.5 A direct and reversing starter	1	51.4	21	36111
adapter for MOTUS®Panel	1	12.8	05	36112
fuse 16 A for version 0.6 A and 2.4 A	3	2.8	21	31567
fuse 20 A for version 6.5 A	3	2.8	21	31568
fuse 30 A for version 6.5 A for motors with heavy-duty starting	3	2.8	21	31569



### Power distribution blocks

Type	Width	Height	Pack size	Weight kg/100 u.	PG	Part No.
1x line AWG 14 - 3, 6x load AWG 14 - 8	36	90	1	11.9	08	02321
1x line AWG 14 - 1, 6x load AWG 14 - 4	36	90	1	11.3	08	02322
1x line AWG 14 - 2/0, 4x load AWG 14 - 2	36	99	1	14.4	08	02323
1x line AWG 2 - 250 MCM, 6x load AWG 14 - 2	54	114	1	27.4	08	02324
1x line AWG 2/0 - 500 MCM, 6x load AWG 14 - 2	54	114	1	32.6	08	02325

## AMBUS®Panel - Fuse-holders for fuses Class CC

type AES with box terminals, with touch-safe protection in accordance with EN 50274, for fuses that conform to UL 248-4



### Class CC fuse-holder

Type	Poles	Connection	Width	Pack size	Weight kg/100 u.	PG	Part No.
30 A / 600 V	1-pole	0.75 - 25 mm <sup>2</sup> / AWG 18 - 4	18	12	5.5	17	31295
	2-pole		36	6	11.3	17	31296
	3-pole		54	4	17.0	17	31297

### Class CC fuse-holder, with LED 110 - 690 V AC / DC

30 A / 600 V	1-pole	0.75 - 25 mm <sup>2</sup> / AWG 18 - 4	18	12	6.2	17	31298
30 A / 600 V	2-pole		36	6	12.3	17	31299
30 A / 600 V	3-pole		54	4	18.5	17	31300

LED signals open fuse

### Class CC fuse-holder, with LED 12 - 72 V AC / DC

30 A / 12 - 72 V	1-pole	0.75 - 25 mm <sup>2</sup> / AWG 18 - 4	18	12	6.2	17	31929
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LED signals open fuse

### Comb-type busbar, length 1 m

Type	Cross-section mm <sup>2</sup>	Rated current	Pack size	Weight kg/100 u.	PG	Part No.
comb-type busbar, 1-pole, bridge type, pitch 18 mm	25	100 A	10	47.5	06	31548
comb-type busbar, 2-pole, bridge type, pitch 18 mm		100 A	10	81.0	06	31561
comb-type busbar, 3-pole, bridge type, pitch 18 mm		100 A	10	113.3	06	31549

### Feeder terminal, 1 pol

Article	Type	Connection	Rated current	Pack size	Weight kg/100 u.	PG	Part No.
direct feeding of the comb-type busbar	31548, 31549, 31561	6 - 35	115 A	10	3.0	07	31562

### Connection terminal, for comb-type busbars

Type	Connection	Pack size	Weight kg/100 u.	PG	Part No.
for 31548	6 - 35 mm <sup>2</sup> / AWG 10 - 1/0	10	3.0	07	31039
for 31549, 31561	6 - 35 mm <sup>2</sup> , AWG 10 - 1/0	10	3.5	07	31550

a connection terminal is required for each phase

### End cover, for comb-type busbars

Type	Pack size	Weight kg/100 u.	PG	Part No.
for 1-pole comb-type busbars 25 mm <sup>2</sup>	20	0.1	06	31042
for 2-pole and 3-pole comb-type busbars 25 mm <sup>2</sup>	20	0.2	06	31552

## AMBUS®Panel - QUADRON®Panel - Fuse-holders for fuses Class J

with touch-safe protection, for fuses that comply with UL 248-4



### Class J fuse-holder, AMBUS®Panel, DIN rail mounted

Type	Poles	Connection	Width	Pack size	Weight kg/100 u.	PG	Part No.
30 A / 600 V	1-pole	0.75 - 50 mm <sup>2</sup> / AWG 18 - 1	36	6	15.8	16	31284
	2-pole		72	3	32.2	16	31285
	3-pole		108	2	48.6	16	31287
60 A / 600 V	1-pole	2.5 - 50 mm <sup>2</sup> / AWG 14 - 1	40	6	18.2	16	31920
	2-pole		80	3	37.0	16	31921
	3-pole		120	2	55.9	16	31922

### Class J fuse-holder, AMBUS®Panel, DIN rail mounted, with LED 110 - 600 V AC / DC

Type	Poles	Connection	Width	Pack size	Weight kg/100 u.	PG	Part No.
30 A / 600 V	1-pole	0.75 - 50 mm <sup>2</sup> / AWG 18 - 1	36	6	15.8	16	31932
	2-pole		72	3	32.2	16	31933
	3-pole		108	2	48.6	16	31934
60 A / 600 V	1-pole	2.5 - 50 mm <sup>2</sup> / AWG 14 - 1	40	6	18.2	16	31923
	2-pole		80	3	37.0	16	31924
	3-pole		120	2	55.9	16	31925

### Class J fuse-holder, QUADRON®Panel, for screwing onto mounting plate

Type	Poles	Connection	Width	Pack size	Weight kg/100 u.	PG	Part No.
100 A / 600 V *	3-pole	4 - 50 mm <sup>2</sup> / AWG 14 - 2/0	106	1	107.0	16	33408
200 A / 600 V *		35 - 150 mm <sup>2</sup> / AWG 2 - 300 MCM	184	1	203.0	16	33409
400 A / 600 V		25 - 300 mm <sup>2</sup> / AWG 4 - 600 MCM	256	1	672.0	16	33308

\* do not use fuse links with sharp-edged blades

## AMBUS®Panel - Fuse-holders for IEC cylindrical fuses

type AES with box terminals, for fuse-links acc. to IEC / HD 60269-2, with touch-safe protection in accordance with EN 50274



### Fuse-holder for cylindrical fuses, standard version

Type	Rated current	Poles	Connection	Width	Pack size	Weight kg/100 u.	PG	Part No.
10x38	30 A	1-pole	0.75 - 25 mm <sup>2</sup> / AWG 18 - 4	18	12	5.2	17	31110
		2-pole		36	6	10.3	17	31112
		3-pole		54	4	15.5	17	31113
14x51	50 A	1-pole	1.5 - 35 mm <sup>2</sup> / AWG 14 - 2	27	6	9.7	17	31115
		2-pole		54	3	20.2	17	31117
		3-pole		81	2	30.4	17	31118
22x58	80 A	1-pole	4 - 50 mm <sup>2</sup> / AWG 10 - 1/0	36	6	15.8	17	31120
		2-pole		72	3	32.2	17	31122
		3-pole		108	2	48.6	17	31123

### Fuse-holder for cylindrical fuses, standard version with LED 110 - 690 V AC / DC

Type	Rated current	Poles	Connection	Width	Pack size	Weight kg/100 u.	PG	Part No.
10x38	30 A	1-pole	0.75 - 25 mm <sup>2</sup> / AWG 18 - 4	18	12	5.7	17	31130
		2-pole		36	6	11.3	17	31132
		3-pole		54	4	17.0	17	31133
14x51	50 A	1-pole	1.5 - 35 mm <sup>2</sup> / AWG 14 - 2	27	6	9.8	17	31135
		3-pole		81	2	30.5	17	31138
		3-pole		81	2	30.5	17	31138
22x58	80 A	1-pole	4 - 50 mm <sup>2</sup> / AWG 10 - 1/0	36	6	15.9	17	31140
		3-pole		108	2	48.7	17	31143
		3-pole		108	2	48.7	17	31143

### Fuse-holder for cylindrical fuses, standard version with LED 12 - 72 V AC / DC

Type	Rated current	Poles	Connection	Width	Pack size	Weight kg/100 u.	PG	Part No.
10x38	30 A	1-pole	0.75 - 25 mm <sup>2</sup> / AWG 18 - 4	18	12	5.7	17	31930

LED signals open fuse

### Fuse-holder for cylindrical fuses, standard version, neutral conductor on right

Type	Rated current	Poles	Connection	Width	Pack size	Weight kg/100 u.	PG	Part No.
10x38	30 A	1-pole+N	0.75 - 25 mm <sup>2</sup> / AWG 18 - 4	36	6	11.3	17	31111
		3-pole+N		72	3	21.7	17	31114
14x51	50 A	1-pole+N	1.5 - 35 mm <sup>2</sup> / AWG 14 - 2	54	3	21.8	17	31116
		3-pole+N		108	1	42.7	17	31119
22x58	80 A	1-pole+N	4 - 50 mm <sup>2</sup> / AWG 10 - 1/0	72	3	35.8	17	31121
		3-pole+N		144	1	67.5	17	31124

