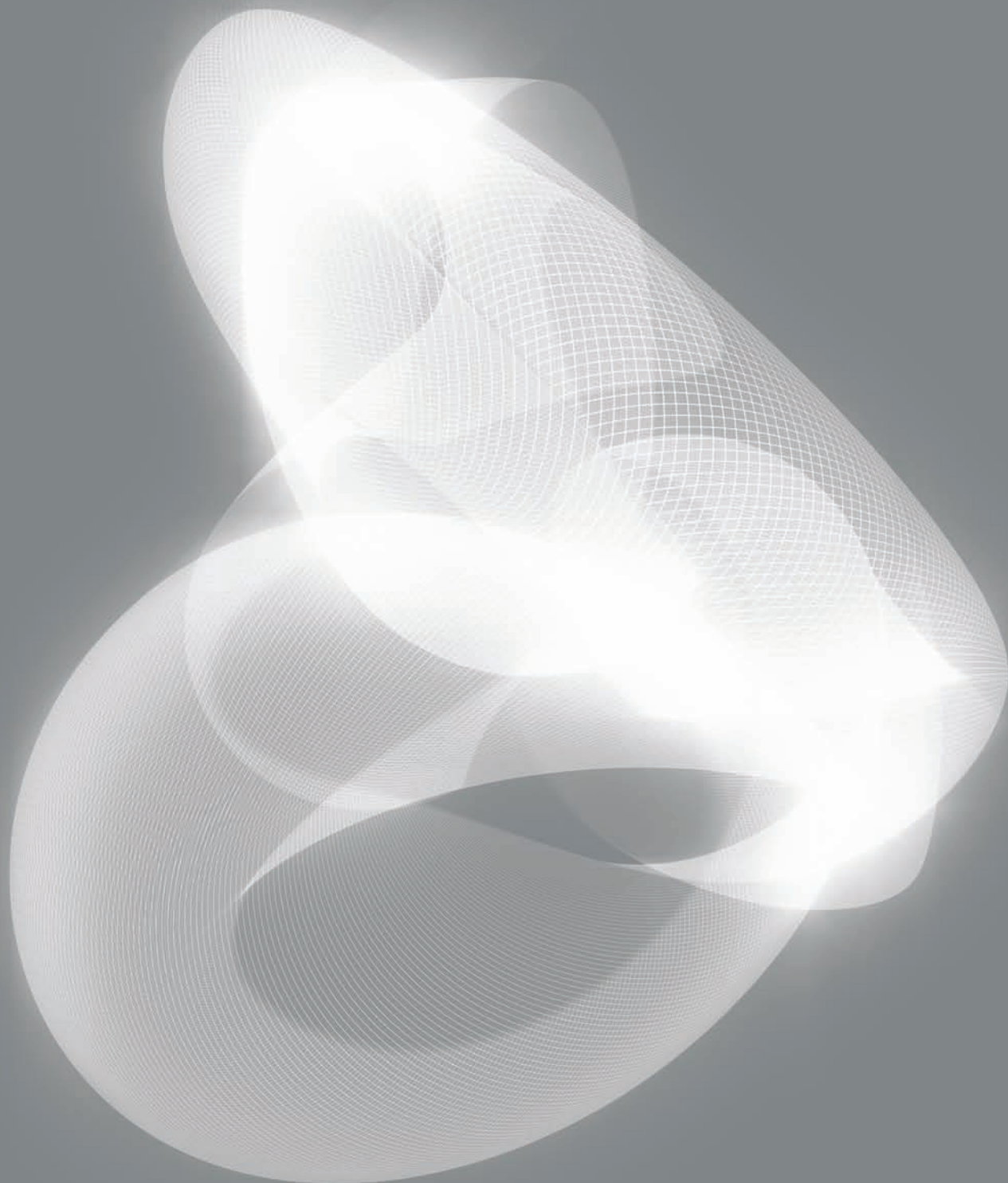


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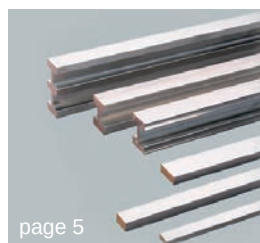
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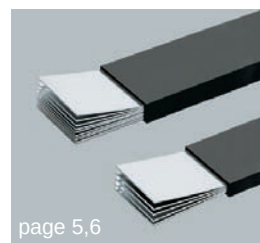
Inquiries to [QCQ@woehner.com](mailto:QCQ@woehner.com)

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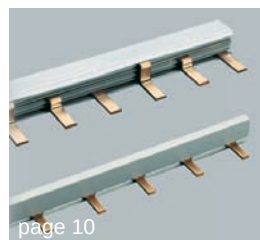
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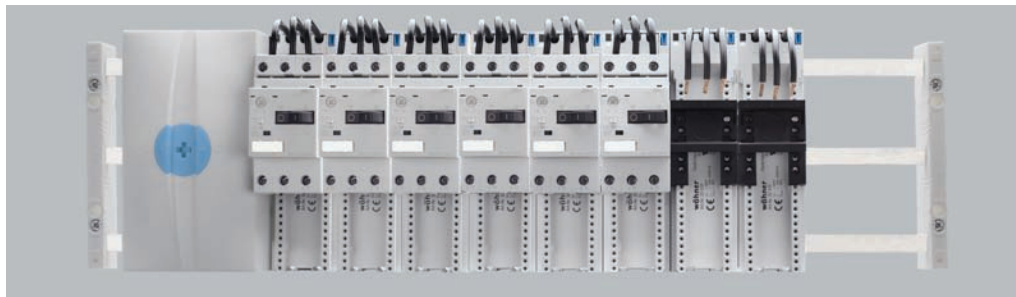
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Many applications do not require the higher ampere ratings of the classic 60mm system. As a result, Wöhner developed the 60mm system compact which features many of the same benefits of the proven classic system, in a space saving design. This compact system provides all of the UL508 component listings of the classic system. It excels with optimized performance, global usability (in compliance with both IEC and UL standards) and considerable space savings.