### Fuse-holder for cylindrical fuses, standard version, neutral conductor on left

Type	Rated current	Poles	Connection	Width	Pack size	Weight kg/100 u.	PG	Part No.
14x51	50 A	3-pole+N	1.5 - 35 mm <sup>2</sup> / AWG 14 - 2	108	1	42.7	17	31168
22x58	80 A	3-pole+N	4 - 50 mm <sup>2</sup> / AWG 10 - 1/0	144	1	67.5	17	31171

### N-module

Type	Rated current	Poles	Connection	Width	Pack size	Weight kg/100 u.	PG	Part No.
10x38	30 A	N	0.75 - 25 mm <sup>2</sup> / AWG 18 - 4	18	12	6.2	17	31258

## AMBUS®Panel - Fuse-holders for IEC cylindrical fuses

type AES with box terminals, for fuse-links acc. to IEC / HD 60269-2 -4, -6, with touch-safe protection in accordance with EN 50274



### Fuse-holder for cylindrical fuses, version for semiconductor protection fuses

Type	Rated current	Poles	Connection	Width	Pack size	Weight kg/100 u.	PG	Part No.
10x38	30 A	1-pole	0.75 - 25 mm <sup>2</sup> / AWG 18 - 4	18	12	5.2	17	31275
		2-pole		36	6	10.3	17	31276
		3-pole		54	4	15.5	17	31277
14x51	50 A	1-pole	1.5 - 35 mm <sup>2</sup> / AWG 14 - 2	27	6	9.7	17	31278
		2-pole		54	3	20.2	17	31279
		3-pole		81	2	30.4	17	31280
22x58	80 A	1-pole	4 - 50 mm <sup>2</sup> / AWG 10 - 1/0	36	6	15.8	17	31281
		2-pole		72	3	32.2	17	31282
		3-pole		108	2	48.6	17	31283

### Fuse-holder for cylindrical fuses, version for semiconductor protection fuses, with pilot switch

14x51	50 A	1-pole	1.5 - 35 mm <sup>2</sup> / AWG 14 - 2	27	6	11.6	17	31940
14x51		2-pole		54	3	23.5	17	31972
14x51		3-pole		81	2	34.6	17	31941
22x58	80 A	1-pole	4 - 50 mm <sup>2</sup> / AWG 10 - 1/0	36	6	18.1	17	31942
22x58		2-pole		72	3	36.6	17	31957
22x58		3-pole		108	2	54.1	17	31943

pilot switch indicates when no fuse is inserted, holder is open, or fuse (with striker) is open

## AMBUS®Panel - QUADRON®Panel - Photovoltaic fuse holders and fuse bases

for PV



### Fuse-holder for cylindrical fuses, photovoltaic version, 1000 V

10x38 / 1P	30 A	1-pole	0.75 - 25 mm <sup>2</sup> / AWG 18 - 4	18	12	5.2	17	31971
10x38 / 1P / LED *		1-pole		18	12	5.7	17	31973
10x38 / 2P		2-pole		36	6	10.3	17	31974

\* LED indicates open fuse, operating range 400 - 1000 V

### Fuse-holder for cylindrical fuses, photovoltaic version, 1500 V

10x85 *	30 A	1-pole	0.75 - 25 mm <sup>2</sup> / AWG 18 - 4	22.5	5	9.2	17	31555
22x58	80 A	1-pole	4 - 50 mm <sup>2</sup> / AWG 10 - 1/0	36	6	15.8	17	31021

\* also suitable for 14x85 fuses



### NH fuse-base for photovoltaic, 1-pole, with touch-safe protection, screw on both sides, 1000 V AC / 1500 V DC

Type	Rated current	Rated voltage	Size	Pack size	Weight kg/100 u.	PG	Part No.
both sides screw M10	250 A	1500 V	NH 1XL	3	51.0	10	03290
both sides screw M12 *	600 A		NH 2XL / 3L	3	106.0	10	03294

\* for fuse-link NH 2XL or NH 3L in accordance with IEC 60269-6 with max. 100 W power dissipation

### NH fuse-base for photovoltaic, 1-pole, with touch-safe protection, 1000 V AC / 1500 V DC

incoming connection screw M10, outgoing connection to busbar 2x 30 x 10	250 A	1500 V	NH 1XL	3	58.0	10	03289
incoming connection screw M10, outgoing connection to busbar 2x 40 x 10 *	600 A	1500 V	NH 2XL / 3L	3	110.0	10	03293

\* for fuse-link NH 2XL or NH 3L in accordance with IEC 60269-6 with max. 100 W power dissipation; information on rated load factors with regard to current carrying capacity is available on request or at [www.woehner.com](http://www.woehner.com)

## CAPUS® Panel - Switch-disconnectors 3-pole 16 A - 160 A

type SD1, SD2, SD3; clip-on mounting on rail TH 35 mm to EN 60715



### Switch-disconnector, 3-pole, with rotary handle graphite grey

Article	Type	Rated current	Dimensions	Pack size	Weight kg/100 u.	PG	Part No.
box terminal 2.5 - 16 mm <sup>2</sup> / AWG 16 - 6, graphite grey handle	SD1-3-16	16 A	36 x 81 x 79	1	15.5	14	<b>33808</b>
box terminal 2.5 - 16 mm <sup>2</sup> / AWG 16 - 6, graphite grey handle	SD1-3-25	25 A	36 x 81 x 79	1	15.5	14	<b>33812</b>
box terminal 2.5 - 16 mm <sup>2</sup> / AWG 16 - 6, graphite grey handle	SD1-3-32	32 A	36 x 81 x 79	1	15.5	14	<b>33816</b>
box terminal 2.5 - 16 mm <sup>2</sup> / AWG 16 - 6, graphite grey handle	SD1-3-40	40 A	36 x 81 x 79	1	15.5	14	<b>33820</b>
box terminal 16 - 50 mm <sup>2</sup> / AWG 6 - 1, graphite grey handle	SD2-3-63	63 A	52 x 100 x 80	1	26.5	14	<b>33868</b>
box terminal 16 - 50 mm <sup>2</sup> / AWG 6 - 1, graphite grey handle	SD2-3-80	80 A	52 x 100 x 80	1	26.5	14	<b>33872</b>
box terminal 16 - 50 mm <sup>2</sup> / AWG 6 - 1, graphite grey handle	SD2-3-100	100 A	52 x 100 x 80	1	26.5	14	<b>33876</b>
box terminal 50 - 70 mm <sup>2</sup> / AWG 1 - 3/0, graphite grey handle	SD3-3-125	125 A	66 x 113 x 81	1	39.5	14	<b>33027</b>
box terminal 50 - 70 mm <sup>2</sup> / AWG 1 - 3/0, graphite grey handle	SD3-3-160	160 A	66 x 113 x 81	1	39.5	14	<b>33031</b>



### Switch-disconnector, 3-pole, with rotary handle red-yellow

box terminal 2.5 - 16 mm <sup>2</sup> / WG 16 - 6, yellow-red handle	SD1-3-16		36 x 81 x 79	1	15.5	14	<b>33838</b>
box terminal 2.5 - 16 mm <sup>2</sup> / WG 16 - 6, yellow-red handle	SD1-3-25		36 x 81 x 79	1	15.5	14	<b>33842</b>
box terminal 2.5 - 16 mm <sup>2</sup> / WG 16 - 6, yellow-red handle	SD1-3-32		36 x 81 x 79	1	15.5	14	<b>33846</b>
box terminal 2.5 - 16 mm <sup>2</sup> / WG 16 - 6, yellow-red handle	SD1-3-40		36 x 81 x 79	1	15.5	14	<b>33850</b>
box terminal 16 - 50 mm <sup>2</sup> / AWG 6 - 1, yellow-red handle	SD2-3-63		52 x 100 x 80	1	26.5	14	<b>33884</b>
box terminal 16 - 50 mm <sup>2</sup> / AWG 6 - 1, yellow-red handle	SD2-3-80		52 x 100 x 80	1	26.5	14	<b>33888</b>
box terminal 16 - 50 mm <sup>2</sup> / AWG 6 - 1, yellow-red handle	SD2-3-100		52 x 100 x 80	1	26.5	14	<b>33892</b>
box terminal 50 - 70 mm <sup>2</sup> / AWG 1 - 3/0, yellow-red handle	SD3-3-125		66 x 113 x 81	1	39.5	14	<b>33035</b>
box terminal 50 - 70 mm <sup>2</sup> / AWG 1 - 3/0, yellow-red handle	SD3-3-160		66 x 113 x 81	1	39.5	14	<b>33040</b>

## CAPUS® Panel - Handles and accessories

for switch-disconnector type SD1, SD2, SD3



### Rotary handle

Article	Type	Pack size	Weight kg/100 u.	PG	Part No.
black, with door inter-locking	SD1, SD2, SD3	1	5.5	14	<b>33665</b>
red-yellow, with door inter-locking	SD1, SD2, SD3	1	5.5	14	<b>33666</b>
black, with defeatable door inter-locking	SD1, SD2, SD3	1	10.5	14	<b>33669</b>
red-yellow, with defeatable door inter-locking	SD1, SD2, SD3	1	10.5	14	<b>33670</b>



### Extension shaft

extension shaft, length 100 mm	SD1, SD2, SD3	1	2.0	14	<b>33680</b>
extension shaft, length 200 mm	SD1, SD2, SD3	1	3.6	14	<b>33681</b>
extension shaft, length 300 mm	SD1, SD2, SD3	1	5.4	14	<b>33682</b>



### Pilot switch, for monitoring the switch setting

1 n/c + 1 n/o, screw terminal	SD1, SD2, SD3	1	4.3	14	<b>33692</b>
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### Connection space cover

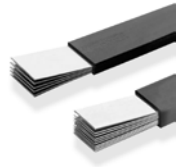
set connection space cover 3-pole	SD1-3, SD1-4	1	1.8	14	<b>33694</b>
set connection space cover 3-pole	SD2-3, SD2-4	1	2.2	14	<b>33695</b>
set connection space cover 3-pole	SD3-3, SD3-4	1	3.4	14	<b>33696</b>



# Accessories



## Laminated copper busbars

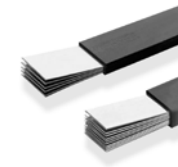


### Laminated copper busbar, tin-plated, insulated (105°C), length 3 m

Dimensions (number of laminates x width x thickness)	Cross-section mm <sup>2</sup>	Rated current for 50 K	Rated current for 65 K	Pack size	Weight kg/100 u.	PG	Part No.
2x 9 x 0.8	14.4	135 A	160 A	1	67.6	06	<b>01503</b>
3x 9 x 0.8	21.6	165 A	195 A	1	87.0	06	<b>01083</b>
6x 9 x 0.8	43.2	255 A	295 A	1	150.6	06	<b>01084</b>
9x 9 x 0.8	64.8	330 A	385 A	1	213.2	06	<b>01504</b>
2x 13 x 0.5	13	140 A	160 A	1	70.3	06	<b>01505</b>
3x 13 x 0.5	19.5	170 A	195 A	1	88.5	06	<b>01506</b>
4x 13 x 0.5	26	200 A	230 A	1	107.0	06	<b>01521</b>
6x 13 x 0.5	39	250 A	285 A	1	143.3	06	<b>01146</b>
10x 13 x 0.5	65	330 A	385 A	1	217.3	06	<b>01522</b>
2x 15.5 x 0.8	24.8	200 A	230 A	1	107.0	06	<b>01523</b>
3x 15.5 x 0.8	37.2	250 A	290 A	1	142.9	06	<b>01524</b>
4x 15.5 x 0.8	49.6	295 A	340 A	1	177.4	06	<b>01089</b>
6x 15.5 x 0.8	74.4	375 A	430 A	1	246.8	06	<b>01090</b>
8x 15.5 x 0.8	99.2	430 A	500 A	1	316.2	06	<b>01525</b>
10x 15.5 x 0.8	124	510 A	590 A	1	385.6	06	<b>01091</b>
2x 20 x 1	40	280 A	320 A	1	156.5	06	<b>01446</b>
3x 20 x 1	60	345 A	400 A	1	211.8	06	<b>01062</b>
4x 20 x 1	80	410 A	470 A	1	267.2	06	<b>01447</b>
5x 20 x 1	100	465 A	535 A	1	322.5	06	<b>01448</b>
6x 20 x 1	120	515 A	595 A	1	377.8	06	<b>01063</b>
8x 20 x 1	160	585 A	685 A	1	489.0	06	<b>01449</b>
10x 20 x 1	200	705 A	810 A	1	599.6	06	<b>01064</b>
2x 24 x 1	48	325 A	375 A	1	186.0	06	<b>01450</b>
3x 24 x 1	72	400 A	465 A	1	252.2	06	<b>01451</b>
4x 24 x 1	96	470 A	545 A	1	317.1	06	<b>01452</b>
5x 24 x 1	120	535 A	615 A	1	382.8	06	<b>01075</b>
6x 24 x 1	144	590 A	680 A	1	449.1	06	<b>01453</b>
8x 24 x 1	192	700 A	810 A	1	581.1	06	<b>01519</b>
10x 24 x 1	240	800 A	925 A	1	712.1	06	<b>01076</b>
2x 32 x 1	64	410 A	475 A	1	242.2	06	<b>01454</b>
3x 32 x 1	96	510 A	585 A	1	330.2	06	<b>01455</b>
4x 32 x 1	128	595 A	685 A	1	416.9	06	<b>01456</b>
5x 32 x 1	160	670 A	775 A	1	503.9	06	<b>01095</b>
6x 32 x 1	192	740 A	855 A	1	591.0	06	<b>01457</b>
8x 32 x 1	256	870 A	1000 A	1	765.2	06	<b>01458</b>
10x 32 x 1	320	985 A	1135 A	1	939.8	06	<b>01096</b>

Version 1.5 m long on request;  
the pure copper weight is given, this does not include the weight of the insulation.

## Laminated copper busbars



### Laminated copper busbar, tin-plated, insulated (105°C), length 3 m

Dimensions (number of laminates x width x thickness)	Cross-section mm <sup>2</sup>	Rated current for 50 K	Rated current for 65 K	Pack size	Weight kg/100 u.	PG	Part No.
2x 40 x 1	80	495 A	575 A	1	298.9	06	<b>01526</b>
3x 40 x 1	120	615 A	705 A	1	407.8	06	<b>01459</b>
4x 40 x 1	160	715 A	825 A	1	516.2	06	<b>01460</b>
5x 40 x 1	200	805 A	925 A	1	625.1	06	<b>01097</b>
6x 40 x 1	240	885 A	1020 A	1	733.0	06	<b>01461</b>
8x 40 x 1	320	1040 A	1195 A	1	949.8	06	<b>01462</b>
10x 40 x 1	400	1160 A	1340 A	1	1167.1	06	<b>01099</b>
3x 50 x 1	150	745 A	855 A	1	504.8	06	<b>01463</b>
4x 50 x 1	200	860 A	990 A	1	640.0	06	<b>01464</b>
5x 50 x 1	250	965 A	1110 A	1	775.2	06	<b>01112</b>
6x 50 x 1	300	1060 A	1220 A	1	910.8	06	<b>01465</b>
8x 50 x 1	400	1225 A	1410 A	1	1181.2	06	<b>01466</b>
10x 50 x 1	500	1375 A	1585 A	1	1451.9	06	<b>01113</b>
3x 63 x 1	189	905 A	1045 A	1	682.2	06	<b>01575</b>
4x 63 x 1	252	1045 A	1205 A	1	802.0	06	<b>01467</b>
5x 63 x 1	315	1165 A	1345 A	1	972.0	06	<b>01468</b>
6x 63 x 1	378	1275 A	1470 A	1	1142.1	06	<b>01469</b>
8x 63 x 1	504	1465 A	1685 A	1	1481.0	06	<b>01576</b>
10x 63 x 1	630	1630 A	1875 A	1	1821.2	06	<b>01123</b>
3x 80 x 1	240	1115 A	1285 A	1	797.0	06	<b>01584</b>
4x 80 x 1	60	1280 A	1475 A	1	1012.9	06	<b>01470</b>
5x 80 x 1	400	1425 A	1640 A	1	1227.9	06	<b>01471</b>
6x 80 x 1	480	1550 A	1785 A	1	1442.9	06	<b>01472</b>
8x 80 x 1	640	1775 A	2045 A	1	1873.8	06	<b>01520</b>
10x 80 x 1	800	1960 A	2260 A	1	2305.2	06	<b>01473</b>
4x 100 x 1	60	345 A	400 A	1	112.4	06	<b>01474</b>
5x 100 x 1	500	1720 A	1980 A	1	1530.4	06	<b>01475</b>
6x 100 x 1	600	1870 A	2155 A	1	1798.5	06	<b>01476</b>
8x 100 x 1	800	2110 A	2435 A	1	2336.0	06	<b>01477</b>
10x 100 x 1	1000	2330 A	2690 A	1	2874.0	06	<b>01478</b>

the pure copper weight is given, this does not include the weight of the insulation.