Where the classic system excels with a high current rating, substantial short-circuit strength and a wide variety of components, the compact system is the ideal solution for lower-level performance with tight space constraints. It has been developed to take the place of our outdated 40mm-system (which could not satisfy the UL508 arcing distances).

The new 60mm-system compact, with an installation height of 160mm, is ideal for current ratings of up to 360A. It takes up 20% less height than the classic system. Built only for busbar dimensions of 12x5mm and 12x10mm, this system features UL listings to the 508A standard. It utilizes the 60mm busbar spacing. As a result, most classic system adapters can also be mounted on the compact system structure, adding to the system versatility.

| 60mm System Compact                                        |                                 |                |               |           |          |                                                                                       |          |       |
|------------------------------------------------------------|---------------------------------|----------------|---------------|-----------|----------|---------------------------------------------------------------------------------------|----------|-------|
| Type                                                       | Connection                      | Terminal Space | For Use Up To | Pack size | Weight   | UL508A                                                                                | Part No. |       |
|                                                            | min. - max.<br>AWG / mm²        | W x H (mm)     | max ampacity  |           | lbs./ea. |                                                                                       |          |       |
| Busbar support, 3-pole                                     |                                 |                |               |           |          |                                                                                       |          |       |
| for flat busbars 12 x 5 and 12 x 10, with end cover        |                                 |                |               | 10        | .015     |  | 01272    |       |
| Busbars                                                    |                                 |                |               |           |          |                                                                                       |          |       |
| flat busbars 12 x 5, 2.40m long, tin-plated                |                                 |                | 150A          | 1         | 2.84     |  | 01618    |       |
| flat busbars 12 x 10, 2.40m long, tin-plated               |                                 |                | 186A          | 1         | 5.64     |                                                                                       | 01623    |       |
| Reserve section cover                                      |                                 |                |               |           |          |                                                                                       |          |       |
| longitudinal profile, 1.10m long                           |                                 |                |               | 2         | 1.44     |  | 01314    |       |
| mount for longitudinal profile 01314                       |                                 |                |               | 10        | 0.09     |  | 01317    |       |
| Universal conductor terminals                              |                                 |                |               |           |          |                                                                                       |          |       |
| for 5mm flat busbars                                       | 16 - 6 AWG                      | 7.5 x 7.5      | 180A          | 100       | 0.05     |  | 01284    |       |
|                                                            | 12 - 2 AWG                      | 10.5 x 11      | 270A          | 50        | 0.10     |                                                                                       | 01285    |       |
|                                                            | 6 - 2/0 AWG                     | 14 x 14        | 400A          | 25        | 0.16     |                                                                                       | 01287    |       |
|                                                            | for 10mm flat busbars           | 16 - 6 AWG     | 7.5 x 7.5     | 180A      | 100      |                                                                                       | 0.05     | 01289 |
|                                                            |                                 | 12 - 2 AWG     | 10.5 x 11     | 270A      | 50       |                                                                                       | 0.10     | 01290 |
|                                                            |                                 | 6 - 2/0 AWG    | 14 x 14       | 400A      | 25       |                                                                                       | 0.17     | 01292 |
| CRITO®ProfiClip, brace terminals                           |                                 |                |               |           |          |                                                                                       |          |       |
| for 12-20 x 5-10 flat busbars                              | 6 AWG - 300 MCM<br>16 - 150 mm² | 20 x 22        | 480A          | 6         | 0.22     |  | 01135    |       |
| Connection terminal plate, 3-pole                          |                                 |                |               |           |          |                                                                                       |          |       |
| for round conductor 35-150mm² and flex. Cu. to 10 x 20 x 1 |                                 | 20 x 22        | 480A          | 1         | 1.27     |  | 01165    |       |
| EQUES®EasyConnector, busbar adapter                        |                                 |                |               |           |          |                                                                                       |          |       |
| 32A, 1 mounting rail, 45 × 160mm                           |                                 |                |               | 4         | 0.44     |  | 32590    |       |
| 63A, 1 mounting rail, 54 × 160mm                           |                                 |                |               | 4         | 0.48     |                                                                                       | 32591    |       |





### NEW CrossLink® Technology

This growing family of fuse holders, fusible switches, non-fused switches and adapters provide versatility of design for equipment manufacturers. Equipment can be designed using North American style fusible protection, and when it is determined that the machine will ship to Europe or Asia, the circuit protection can be easily changed or upgraded to a fuse standard (or circuit breaker) more appropriate for the location. The base adapter mounts directly to the 60mm busbar structure and serves as a touchsafe cover for any unused sections of the system (also serving as space for system expansion). Fuse holders, fuse disconnectors, fusible switches, non-fused switches or circuit breakers connect to these base adapters utilizing the same connection footprint. CrossLink Technology provides OEM designers a level of electrical system versatility never seen before.

**QUADRON® CrossLinkCarrier** – developed for UL Class J 100A frame size and Class NH00 (and 00C) up to 160A; fuse holders mount to a 106mm wide base adapter. Expanded to the UL Class J 200A and Class NH1 up to 250A; fuse holders mount to a 184mm wide base adapter.

**QUADRON® CrossLinkBreaker** – developed as a covered upgrade to the NH00 Carrier, the integral fuse puller doubles as a touchsafe cover. Available for NH00 (and 00C) up to 160A on a 106mm wide base adapter; expanded to NH1 up to 250A on a 184mm wide base adapter.

**QUADRON® CrossLink Switch (fusible)** – available today for NH00 (and 00C) up to 125A (on a 106mm wide base adapter) and NH1 up to 250A (on a 184mm wide base adapter). Can be applied as a main overcurrent protection device or a branch circuit protection device. Available with direct handle or through-the-door shaft and handle construction. (Consult the factory for the various models.)

**QUADRON® CrossLink Switch (non-fused)** – available today in a 160A (106mm wide) and 320A (184mm wide) sizes. Options include top or bottom connections for main or branch circuit wiring. Also available with direct handle or through-the-door shaft and handle construction. (Not all options are shown below, consult the factory for the various models.)

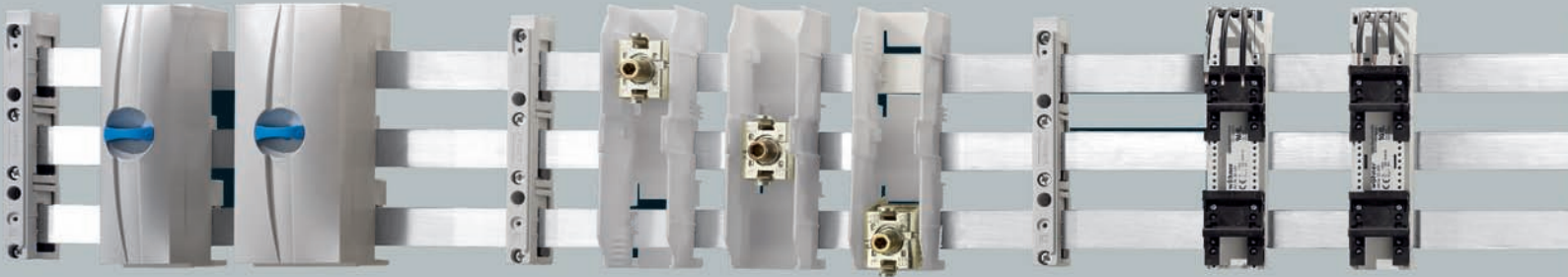
| QUADRON®CrossLinkCarrier Class J, bus-mounted fuse holder with integral cover, bottom/top connection, 3-pole      |                                 |           |           |                    |                                                                                       |          |
|-------------------------------------------------------------------------------------------------------------------|---------------------------------|-----------|-----------|--------------------|---------------------------------------------------------------------------------------|----------|
| Type                                                                                                              | Rated current/<br>rated voltage | WxH       | Pack Size | Weight<br>lbs./ea. | UL508                                                                                 | Part No. |
| Class J 100A, AWG 14 - 2/0 str.                                                                                   | 100A / 600V AC                  | 106 x 200 | 1         | 2.84               |  | 33402    |
| Class J 200A, AWG 6 - 350MCM str.                                                                                 | 200A / 600V AC                  | 184 x 221 | 1         | 7.50               |                                                                                       | 33403    |
| QUADRON®CrossLinkCarrier Class NH, bus-mounting fuse base, bottom/top connection, 3-pole                          |                                 |           |           |                    |                                                                                       |          |
| NH00, box terminal 70/95mm²                                                                                       | 160A / 690V AC                  | 106x200   | 1         | 1.92               |  | 03199    |
| QUADRON®CrossLinkBreaker Class NH, bus-mounted fuse holder with integral cover, bottom/top connection, 3-pole     |                                 |           |           |                    |                                                                                       |          |
| NH00, box terminal 70/95mm²                                                                                       | 160A / 690V AC                  | 106x200   | 1         | 2.20               |  | 33198    |
| NH1, screw connection M10                                                                                         | 250A / 690V AC                  | 184x221   | 1         | 7.50               |                                                                                       | 33601    |
| QUADRON®CrossLinkSwitch Class NH, bus-mounted, direct handle*, fusible switch, 3-pole                             |                                 |           |           |                    |                                                                                       |          |
| NH00, bottom box terminal 70/95mm²                                                                                | 160A / 690V AC                  | 106x200   | 1         | 4.83               |  | 33500    |
| NH1, bottom screw connection M10                                                                                  | 250A / 690V AC                  | 184 x 221 | 1         | 12.50              |                                                                                       | 33510    |
| * consult the factory for exterior handle switching options.                                                      |                                 |           |           |                    |                                                                                       |          |
| QUADRON®CrossLinkSwitch, bus-mounted, direct handle*, non-fused disconnect switch, 3-pole                         |                                 |           |           |                    |                                                                                       |          |
| 160A non-fused switch, bottom 70/95mm²                                                                            | 160A / 690V AC                  | 106 x 200 | 1         | 4.76               |  | 33540    |
| 320A non-fused switch, M10 Top                                                                                    | 320A / 690V AC                  | 184 x 221 | 1         | 12.46              |                                                                                       | 33550    |
| 320A non-fused switch, M10 Bottom                                                                                 | 320A / 690V AC                  | 184 x 221 | 1         | 12.94              |                                                                                       | 33551    |
| * consult the factory for exterior handle switching options.                                                      |                                 |           |           |                    |                                                                                       |          |
| QUADRON®CrossLink Adapter, blank adapter for 106mm CrossLink devices, touchsafe cover for future expansion option |                                 |           |           |                    |                                                                                       |          |
| spare adapter for 33402, 03199 and 33198                                                                          |                                 | 106 x 200 | 1         | 0.80               |  | 32594    |

## Safe simple power distribution in a time and space-saving design.

The 60mm busbar system has undergone dramatic enhancements and innovation since 2005. The advent of UL508A, the Underwriters Laboratories Inc. safety standard for Industrial Control Panels, has prompted us to continue our development of innovative designs with a particularly close eye on the North American marketplace. These efforts have resulted in the introduction of a power distribution system focused on electrical safety as well as dramatic space-saving design. Our large and versatile selection of system components can be applied to traditional motor control, motor control through power electronics as well as power distribution to solid state control components.



Since 2008, many items are now UL Listed under the NMTR category for Power Circuit and Motor-Mounted Apparatus. Systems can now be designed using UL Listed components without an additional "procedure described" entry in the file of the system integrator; and without any "condition of acceptability." Detailed information on this topic can be found in the appendix of this catalog.



### HIGHLIGHTS:

- Modular power distribution system — design to suit.
- Space savings design may allow you to move to a smaller enclosure.
- Components to solve wire bending radius issues.
- Power distribution structure that spans a distance through the enclosure.
- Components to mount on top of the busbar structure.
- Parts are designed for versatility — one part can serve two purposes.
- Eliminates point-to-point wiring on the primary side of motor starter components.
- Eliminates power distribution blocks and lengths of duct.