### Holder for laminated busbars

Type	Pack size	Weight kg/100 u.	PG	Part No.
for 1x lam. Cu of 6x 15.5 x 0.8 to 10x 63 x 1	3	11.3	06	<b>01298</b>
for multiple fastening for lam. Cu of 5x 40 x 1 to 10x 100 x 1	4	16.6	06	<b>01299</b>

for mounting on standard C-rail

## Cylindrical fuses Class CC

in accordance with UL 248-4



### Fuse Class CC, time delay

Size	Rated current	Rated voltage	Rated breaking capacity	Pack size	Weight kg/100 u.	PG	Part No.
Class CC	0.5 A	600 V	200 kA	10	0.8	22	31394
	1 A	600 V		10	0.8	22	31244
	1.5 A	600 V		10	0.8	22	31395
	2 A	600 V		10	0.8	22	31245
	2.5 A	600 V		10	0.8	22	31396
	3 A	600 V		10	0.8	22	31397
	4 A	600 V		10	0.8	22	31246
	5 A	600 V		10	0.8	22	31398
	6 A	600 V		10	0.8	22	31247
	8 A	600 V		10	0.8	22	31399
	10 A	600 V		10	0.8	22	31248
	12 A	600 V		10	0.8	22	31400
	15 A	600 V		10	0.8	22	31249
	20 A	600 V		10	0.8	22	31250
	25 A	600 V		10	0.8	22	31251
	30 A	600 V		10	0.8	22	31252

### Fuse Class CC, fast acting

Size	Rated current	Rated voltage	Rated breaking capacity	Pack size	Weight kg/100 u.	PG	Part No.
Class CC	0.5 A	600 V	200 kA	10	0.8	22	31401
	1 A	600 V		10	0.8	22	31235
	2 A	600 V		10	0.8	22	31236
	3 A	600 V		10	0.8	22	31404
	4 A	600 V		10	0.8	22	31237
	5 A	600 V		10	0.8	22	31405
	6 A	600 V		10	0.8	22	31238
	8 A	600 V		10	0.8	22	31406
	10 A	600 V		10	0.8	22	31239
	12 A	600 V		10	0.8	22	31407
	15 A	600 V		10	0.8	22	31240
	20 A	600 V		10	0.8	22	31241
	25 A	600 V		10	0.8	22	31242
	30 A	600 V		10	0.8	22	31243

## Cylindrical fuses Class J

in accordance with UL 248-8



### Fuse Class J, time delay

Size	Rated current	Rated voltage	SCCR	Pack size	Weight kg/100 u.	PG	Part No.	
Class J, 30 A frame	1 A	600 V	200 kA	10	5.0	22	31333	
	2 A	600 V		10	5.0	22	31338	
	3 A	600 V		10	5.0	22	31342	
	4 A	600 V		10	5.0	22	31345	
	6 A	600 V		10	5.0	22	31349	
	8 A	600 V		10	5.0	22	31351	
	10 A	600 V		10	5.0	22	31353	
	12 A	600 V		10	5.0	22	31354	
	15 A	600 V		10	5.0	22	31355	
	20 A	600 V		10	5.0	22	31357	
	25 A	600 V		10	5.0	22	31358	
	30 A	600 V		10	5.0	22	31359	
	Class J, 60 A frame	35 A		600 V	10	8.5	22	31360
		40 A		600 V	10	8.5	22	31361
		45 A		600 V	10	8.5	22	31362
50 A		600 V	10	8.5	22	31363		
60 A		600 V	10	8.5	22	31364		
Class J, 100 A frame	70 A	600 V	1	14.5	22	03228		
	80 A	600 V	1	14.5	22	03229		
	90 A	600 V	1	14.5	22	03230		
	100 A	600 V	1	14.5	22	03231		
Class J, 200 A frame	125 A	600 V	1	35.5	22	03233		
	150 A	600 V	1	35.5	22	03234		
	175 A	600 V	1	35.5	22	03235		
	200 A	600 V	1	35.5	22	03236		
Class J, 400 A frame	250 A	600 V	1	67.0	22	03238		
	300 A	600 V	1	67.0	22	03239		
	350 A	600 V	1	67.0	22	03240		
	400 A	600 V	1	67.0	22	03241		

## Cylindrical fuses Class J

in accordance with UL 248-8



### Fuse Class J, fast acting

Size	Rated current	Rated voltage	SCCR	Pack size	Weight kg/100 u.	PG	Part No.
Class J, 30 A frame	10 A	600 V	200 kA	10	5.0	22	31323
	15 A	600 V		10	5.0	22	31324
	20 A	600 V		10	5.0	22	31325
	25 A	600 V		10	5.0	22	31326
	30 A	600 V		10	5.0	22	31327
Class J, 60 A frame	35 A	600 V		10	8.5	22	31511
	40 A	600 V		10	8.5	22	31512
	50 A	600 V		10	8.5	22	31514
	60 A	600 V		10	8.5	22	31515
Class J, 100 A frame	70 A	600 V		1	14.5	22	03214
	80 A	600 V		1	14.5	22	03215
	100 A	600 V		1	14.5	22	03217
Class J, 200 A frame	125 A	600 V		1	35.0	22	03219
	150 A	600 V		1	35.5	22	03220
	175 A	600 V		1	38.2	22	03221
	200 A	600 V	1	35.5	22	03222	
Class J, 400 A frame	250 A	600 V	1	67.0	22	03224	
	300 A	600 V	1	67.0	22	03225	
	350 A	600 V	1	67.0	22	03226	
	400 A	600 V	1	67.0	22	03227	

# Appendix

## Terms of delivery and payment

The current terms of delivery and payment apply. Further information is available at [www.woehner.com](http://www.woehner.com) under the heading "Media / Downloads".

## Wöhner worldwide

Information to the Wöhner subsidiaries and agencies are available at [www.woehner.com](http://www.woehner.com) under the heading "Contact".

## General technical information

Wöhner busbar systems and components are the result of expert development based on many years of experience. They have been exhaustively tested and hold many approvals. The correct selection of busbars and components is the responsibility of the system designer. For parts used in "low-voltage switching device assemblies" as defined by the IEC or EN 61439 standards, the planning, construction requirements and the required design verification are mandatory. In order to safely exclude risks to people and property when handling electrical power, expert handling of the equipment and compliance with the applicable regulations are fundamental requirements.

In particular, installation, maintenance, modifications and additions must only be carried out by qualified personnel in accordance with the general construction and safety regulations applicable to high-current electrical systems. Technical standards must be observed and the interaction of the components must be taken into account.

## Operating conditions

Unless special instructions are given, the information contained in the documentation applies for the recommended mounting position and the ambient conditions of indoor installation (contamination level 3; 2 in exceptional cases) according to IEC / EN 61439-1/-2/-3. The user must inform the manufacturer about any special operating conditions that deviate from this standard!

Plant-specific reduction factors must be considered, depending on the exact conditions of use. The rated loading factors listed below represent guide values and refer to a maximum + 35 °C temperature of the air directly surrounding the products.

It is essential that all accessible parts are electrically isolated during installation and maintenance. All connections must be correctly tightened with the specified torque (Md), correct gauges must be used and components that provide protection against accidental contact with live parts must be fitted. After transportation, all connections must be checked and, if necessary, re-tightened.

Products are to be used and operated correctly in the manner intended.

The technical information contained in the Manual and the installation instructions should be observed and retained for future modifications, maintenance or additions to the installation. Wöhner reserves the right to make modifications to its components, as the result of developments and technical advances.

Number of main circuits	Rated diversity factor	
	to IEC / EN 61439-2	to IEC / EN 61439-3
2 and 3	0.9	0.8
4 and 5	0.8	0.7
6 to 9 inclusive	0.7	0.6
10 and more	0.6	0.5

IEC / EN 61439  
Part 2: Power switchgear and controlgear assemblies  
Part 3: Installation distributor for operation by lay people

In products intended to hold fuse-links, please observe the requirements governing connected cross-sections from the relevant product standards. Comply with the stated temperature specifications of all plastics used. Some of the material properties described here refers to several products. In isolated cases, values may exceed the levels stated.

Further information for each article are available at [www.woehner.com](http://www.woehner.com) under the heading "Products".

We recommend vertically mounting the device on a horizontal busbar system. The fixing handle must be placed on top for switchgears mounted vertically. For this mounting position, the rated load factors shown in Table 101 apply for the components with the worst-case permissible power dissipation and the ambient conditions as per IEC / EN 61439-2 / -3, section 7.1.1.1.

In case of deviating mounting positions and conditions, all influencing factors are on maximum temperature must be accounted for by applying additional correction factors.

For example:

- power dissipation of the fuse-links and the devices in operation
- simultaneous full and partial load cycles

## Conductor connections

Specifications regarding conductor terminals are only valid for copper conductors. The maintenance-free resistance to ageing for selected connections has been verified by testing.

If the standards-compliant connection of aluminium conductors has been confirmed for connection terminals, this is stated expressly. Before connecting aluminium conductors, any oxide deposits must be removed from the conductor surfaces and further oxidation prevented. After removal of the oxide deposit, chips and abrasives cannot be permitted to damage the contacts. Multiwire conductors should be shortened and exposed to the bare metallic conductor section. The contact points are to be sealed (e.g. using acid-free contact grease) so that they are airtight to protect them against further oxidation.