### APPLICATIONS:

- Mounting platform for IEC Motor Controls.
- Power distribution for VFDs and soft starters.
- Mounting for main MCCBs
- Mounting for branch MCCBs
- Adapters for ABB, Allen-Bradley, Cutler-Hammer, GE, Merlin Gerin, Moeller, Siemens and Square-D.
- Mounting for UL Class J, CC and 10x38mm fuses.
- Mounting for International fuses — French Cylindrical, German NH, D and DO-type.
- Connection sets for AWG or flat flexible busbars.
- Centre-feeding for extended ampere range — up to 4000A.

### RATINGS:

- Tinned Copper Busbar:  
12x5mm Bar: 150 amps  
20x5mm Bar: 362 amps  
30x5mm Bar: 500 amps  
12x10mm Bar: 186 amps  
20x10mm Bar: 564 amps  
30x10mm Bar: 756 amps  
500mm<sup>2</sup> TT: 1200 amps  
720mm<sup>2</sup> TT: 1400 amps  
1140mm<sup>2</sup> TTT: 1800 amps
- 600Volts, AC and DC
- SCCR values up to 100kA

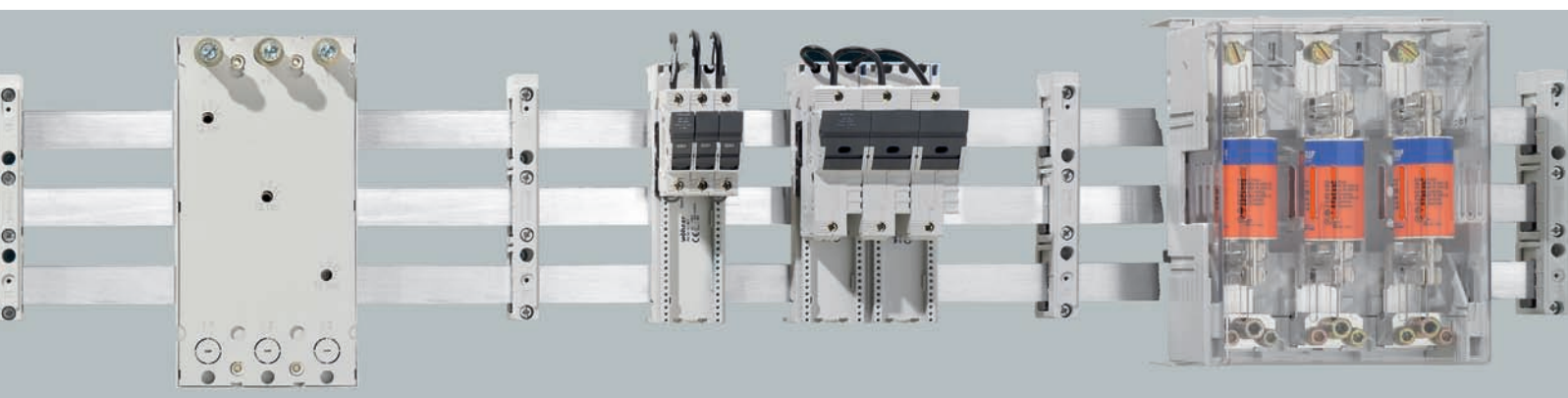
### UL FILE INFORMATION:

- UL File E123577— NMTR, NMTR2
- UL File E230163— IZLT, IZLT2
- UL File E197039— QEUY2

The 60mm busbar system can be segmented into 5 component categories:

**Tinned Copper Busbar and Supports** – The rigid copper conductors of the 60mm system will span a distance – either horizontally or vertically – through the electrical enclosure or closet. Six sizes of rectangular bar can be mounted in a universal busbar support to distribute up to 756 amps of current at up to 600 volts. The solution can be applied for both AC and DC systems. Three sizes of profile busbars – in double-T and triple-T configurations – can be used to distribute up to 1,800 amps of current at 600 volts. Higher current levels can be achieved with some basic design considerations. Spacing of the busbar supports will be determined by the available fault current and the current limiting capabilities of your overcurrent protection devices. Drill and tap the panel for the busbar supports and all other components fasten securely to the structure – saving time and labor.

**Touch-safe Insulating Covers** – The system adapters that mount to the busbar structure serve to cover the rigid copper conductors. Unused sections of busbar can be covered with touch-safe insulators – by phase conductor or by covering all phases together – to protect the system from unintentional contact. These covers can be added to a system design to allow for easy addition of branch circuits to a power distribution panel at a future date. Simply trim the covers from the system and add new adapters for additional branch circuits.



**Power Connections** – Using connection sets or individual connection terminals, we can introduce power to the busbar structure using round AWG wire up to 600MCM or two parallel flat flexible busbars up to 100x10mm. These connection methods can also be used to tap power from the busbars to feed branch circuits. Round wires are subject to wire bending space constraints under UL508A Section 25.3. The use of flat flexible busbar connections can solve these space issues.

**Component Adapters** – Mounting components to the busbar structure is quick and easy and eliminates drilling and tapping the panel for individual components or DIN rails. **EQUES PowerConnectors** are configured specifically for a wide variety of the industries leading manufacturers of molded case circuit breakers. View the table of manufacturers on page 16 of this catalog. Molded case breakers can be mounted for use as a main overcurrent protection device – eliminating the need for a connection set – or for use as a branch circuit protection device. **EQUES EasyConnectors & EQUES MotorControllers** are DIN rail mounting platforms for IEC Motor Control components or any other DIN mountable device.

**Fuseholders** – In addition to our extensive offering of mounting adapters for European fuses we have developed busbar mounted fuse holders for UL Class J, Class CC and midget (1-1/2" x 13/32") fuses. Our DIN mounted fuse holders for ferrule fuses are easily applied to the **EQUES EasyConnector** adapters or to DIN rail in the panel. The **AMBUS EasyLiner** offers space savings in a busbar mounting for midget and Class CC fuses. UL Class J busbar adapters are available for 30A and 60A ferrule size fuses and 100A, 200A and 400A blade sized fuses. These blade fuse holders are also available in panel mount designs and offer integral touchsafe covers.

## Standard Flat copper busbars, tin-plated, shorter lengths on request

|           |                           |                     | 47.2" (1.2m) per piece |                 | 94.5" (2.4m) per piece |                 |
|-----------|---------------------------|---------------------|------------------------|-----------------|------------------------|-----------------|
| Dimension | Current Capacity UL (IEC) | UL508A              | Part No.               | Weight lbs./ea. | Part No.               | Weight lbs./ea. |
| 12x5      | 150A (200A)               | cⓁ <sub>UL</sub> us | 0161812                | 1.41            | 01618                  | 2.82            |
| 20x5      | 362A (320A)               |                     | 0162012                | 2.35            | 01620                  | 4.70            |
| 30x5      | 500A (450A)               |                     | 0162212                | 3.52            | 01622                  | 7.05            |
|           |                           |                     |                        |                 |                        |                 |
| 12x10     | 186A (360A)               | cⓁ <sub>UL</sub> us | 0162312                | 2.82            | 01623                  | 5.65            |
| 20x10     | 564A (520A)               |                     | 0162412                | 4.71            | 01624                  | 9.42            |
| 30x10*    | 756A (630A)               |                     | 0162512*               | 7.05            | 01625*                 | 14.10           |

\* also available in 141.7" (3.6m) lengths

## Profile Section copper busbars, shorter lengths on request

|                          |                           |                                                                                   | 94.5" (2.4m) per piece |                 | 141.7" (3.6m) per piece |                 |
|--------------------------|---------------------------|-----------------------------------------------------------------------------------|------------------------|-----------------|-------------------------|-----------------|
| Dimension                | Current Capacity UL (IEC) | UL508A                                                                            | Part No.               | Weight lbs./ea. | Part No.                | Weight lbs./ea. |
| TT, 500mm <sup>2</sup>   | 1200A (1250A)             |  | 01609                  | 22.97           | 01224                   | 34.45           |
| TTT, 720mm <sup>2</sup>  | 1400A (1600A)             |                                                                                   | 01608                  | 33.88           | 01190                   | 50.82           |
| TTT, 1140mm <sup>2</sup> | 1800A* (2500A)            |                                                                                   | 01187                  | 53.89           | 01227                   | 80.39           |
| TCC, 1600mm <sup>2</sup> | 2480A                     |                                                                                   | 01610                  | 74.96           |                         |                 |

\* TTT section busbar is UL rated for 2000A within 31.5" (800mm) of the primary power connection. part no 01204 (21.14 lbs./ea.)

## Flexible busbars, plain and tinned Cu, insulated, 2000mm (78.75") long

| Dimension          | Rated Current 75° C | Cross Section mm <sup>2</sup> | Pack Size | Weight* lbs/ea. | Tinned | UL508A                                                                                | Plain |
|--------------------|---------------------|-------------------------------|-----------|-----------------|--------|---------------------------------------------------------------------------------------|-------|
| 3 x 9 x 0.8 mm     | 141A                | 21.6                          | 1         | 0.84            | 01083  |  | 01054 |
| 6 x 9 x 0.8 mm     | 210A                | 43.2                          | 1         | 1.69            | 01084  |                                                                                       | 01194 |
| 4 x 13 x 0.5 mm    | 166A                | 26                            | 1         | 1.17            |        |                                                                                       | 01322 |
| 6 x 13 x 0.5 mm    | 207A                | 39                            | 1         | 1.53            | 01146  |                                                                                       | 01050 |
| 4 x 15.5 x 0.8 mm  | 244A                | 49.6                          | 1         | 1.94            | 01089  |                                                                                       | 01196 |
| 6 x 15.5 x 0.8 mm  | 306A                | 74.4                          | 1         | 2.91            | 01090  |                                                                                       | 01035 |
| 10 x 15.5 x 0.8 mm | 411A                | 124                           | 1         | 4.86            | 01091  |                                                                                       | 01583 |
| 3 x 20 x 1 mm      | 286A                | 60                            | 1         | 2.35            | 01062  |                                                                                       | 01027 |
| 6 x 20 x 1 mm      | 418A                | 120                           | 1         | 4.70            | 01063  |                                                                                       | 01028 |
| 10 x 20 x 1 mm     | 560A                | 200                           | 1         | 7.83            | 01064  |                                                                                       | 01029 |
| 4 x 24 x 1 mm      | 383A                | 96                            | 1         | 3.76            |        |                                                                                       | 01253 |
| 5 x 24 x 1 mm      | 433A                | 120                           | 1         | 4.70            | 01075  |                                                                                       | 01611 |
| 6 x 24 x 1 mm      | 479A                | 144                           | 1         | 5.64            |        |                                                                                       | 01255 |
| 8 x 24 x 1 mm      | 562A                | 192                           | 1         | 7.57            |        |                                                                                       | 01323 |
| 10 x 24 x 1 mm     | 637A                | 240                           | 1         | 9.40            | 01076  |                                                                                       | 01184 |
| 5 x 32 x 1 mm      | 540A                | 160                           | 1         | 5.61            | 01095  |                                                                                       | 01612 |
| 10 x 32 x 1 mm     | 783A                | 320                           | 1         | 12.53           | 01096  |                                                                                       | 01613 |
| 5 x 40 x 1 mm      | 644A                | 200                           | 1         | 7.83            | 01097  |                                                                                       | 01614 |
| 6 x 40 x 1 mm      | 708A                | 240                           | 1         | 9.40            |        |                                                                                       | 01256 |
| 10 x 40 x 1 mm     | 922A                | 400                           | 1         | 15.66           | 01099  |                                                                                       | 01615 |
| 5 x 50 x 1 mm      | 770A                | 250                           | 1         | 9.79            | 01112  |                                                                                       | 01060 |
| 8 x 50 x 1 mm      | 975A                | 400                           | 1         | 17.03           |        |                                                                                       | 01343 |
| 10 x 50 x 1 mm     | 1089A               | 500                           | 1         | 19.59           | 01113  |                                                                                       | 01509 |
| 5 x 63 x 1 mm      | 929A                | 315                           | 1         | 12.34           |        |                                                                                       | 01324 |
| 10 x 63 x 1 mm     | 1296A               | 630                           | 1         | 24.67           | 01123  |                                                                                       | 01510 |
| 10 x 80 x 1 mm     | 1556A               | 800                           | 1         | 31.33           |        |                                                                                       | 01061 |
| 10 x 100 x 1 mm    | 1848A               | 1000                          | 1         | 39.16           |        |                                                                                       | 01273 |

\* The weight specified is the pure copper weight, it does not include the weight of the insulation.