The terminal points need to be checked, taking operating conditions into account. For normal ambient conditions and loads, we recommend inspections at 6-month intervals. In case of unfavourable operating conditions or frequent temperature fluctuations at the

- arrangement in the system, mutual influence of the devices
  - busbar cross-section, conductor cross-section
  - ambient temperature, flow conditions, ventilation or cooling must be accounted for by applying additional correction factors
- Mounting positions are prohibited where gravity and direction of mounting are opposed.

Air and creepage distances must be calculated in compliance with IEC / EN 60664-1 (VDE 0110 part 1). For values of 12 mm and greater, these requirements are automatically satisfied up to 690 V AC in compliance with IEC. Additional specifications, such as the minimum distance to earthed parts, must be observed. This is especially relevant for applications in compliance with UL.

Detrimental effects from chemical substances during storage, processing and operation must be prevented.

In order to ease the locking of the busbar components and the insertion of the NH fuse units, the spring clips will be lubricated with special grease during manufacturing. On other parts, especially on screw threads, it must be ensured that no supplementary change of the friction coefficient takes place.

terminal points, a shorter interval may be necessary. It is possible to place temperature measuring strips and a record of the maximum values in the immediate vicinity of the terminal points, which may be useful for an objective assessment during regular tests.

All contact positions are suitable for connecting one conductor, unless expressly otherwise indicated. Double-function terminals are characterised by 2 contact positions.

In principle, the tightening torques specified on the device, the installation instructions or on the Internet are to be applied. Where no limits are specified, the tolerance on the tightening torque Md of screw and clamp connections may be a maximum of + / -20 % of the nominal value. If no range is specified for terminal cross-sections, the terminal range is limited to two levels below the nominal cross-section.

The relationships between conductor cross-sections in mm<sup>2</sup> and AWG / MCM sizes are listed below:

0.75 mm <sup>2</sup>	AWG 18 = 0.82 mm <sup>2</sup>
1.5 mm <sup>2</sup>	AWG 16 = 1.3 mm <sup>2</sup>
2.5 mm <sup>2</sup>	AWG 14 = 2.1 mm <sup>2</sup>
4 mm <sup>2</sup>	AWG 12 = 3.3 mm <sup>2</sup>
6 mm <sup>2</sup>	AWG 10 = 5.3 mm <sup>2</sup>
10 mm <sup>2</sup>	AWG 8 = 8.4 mm <sup>2</sup>
16 mm <sup>2</sup>	AWG 6 = 13.3 mm <sup>2</sup>
25 mm <sup>2</sup>	AWG 4 = 21.2 mm <sup>2</sup>
35 mm <sup>2</sup>	AWG 2 = 33.6 mm <sup>2</sup>
50 mm <sup>2</sup>	AWG 0 = 53.5 mm <sup>2</sup>
70 mm <sup>2</sup>	AWG 2/0 = 67.4 mm <sup>2</sup>
95 mm <sup>2</sup>	AWG 3/0 = 85.0 mm <sup>2</sup>
120 mm <sup>2</sup>	250 MCM = 127 mm <sup>2</sup>
150 mm <sup>2</sup>	300 MCM = 152 mm <sup>2</sup>
185 mm <sup>2</sup>	350 MCM = 177 mm <sup>2</sup>
240 mm <sup>2</sup>	500 MCM = 253 mm <sup>2</sup>
300 mm <sup>2</sup>	600 MCM = 304 mm <sup>2</sup>

### Note on sizing AC string collectors

When AC string collectors are used, a few strings supply one inverter. The power of several string inverters is pooled on the alternating current side, e.g. via a 60 mm busbar system.

When dimensioning components for a busbar system of this kind, the direction of the energy – which is inverted to that of industrial applications – is unimportant. The same types of fuse (gG) are also used. It is the cables and leads going to the inverter that have to be protected from overload and short circuit. However, the rated diversity factor of the switch-gear and the simultaneity factor of this application (= 1) do not match.

If, for example, a SECUR®60Classic PowerLiner is equipped with 35 A - D02 fuses in a power distribution unit, the switch-gear device will be able to carry its nominal current of 35 A continuously on its own. However, this value must be reduced through thermal interaction with neighbouring devices.

Conductor types are designated as follows:

Description	Short name	Standard designation
solid round	re	Class 1 (IEC / EN 60228)
stranded round	rm	Class 2 (IEC / EN 60228)
solid sectored	se	Class 1 (IEC / EN 60228)
stranded sectored	sm	Class 2 (IEC / EN 60228)
flexible	f	Class 5 (IEC / EN 60228)
stranded	str	Class B (UL 486E)

The following abbreviations are also used:

Laminated copper busbar	lam. Cu
Wire-end ferrule	AE

Wire-end ferrules are only permitted for applications in compliance with IEC / EN standards. Wöhner has tested the use of wire end ferrules. This does not result in a general approval for different ferrules and crimping methods. The maximum conductor cross-sections may need to be reduced. Conductor connections are to be set up with consideration given to the requirements as per IEC / EN 60999-1 / -2. Conductor connection set-up is to be such that no load tension and – with respect to the application – no alternating bending load developed.

The standard takes account of this situation by means of a switchgear assemblies rated diversity factor (RDF). This states the factor of the rated current to which all power circuits of a power distribution unit in a switchgear assembly can be permanently and simultaneously subjected. Here, the values from the table on page 8.1 apply, in accordance with IEC / EN 61439-2 / -3.

It must always be ensured that the rated load factor applies to the fuse being used and not the rated current of the switch-disconnector or fuse-holder. It is also advisable to use fuse-links with silver-plated contacts. The size of the copper conductors is determined on the basis of the applicable product standard, e.g. IEC / EN 60947-3 for SECUR®60Classic PowerLiner.

For the above example, this means that from 10 devices or more, the SECUR®60Classic PowerLiner (rated current 63 A) with side-mounted module and 35 A fuse-links may be operated at 21 A maximum. Here, the rated current of the fuse is reduced to 60 %. If the maximum current of the inverter does not exceed this value, and if fuse protection at 35 A is permitted by the wiring and the inverter datasheet, the dimensions are correct.

If higher power ratings with correspondingly higher currents need to be pooled, there are two choices for adaptation:

With the right conductor dimensions, the nominal current of the fuse-links can be increased. However, this must fit in with the requirements for inverter fuse protection. In this example the use of a 50 A fuse permits a maximum current of 30 A.

Alternatively, the thermal influence of the switchgear is reduced by modifying the layout. With the SECUR®60Classic PowerLiner fuse-switch-disconnector, in a test with 6 power circuits, a distance equal to the width of two devices (54 mm) between the switchgear devices increased the rated diversity factor from 0.7 to 0.9. This is only possible because the distance considerably reduces the thermal influence of the fuse-links. Based on the example with the 35 A fuse, the new arrangement would enable an inverter current of 31 A.

### NH (busbar mounted) fuse-switch-disconnectors and NH in-line fuse-switch-disconnectors

NH fuses are only intended for use by authorized electricians or trained electrical personnel, see IEC / EN 60269-2.

When switching devices observe the following instructions:

- only electricians or personnel trained in electrical engineering are permitted to operate the equipment (disconnect, switch on, switch off or change fuses) in accordance with VDE 0105-100

### Use of busbars

To ensure safe mounting and connection of the single and multi-pole busbar components, the busbars used must comply with the adjacent tolerances. The busbars supplied by Wöhner meet these requirements.

The rated diversity factors must always be selected in conformity with the application of the switch fuse unit, in accordance with IEC / EN 61439-2 / -3. See table on page 8.1. Non-compliance with these reduction factors leads to unacceptably high temperatures in switchgear assemblies. This may in turn result in damaged or incorrectly triggered switchgear devices. Both fuse-links and cable insulation age when exposed to high temperatures. In all cases, failures in photovoltaic systems can be expected.

For the correct design and layout of conductors, accumulation – as well as the ambient temperature – need to be taken into consideration. Here too, mutual thermal influence leads to raised temperatures and so to lower permitted currents. It is important to consider size and the corresponding factors. If the conductors to the inverters in the AC string collector are routed in a cable duct (routing method F), and ambient temperatures of 50 °C are anticipated there, when 6 conductors are used the permitted current capacity reduces to less than 50 % of the nominal current.

When cables and fuses have the correct dimensions, they also produce less dissipation, and therefore less waste heat. This in turn makes both cabinet selection and thermal management easier.