### Standard Busbar support, suitable for busbars 12, 20, 30 x 5/10

| Dimension                                                                                   | Pack Size | Weight lbs./ea. | UL508A | Part No. |
|---------------------------------------------------------------------------------------------|-----------|-----------------|--------|----------|
| 3-pole UL busbar support, with internal screw holes, suitable for busbars 12, 20, 30 x 5/10 | 10        | 0.31            | cULUS  | 01508    |
| 18mm 3-pole Standoff, for 01508, alternative to base plate                                  | 10        | 0.20            |        | 01358    |
| 1-pole support, suitable for busbars 12, 20, 30 x 5/10*                                     | 1         | 0.13            |        | 01601    |
| UL busbar support, suitable for busbars 12,20,30 x 5/10                                     | 10        | 0.30            |        | 01357    |
| 18mm 4-pole Standoff, for 01357, alternative to base plate                                  | 10        | 0.59            |        | 01359    |
| End cover, for covering busbar ends, use with 01508                                         | 10        | 0.04            | cULUS  | 01573    |

\* 01601 includes earth and neutral labels

### Profile Busbar support and End Cover, for double-T and triple-T sections

| Type                                | Pack Size | Weight lbs./ea. | UL508A | Part No. |
|-------------------------------------|-----------|-----------------|--------|----------|
| Double-T, 1-pole, without end cover | 10        | 0.35            | cULUS  | 01876    |
| Double-T, 3-pole, without end cover | 3         | 1.30            | cULUS  | 01231    |
| Triple-T, 1-pole, without end cover | 4         | 0.42            |        | 01132    |
| Triple-T, 3-pole, without end cover | 2         | 1.53            | cULUS  | 01232    |
| End Cover for 01231 and 01232       | 4         | 0.11            | cULUS  | 01234    |

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

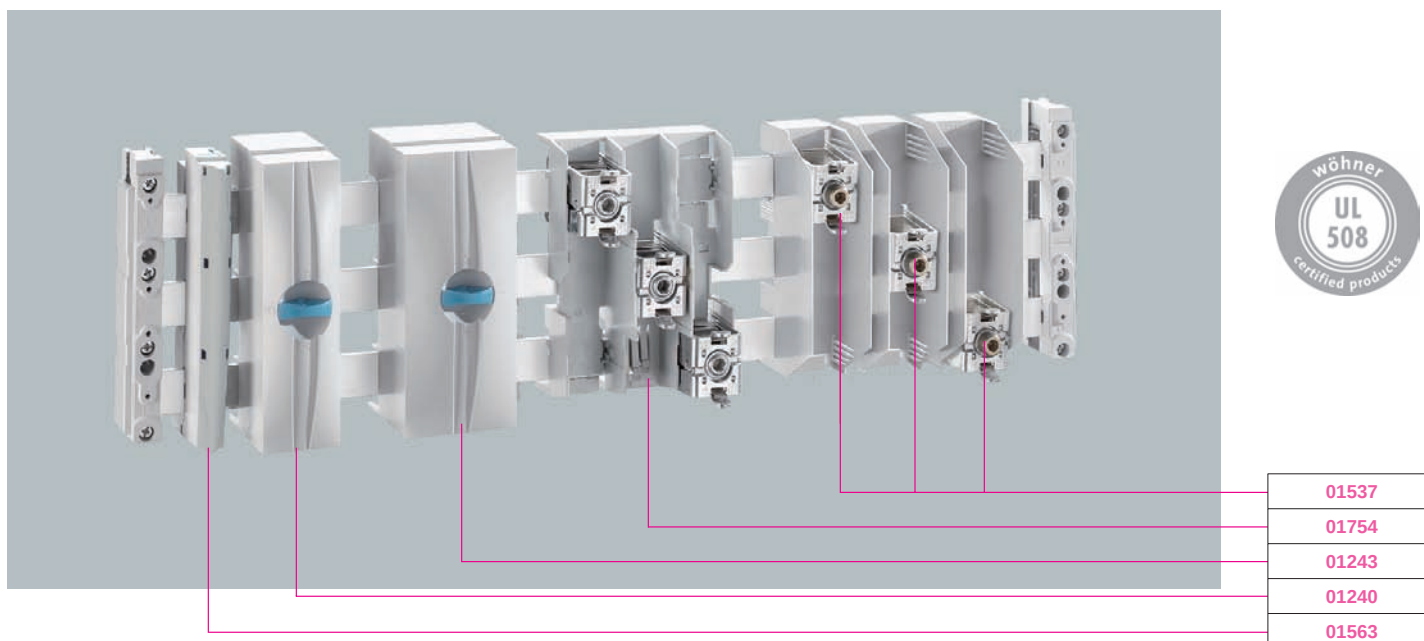
| Type       | Pack Size | Weight lbs./ea. | UL508A | Part No. |
|------------|-----------|-----------------|--------|----------|
| 240 x 1100 | 2         | 1.62            | cULUS  | 01518    |
| 240 x 700  | 2         | 1.03            |        | 01515    |

### Holder, for laminated flexible busbars

| Type                            | Pack Size | Weight lbs./ea. | UL508A | Part No. |
|---------------------------------|-----------|-----------------|--------|----------|
| for up to 10mm lamination packs | 4         | 0.10            |        | 01303    |

4 supports fasten to one 35mm symmetric DIN mounting rail 1 DIN 35mm mounting rail (EN 60715) are required to fix a 3-pole connection