- quick activation of fuse cover using the relevant operating handle
- before switching on, care must be taken that the fuse lid is located correctly in the open position
- the specifications for the IP protection class only apply when the fuse lid is closed

Tensile strength: min. 300 N / mm<sup>2</sup>

Permitted tolerances:

Radius R 0.3 ... 0.7

Width: + 0.1 / - 0.5

Thickness: + 0.1 / - 0.1

Centre distance:

+ 0.5 / - 0.5 (60 mm system)

+ 1.0 / - 1.0 (100 mm system, 185 mm system)

Deviation in the contact level: 0.4

## Use of comb-type busbars

A range of Wöhner fuse-holders and switches are suitable for use with comb-type busbars. We recommend the use of the comb-type busbars listed at the relevant places in the current Wöhner Manual (pollution degree 2 in accordance with IEC / EN 61439-1 / -2). Ensure that the required air and creepage distances left in standard installation

positions are observed (comb-type busbars are angled towards the operator). Power must be supplied via the connection terminals sold separately by Wöhner. The additional connection terminal is not required for Wöhner products with double-function terminals. Connect terminals using the maximum torque stated on the fuse-holder.

## Machining and use of plastic sections

The sections listed in the Wöhner Manual as covers for busbars or busbar systems and bottom troughs have been optimised with regard to their mechanical, thermal and electrical properties. Take particular care when mechanically cutting the profiles to avoid the formation of cracks (narrow saw blade, high speed of cutting, low tooth advance and strong saw guiding).

The cutting of profiles with a circular saw and an AKE circular saw blade for plastics is reliable with the following specific values:

D = 300 mm, B = 2.2 mm, Z = 120 W  
with 5° negative tooth change (w),  
cutting speed of 50 - 65 m / s,  
tooth feed 0.05 - 0.1 mm.

The plastic parts must be clamped in order to exclude vibrations.

When processing and using plastic profiles, contact with oil, grease and other chemicals must be avoided.

## Dimensions

All specified length dimensions are always in mm unless otherwise indicated. Mounting rails of adapters and clip-on fixings generally comply with IEC / EN 60715.

## CE marking

In association with the 2006 / 95 / EG low voltage directive, Wöhner products are subject to the CE marking commitment. The CE mark is applied via the label on the packaging and on the products themselves in compliance with the provisions of the Low Voltage Directive. Wöhner thus confirms its compliance with the directive.

The corresponding EU Declarations of Conformity for each article are available at [www.woehner.com](http://www.woehner.com) under the heading "Products".

## Directives

### RoHS Directive

Currently, Wöhner products do not come under the scope of RoHS Directive 2011 / 65 / EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment, or WEEE Directive 2012 / 19 / EU governing waste electrical and electronic equipment. Irrespective of these directives, measures have been initiated, which ensure that the use of pollutant-free plastics Complies with the RoHS Directive. The metallic surface coatings shall correspond to the substance ban in accordance with the RoHS Directive. Fuse-links may contain function-specific components which do not comply with the RoHS Directive.

Certificates are available at [www.woehner.com](http://www.woehner.com) under the heading "Media/Downloads".

### REACH Regulation

Our products are "products" within the meaning of the REACH Regulation (EC) No. 1907 / 2006. The information requirements under Article 33 regarding substances in products applies only to so-called substances of very high concern which meet the criteria listed Article 57. Wöhner reviews and updates the REACH Regulation in accordance with Annex VII of the Candidate List (SVHC list).

### WEEE Directive

The products from Wöhner are marked accordingly with the crossed-out dustbin symbol.

## Insulation coordination

All specifications apply for overvoltage category III in accordance with IEC / EN 61439-1 The usability for other overvoltage categories can be derived based on the rated impulse withstand voltage  $U_{imp}$ . The following clearances must be maintained:

Rated impulse withstand voltage $U_{imp}$	Minimum clearance
4 kV	3.0 mm
6 kV	5.5 mm
8 kV	8.0 mm
12 kV	14 mm

All specifications apply for pollution degree 3 in accordance with IEC / EN 61439-1 (Wöhner uses insulating parts made from materials in material class IIIa).

The following creepage distances must be maintained:

Rated insulation impulse withstand voltage $U_i$	Creepage distance
400 V AC / DC	6.3 mm
500 V AC / DC	8.0 mm
690 V AC / DC	10.0 mm
800 V AC / DC	12.5 mm
1000 V AC / DC	16.0 mm
1250 V DC	20.0 mm
1500 V DC	25.0 mm

The user is responsible for maintaining the proper clearances and creepage distances, taking the installation conditions into account. The maximum permitted power dissipation of the fuse-links must be taken into account with components having fuses. Short circuit data for DC applications is available upon request.

You can find an overview of the applicability of Wöhner products in terms of the operation voltage (according to IEC standards) at [www.woehner.com/insulation\\_coordination](http://www.woehner.com/insulation_coordination)



Part no.	Chapter.Page	Pack size	Part no.	Chapter.Page	Pack size	Part no.	Chapter.Page	Pack size
01008	3.7, 5.1	3	01240	3.5	1	01444	4.1	2
01025	3.4	2	01243	3.5	1	01446	7.1	
01026	3.4	10	01244	2.1, 3.4	10	01447	7.1	
01062	7.1	1	01245	2.1, 3.4, 4.1	10	01448	7.1	
01063	7.1	1	01252	3.4	5	01449	7.1	
01064	7.1	1	01272	2.1	10	01450	7.1	
01068	2.2, 3.6	25	01274	3.8	3	01451	7.1	
01069	3.6, 3.7, 5.2, 5.3	3	01275	3.8	3	01452	7.1	
01070	3.6, 3.7, 5.2, 5.3	3	01284	2.2, 3.6	100	01453	7.1	
01071	3.6, 3.7, 5.2, 5.3	3	01285	2.2, 3.6	50	01454	7.1	
01075	7.1	1	01287	2.2, 3.6	25	01455	7.1	
01076	7.1	1	01289	2.2, 3.6	100	01456	7.1	
01083	7.1	1	01290	2.2, 3.6	50	01457	7.1	
01084	7.1	1	01292	2.2, 3.6	25	01458	7.1	
01089	7.1	1	01298	7.2	3	01459	7.2	
01090	7.1	1	01299	7.2	4	01460	7.2	
01091	7.1	1	01300	3.5	3	01461	7.2	
01093	2.2, 3.6	20	01301	3.5	3	01462	7.2	
01095	7.1	1	01314	2.1	2	01463	7.2	
01096	7.1	1	01317	2.1	10	01464	7.2	
01097	7.2	1	01318	3.6, 5.1, 5.3	6	01465	7.2	
01099	7.2	1	01319	3.6, 5.3	6	01466	7.2	
01112	7.2	1	01320	3.4	8	01467	7.2	
01113	7.2	1	01325	3.1, 3.2	10	01468	7.2	
01116	3.2	4	01356	3.1	10	01469	7.2	
01123	7.2	1	01357	3.1	10	01470	7.2	
01131	3.1, 3.2	5	01358	3.1	10	01471	7.2	
01132	3.2	4	01359	3.1	10	01472	7.2	
01135	2.2, 3.6	6	01360	3.8	1	01473	7.2	
01136	3.4	1	01361	3.8	1	01474	7.2	
01137	3.4	1	01362	3.8	1	01475	7.2	
01140	3.3	1	01363	3.1	1	01476	7.2	
01141	3.8	3	01369	5.3	6	01477	7.2	
01145	3.8	3	01373	3.2	4	01478	7.2	
01146	7.1	1	01374	2.1	10	01480	4.1	3
01147	3.5	1	01379	5.3	12	01481	4.1	3
01162	3.5	1	01380	5.3	12	01482	4.1	1
01165	2.2	1	01401	2.2	1	01503	7.1	
01185	3.7, 5.1	3	01413	3.5	10	01504	7.1	
01186	3.7, 5.1	3	01416	4.1	1	01505	7.1	
01187	3.3	1	01417	3.4	2	01506	7.1	
01188	5.2	1	01420	4.1	1	01508	3.1	10
01189	5.2	1	01421	4.1	1	01513	3.7, 5.1	3
01190	3.3	1	01422	3.2	2	01515	3.1	2
01203	2.2, 3.6, 5.1	25	01425	3.2	4	01518	3.1	2
01204	3.3	1	01430	4.1	4	01519	7.1	
01224	3.3	1	01431	4.1	1	01520	7.2	
01225	5.2	1	01432	4.1	2	01521	7.1	
01226	5.2	1	01433	4.1	8	01522	7.1	
01227	3.3	1	01434	4.1	4	01523	7.1	
01231	3.2	3	01436	4.1	1	01524	7.1	
01232	3.2	2	01437	4.2	1	01525	7.1	
01234	3.2	4	01440	4.1	2	01526	7.2	
01236	3.4	1	01441	4.2	1	01537	3.5	1
01237	3.4	1	01442	4.2	1	01538	3.5	1
01238	3.4	1	01443	4.2	1	01539	3.5, 3.6	1