01537

01754

01243

01240

01563

**CRITO®ProfiLiner**, connection module for 12 - 30 x 5/10mm, three-pole, shock-protected

| Connection | WxH    | For use   | Pack Size | Weight lbs./ea. | UL508A | Part No. |
|------------|--------|-----------|-----------|-----------------|--------|----------|
| AWG        |        | up to max |           |                 |        |          |
| AWG 16 - 4 | 20x200 | 80A       | 8         | 0.40            | cULUS  | 01563    |

**Connecting terminal plate**, for 12 - 30 x 5/10mm, double-T and triple-T, 3-pole, with cover cap

|                                                           |        |      |   |      |       |       |
|-----------------------------------------------------------|--------|------|---|------|-------|-------|
| AWG 10 - 1/0, s(r), f, f+AE, la. Cu 6 x 9 x 0.8           | 54x200 | 300A | 1 | 0.99 | cULUS | 01240 |
| AWG 2 - 250MCM, s(r), f, f+AE, la. Cu 6 / 10 x 15.5 x 0.8 | 81x200 | 440A | 1 | 1.18 |       | 01243 |

**Connecting terminal plate**, for 12 - 30 x 5/10mm, double-T and triple-T, 3-pole, with cover cap

|                                            |         |      |   |      |  |       |
|--------------------------------------------|---------|------|---|------|--|-------|
| Cu and Al* AWG 3/0 - 350MCM, s(r), s(s), f | 135x200 | 460A | 1 | 2.91 |  | 01199 |
| Cu and Al* 300 - 600MCM, s(r), s(s), f     | 135x200 | 560A | 1 | 3.65 |  | 01754 |
| for la. Cu up to 32 x 20**                 | 135x200 | 800A | 1 | 3.18 |  | 01753 |

\*not maintenance-free when aluminium conductors are used. \*\*observe minimum terminal space.

**Connection Set**, 3-pole, for 20 – 30 x 5/10mm, double-T and triple-T, without cover cap

| Connection                                 | WxH      | For use   | Pack Size | Weight lbs./ea. | UL508A | Part No. |
|--------------------------------------------|----------|-----------|-----------|-----------------|--------|----------|
|                                            |          | up to max |           |                 |        |          |
| Cu and Al* AWG 4/0 - 600MCM, s(r), s(s), f | ≥153x184 | 560A      | 1         | 3.42            | cULUS  | 01537    |
| Flat busbars up to 32 x 20mm               | ≥153x184 | 800A      | 1         | 2.92            |        | 01538    |

\*not maintenance-free when aluminium conductors are used

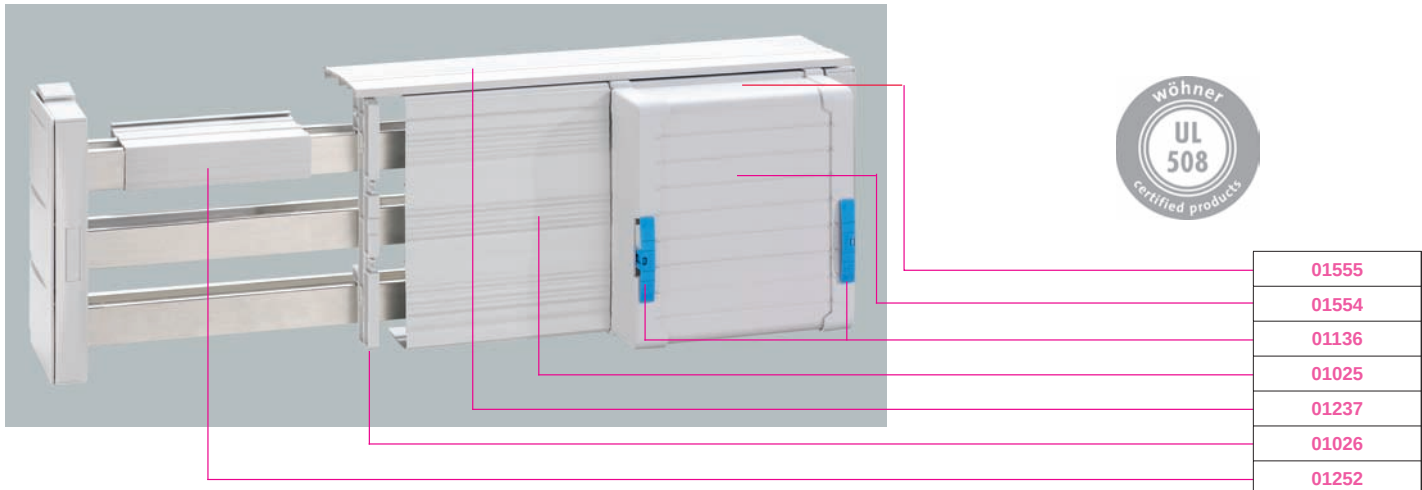
**Connection Set**, 4-pole, for 20 – 30 x 5/10mm, double-T and triple-T, without cover cap

|                                            |          |      |   |      |       |       |
|--------------------------------------------|----------|------|---|------|-------|-------|
| Cu and Al* AWG 4/0 - 600MCM, s(r), s(s), f | ≥204x244 | 560A | 1 | 4.62 | cULUS | 01147 |
| Flat busbars up to 32 x 20mm               | ≥204x244 | 800A | 1 | 3.96 |       | 01162 |

\*not maintenance-free when aluminium conductors are used

**Accessories**

| Type                                                     | Pack Size | Weight lbs./ea. | UL508A | Part No. |
|----------------------------------------------------------|-----------|-----------------|--------|----------|
| Individual replacement covers for the terminals in 01240 | 3         | 0.01            | cULUS  | 01300    |
| Individual replacement covers for the terminals in 01243 | 3         | 0.01            |        | 01301    |

**Busbar Cover**

| Type                               | Pack Size | Weight lbs./ea. | UL508A | Part No. |
|------------------------------------|-----------|-----------------|--------|----------|
| for 12 – 30 x 5, 1m long           | 10        | 0.19            | cULus  | 01244    |
| for 12 – 30 x 10, 1m long          | 10        | 0.22            |        | 01245    |
| for double-T and triple-T, 1m long | 5         | 0.84            |        | 01252    |
| for 12 x 5, 1m long                | 10        | 0.07            |        | 78463    |