Part no.	Chapter.Page	Pack size	Part no.	Chapter.Page	Pack size	Part no.	Chapter.Page	Pack size	Part no.	Chapter.Page	Pack size
01540	3.5, 3.6	1	03220	7.5	1	31239	7.3	10			
01554	3.4	1	03221	7.5	1	31240	7.3	10			
01555	3.4	2	03222	7.5	1	31241	7.3	10			
01562	2.2	6	03224	7.5	1	31242	7.3	10			
01563	3.5	8	03225	7.5	1	31243	7.3	10			
01573	3.1, 3.2	10	03226	7.5	1	31244	7.3	10			
01575	7.2		03227	7.5	1	31245	7.3	10			
01576	7.2		03228	7.4	1	31246	7.3	10			
01584	7.2		03229	7.4	1	31247	7.3	10			
01590	3.5	1	03230	7.4	1	31248	7.3	10			
01592	1.1	1	03231	7.4	1	31249	7.3	10			
01593	1.1	1	03233	7.4	1	31250	7.3	10			
01596	3.5, 3.6	1	03234	7.4	1	31251	7.3	10			
01597	3.5, 3.6	1	03235	7.4	1	31252	1.2, 2.3, 3.15, 7.3	10			
01599	3.4	1	03236	7.4	1	31258	6.4	12			
01601	3.1	1	03238	7.4	1	31275	6.5	12			
01608	3.3	1	03239	7.4	1	31276	6.5	6			
01609	3.3	1	03240	7.4	1	31277	6.5	4			
01610	3.3, 5.3	1	03241	7.4	1	31278	6.5	6			
01618	2.1, 3.3	1	03289	6.6	3	31279	6.5	3			
01620	3.3	1	03290	6.6	3	31280	6.5	2			
01622	3.3	1	03293	6.6	3	31281	6.5	6			
01623	2.1, 3.3	1	03294	6.6	3	31282	6.5	3			
01624	3.3	1	11225	1.1	1	31283	6.5	2			
01625	3.3, 4.1	1	11405	1.1	1	31284	6.3	6			
01626	4.1	1	31021	6.6	6	31285	6.3	3			
01628	4.1	1	31039	6.2	10	31287	6.3	2			
01756	3.5, 3.6	1	31042	6.2	20	31295	6.2	12			
01757	3.5, 3.6	1	31110	6.4	12	31296	6.2	6			
01759	3.6, 5.3	3	31111	6.4	6	31297	6.2	4			
01760	3.6, 5.1, 5.3	3	31112	6.4	6	31298	6.2	12			
01765	4.1	1	31113	6.4	4	31299	6.2	6			
01766	4.1	1	31114	6.4	3	31300	6.2	4			
01767	4.1	1	31115	6.4	6	31323	7.5	10			
01823	3.8	6	31116	6.4	3	31324	7.5	10			
01827	3.8	6	31117	6.4	3	31325	7.5	10			
01829	3.8	3	31118	6.4	2	31326	7.5	10			
01831	5.2	1	31119	6.4	1	31327	7.5	10			
01838	5.2	1	31120	6.4	6	31333	7.4	10			
01886	3.8	3	31121	6.4	3	31338	7.4	10			
01906	3.7, 5.1	3	31122	6.4	3	31342	7.4	10			
01907	3.7, 5.1	3	31123	6.4	2	31345	7.4	10			
01911	3.7, 5.1	3	31124	6.4	1	31349	7.4	10			
01934	3.7, 5.1	3	31130	6.4	12	31351	7.4	10			
01935	3.7, 5.1	3	31132	6.4	6	31353	7.4	10			
01936	3.7, 5.1	3	31133	6.4	4	31354	7.4	10			
01990	3.8	6	31135	6.4	6	31355	7.4	10			
02321	6.1	1	31138	6.4	2	31357	7.4	10			
02322	6.1	1	31140	6.4	6	31358	7.4	10			
02323	6.1	1	31143	6.4	2	31359	7.4	10			
02324	6.1	1	31168	6.4	1	31360	7.4	10			
02325	6.1	1	31171	6.4	1	31361	7.4	10			
03214	7.5	1	31235	7.3	10	31362	7.4	10			
03215	7.5	1	31236	7.3	10	31363	7.4	10			
03217	7.5	1	31237	7.3	10	31364	7.4	10			
03219	7.5	1	31238	7.3	10	31394	7.3	10			

Part no.	Chapter.Page	Pack size	Part no.	Chapter.Page	Pack size	Part no.	Chapter.Page	Pack size
31395	7.3	10	32020	3.13	1	32451	3.12	4
31396	7.3	10	32023	3.13	1	32452	3.12	2
31397	7.3	10	32028	3.13	1	32453	3.12	2
31398	7.3	10	32029	3.12	2	32454	3.10	4
31399	7.3	10	32030	3.13	1	32455	3.10	4
31400	7.3	10	32031	3.14	1	32456	3.10	4
31401	7.3	10	32033	3.14	1	32457	3.10	4
31404	7.3	10	32034	3.12	1	32459	3.10	4
31405	7.3	10	32064	3.14	1	32460	3.12	4
31406	7.3	10	32067	3.13	1	32461	3.10	4
31407	7.3	10	32068	3.13	1	32463	3.12	2
31511	7.5	10	32137	3.13	1	32466	3.10	4
31512	7.5	10	32138	3.14	1	32467	3.10	4
31514	7.5	10	32140	3.13	1	32469	3.10	4
31515	7.5	10	32146	3.11	4	32472	3.10	4
31548	6.2	10	32156	3.13	1	32477	3.11	4
31549	6.2	10	32157	3.14	1	32478	3.11	4
31550	6.2	10	32300	1.3	6	32484	3.11	4
31552	6.2	20	32301	1.3	6	32485	3.11	4
31555	6.6	5	32302	1.3	6	32498	3.12	4
31561	6.2	10	32307	1.3	6	32511	3.11, 3.9	10
31562	6.2	10	32308	1.3	6	32513	3.11, 3.9	10
31567	1.2, 2.3, 3.15, 6.1	3	32309	1.3	6	32533	3.12	4
31568	1.2, 2.3, 3.15, 6.1	3	32311	1.3	6	32534	3.12	4
31569	1.2, 2.3, 3.15, 6.1	3	32400	3.9	4	32535	3.12	4
31570	3.16	12	32401	3.9	4	32570	3.13	1
31571	3.16	12	32402	3.9	4	32575	3.13	1
31572	3.16	12	32404	3.9	4	32577	3.13	1
31920	6.3	6	32408	3.9	4	32578	3.13	1
31921	6.3	3	32412	3.9	4	32579	3.14	1
31922	6.3	2	32416	3.9	4	32580	3.13	1
31923	6.3	6	32420	3.9	4	32581	3.14	1
31924	6.3	3	32421	3.9	4	32584	3.13	1
31925	6.3	2	32425	3.9	4	32585	3.14	1
31929	6.2	12	32426	3.9	4	32586	3.13	1
31930	6.4	12	32427	3.12	4	32588	3.12	4
31932	6.3	6	32428	3.12	4	32589	3.11	4
31933	6.3	3	32429	3.12	4	32590	2.3	4
31934	6.3	2	32430	3.10	4	32591	2.3	4
31940	6.5	6	32431	3.10	4	32592	3.13	1
31941	6.5	2	32432	3.10	2	32593	3.14	1
31942	6.5	6	32433	3.10	4	32600	3.13	1
31943	6.5	2	32434	3.12	4	32601	3.13	1
31954	3.16	4	32436	3.10	4	32635	3.11	4
31955	3.16	4	32438	3.12	4	32636	3.11	4
31957	6.5	3	32439	3.10	4	32637	3.12	4
31958	3.17	4	32440	3.12	2	32638	3.12	4
31959	3.17	4	32441	3.10	4	32639	3.12	4
31968	3.17	1	32442	3.10	4	32641	3.14	1
31970	3.17	1	32443	3.10	4	32642	3.13	1
31971	6.6	12	32444	3.10	4	32643	3.14	1
31972	6.5	3	32445	3.12	4	32650	3.12	4
31973	6.6	12	32446	3.10	4	32655	3.10	4
31974	6.6	6	32448	3.12	2	32659	3.12	4
32017	3.13	1	32449	3.10	4	32660	3.13	1
32018	3.13	1	32450	3.12	4	32662	3.12	1

Part no.	Chapter.Page	Pack size	Part no.	Chapter.Page	Pack size	Part no.	Chapter.Page	Pack size	Part no.	Chapter.Page	Pack size
32663	3.12	1	32787	4.5	1	33603	3.17	1			
32664	3.12	1	32788	4.5	1	33665	6.8	1			
32665	1.4	9	32795	4.4	1	33666	6.8	1			
32666	1.3	1	32796	4.4	1	33669	6.8	1			
32668	1.4	1	32797	4.4	1	33670	6.8	1			
32669	1.4	1	32807	4.3	1	33680	6.8	1			
32676	1.4	1	32907	3.11	24	33681	6.8	1			
32677	1.4	1	32912	2.3	10	33682	6.8	1			
32682	1.3	1	32914	3.11	24	33692	6.8	1			
32684	1.4	1	32915	3.11	24	33694	6.8	1			
32686	1.4	1	32921	3.11	24	33695	6.8	1			
32690	1.4	1	32933	1.4	8	33696	6.8	1			
32691	1.4	1	32934	1.4	4	33802	3.17	1			
32692	1.4	1	32947	1.4, 3.11, 3.9	10	33808	6.7	1			
32700	4.5	1	32948	3.11, 3.9	10	33812	6.7	1			
32701	4.5	1	32949	3.11, 3.9	10	33816	6.7	1			
32702	4.5	1	32950	3.11, 3.9	10	33820	6.7	1			
32703	4.5	1	32951	3.11, 3.9	10	33838	6.7	1			
32704	4.5	1	32952	1.4	10	33842	6.7	1			
32706	4.5	1	32954	3.11, 3.9	50	33846	6.7	1			
32707	4.3	1	32956	3.9	10	33850	6.7	1			
32708	4.4	1	32963	3.11	10	33868	6.7	1			
32718	4.5	1	32964	3.9	10	33872	6.7	1			
32719	4.5	1	32969	3.11, 3.9	50	33876	6.7	1			
32722	4.5	1	32973	3.10	4	33884	6.7	1			
32723	4.5	1	32974	3.10	4	33888	6.7	1			
32726	4.4	1	32975	3.14	1	33892	6.7	1			
32729	4.4	1	32976	3.13	1	35001	5.2	1			
32730	4.4	1	32977	3.13	1	35004	5.1	1			
32731	4.4	1	32978	3.14	1	35005	5.1	1			
32732	4.4	1	32979	1.4	10	35006	5.1	1			
32733	4.4	1	32981	3.12	1	35007	5.1	1			
32734	4.4	1	32983	4.5	1	35008	5.2	2			
32737	4.4	1	32984	4.5	1	35009	5.2	1			
32738	4.5	1	32985	4.5	1	35015	5.1	1			
32739	4.5	1	32986	4.5	1	35016	5.1	1			
32741	4.2	1	32987	4.5	1	35017	5.2	4			
32745	4.2	1	33027	6.7	1	36001	2.3	1			
32747	4.4	1	33031	6.7	1	36003	3.9	1			
32752	4.3	1	33035	6.7	1	36009	1.3	1			
32753	4.3	1	33040	6.7	1	36100	6.1	1			
32754	4.3	1	33148	3.17	1	36101	2.3	1			
32755	4.3	1	33198	3.17	270	36102	3.15	1			
32756	4.3	1	33216	3.17	1	36103	6.1	1			
32757	4.3	1	33308	6.3	1	36104	2.3	1			
32758	4.3	1	33311	3.17	1	36105	3.15	1			
32761	4.3	1	33398	3.17	270	36106	6.1	1			
32762	4.3	1	33402	3.17	1	36107	2.3	1			
32763	4.3	1	33403	3.17	1	36108	3.15	1			
32764	4.4	1	33408	6.3	1	36109	1.2, 2.3, 3.15, 6.1	1			
32765	4.3	1	33409	6.3	1	36110	1.2, 2.3, 3.15, 6.1	1			
32766	4.3	1	33421	3.17	1	36111	1.2, 2.3, 3.15, 6.1	1			
32767	4.3	1	33422	3.17	1	36112	6.1	1			
32769	4.3	1	33600	3.17	1	36113	2.3	1			
32771	4.4	1	33601	3.17	1	36114	3.15	1			
32783	4.4	1	33602	3.17	1	36123	6.1	1			

Part no.	Chapter.Page	Pack size
<b>36125</b>	3.15	1
<b>36126</b>	6.1	1
<b>36128</b>	3.15	1
<b>36130</b>	1.2	1
<b>36131</b>	1.2	1
<b>36155</b>	2.3	1
<b>36156</b>	3.15	1
<b>36157</b>	2.3	1
<b>36158</b>	3.15	1
<b>36159</b>	1.2, 2.3, 3.15	1
<b>36200</b>	1.1	1
<b>36201</b>	2.1	1
<b>36202</b>	3.1	1
<b>36902</b>	6.1	1
<b>36903</b>	6.1	1
<b>36904</b>	6.1	1
<b>36916</b>	1.2, 2.3, 3.15	1
<b>36917</b>	1.2, 2.3, 3.15	1
<b>36918</b>	1.2, 2.3, 3.15	1
<b>78463</b>	2.1, 3.4	10

An abstract background featuring vibrant blue and white light trails that curve and swirl, creating a sense of motion and depth. The trails are most prominent in the upper right and lower right, converging towards a bright white light source in the center. The overall effect is dynamic and futuristic.

## | IMPRINT

### **Concept and design**

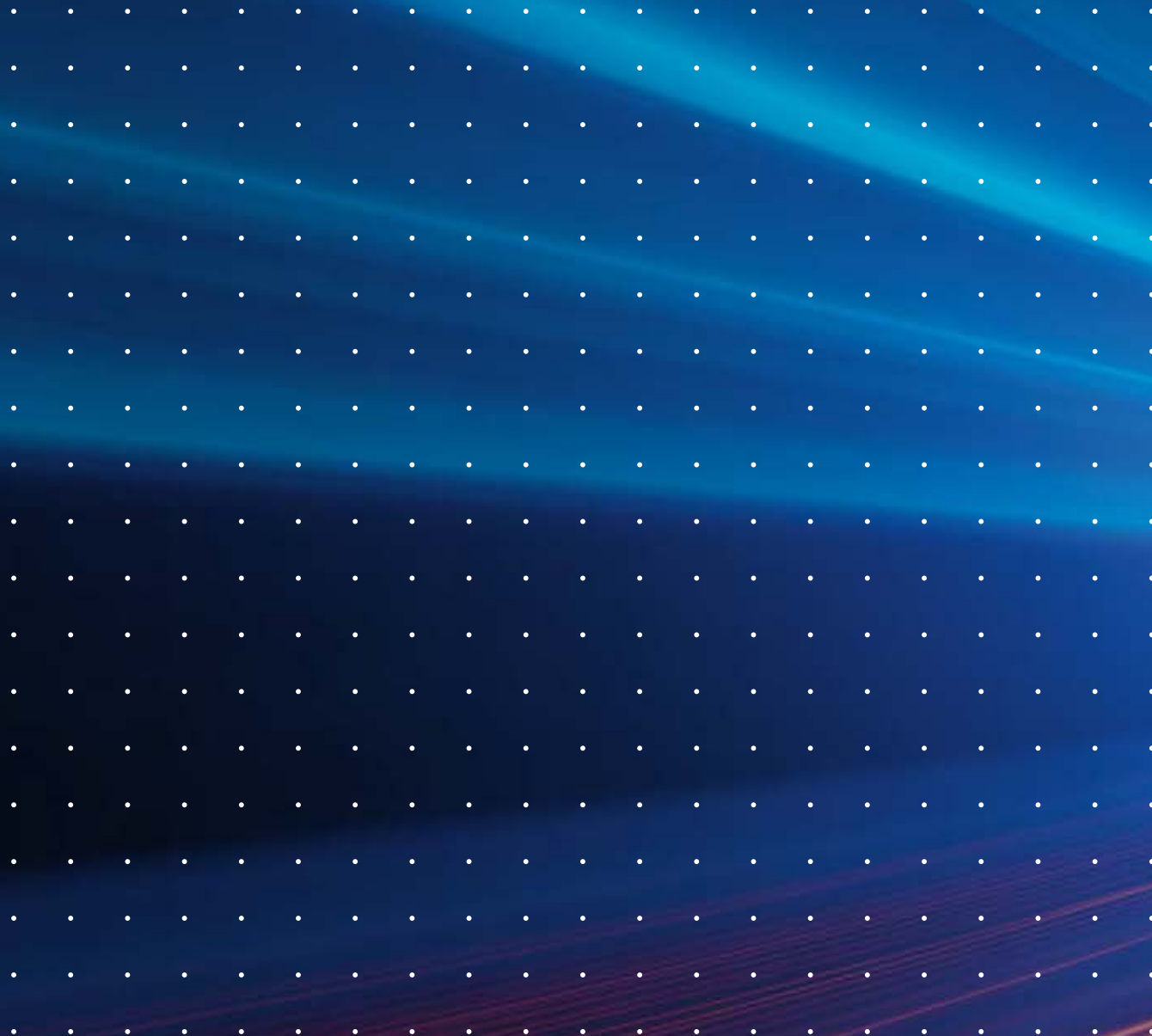
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