**Reserve section cover, 3-pole**

|                                                                   |    |      |       |       |
|-------------------------------------------------------------------|----|------|-------|-------|
| cover section, 1100mm long, can only be used with mount no. 01026 | 2  | 1.65 | cULus | 01025 |
| mount for cover section no. 01025                                 | 10 | 0.09 |       | 01026 |

can be used for systems with 12 - 30 x 5/10mm busbars, double-T and triple-T

**System cover, 3-pole**

|                                                                                        |   |      |       |       |
|----------------------------------------------------------------------------------------|---|------|-------|-------|
| holder set (left + right) for cover sections, 3-pole                                   | 1 | 0.40 | cULus | 01136 |
| front cover section (3-pole), 1100mm long, can only be used with holder no. 01136      | 1 | 0.99 |       | 01554 |
| Top/bottom cover section, 1100mm long, can only be used with holder no. 01136 or 01137 | 2 | 0.60 |       | 01555 |

can be used for systems with 12 - 30 x 5/10mm busbars, double-T and triple-T

**System cover, 4-pole**

|                                                                                        |   |      |       |       |
|----------------------------------------------------------------------------------------|---|------|-------|-------|
| holder set (left + right) for cover sections, 4-pole                                   | 1 | 0.46 | cULus | 01137 |
| front cover section (4-pole), 1100mm long, can only be used with holder no. 01137      | 1 | 1.28 |       | 01599 |
| top/bottom cover section, 1100mm long, can only be used with holder no. 01136 or 01137 | 2 | 0.60 |       | 01555 |

can be used for systems with 12 - 30 x 5/10mm busbars, double-T and triple-T

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

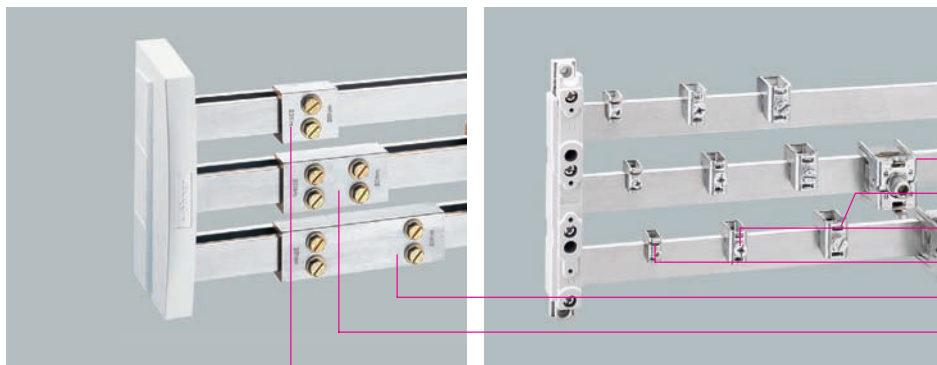
|                       |   |      |  |       |
|-----------------------|---|------|--|-------|
| 48mm deep, 2.4m long  | 1 | 1.54 |  | 01236 |
| 76mm deep, 2.4m long  | 1 | 2.31 |  | 01237 |
| 106mm deep, 2.4m long | 1 | 3.08 |  | 01238 |

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

| Type WxHxD     | For Busbars                           | Pack Size | Weight lbs./ea. | UL508A | Part No. |
|----------------|---------------------------------------|-----------|-----------------|--------|----------|
| 135 x 200 x 90 | 20 – 30 x 5/10, double-T and triple-T | 1         | 0.65            | cULus  | 01756    |
| 180 x 200 x 90 | 12 – 30 x 5/10, double-T and triple-T | 1         | 0.73            |        | 01539    |
| 228 x 200 x 90 | 30 x 5/10, double-T and triple-T      | 1         | 0.82            |        | 01596    |
| 250 x 200 x 90 | 12 – 30 x 5/10, double-T and triple-T | 1         | 0.86            |        | 01540    |
| 270 x 200 x 90 | 20 – 30 x 5/10, double-T and triple-T | 1         | 1.42            |        | 01757    |

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

|                |                                       |   |      |       |       |
|----------------|---------------------------------------|---|------|-------|-------|
| 228 x 260 x 90 | 12 – 30 x 5/10, double-T and triple-T | 1 | 0.99 | cULus | 01597 |
|----------------|---------------------------------------|---|------|-------|-------|



|       |
|-------|
| 01318 |
| 01292 |
| 01290 |
| 01289 |
| 01829 |
| 01145 |
| 01827 |

### Universal conductor terminal

| Busbars                     | Connection      | Terminal Space | For Use    | Pack Size | Weight   | UL508A | Part No. |
|-----------------------------|-----------------|----------------|------------|-----------|----------|--------|----------|
|                             | AWG min. – max. | WxH            | up to max. |           | Lbs./Ea. |        |          |
| 5mm flat busbars            | AWG 16-6        | 7.5 x 7.5      | 180A       | 100       | 0.05     |        | 01284    |
|                             | AWG 12-2        | 10.5 x 11      | 270A       | 50        | 0.10     |        | 01285    |
|                             | AWG 6-2/0       | 14 x 14        | 400A       | 25        | 0.16     |        | 01287    |
|                             | AWG 6-250MCM    | 17 x 15        | 440A       | 25        | 0.23     |        | 01068    |
| 10mm flat busbars           | AWG 16-6        | 7.5x7.5        | 180A       | 100       | 0.05     |        | 01289    |
|                             | AWG 12-2        | 10.5x11        | 270A       | 50        | 0.10     |        | 01290    |
| 10mm, double-T and triple-T | AWG 6-2/0       | 14x14          | 400A       | 25        | 0.17     |        | 01292    |
|                             | AWG 6-250MCM    | 17x15          | 440A       | 25        | 0.24     |        | 01203    |

### CRITO®ProfiClip, brace terminals

| Busbars                                 |                                | For Use    | Pack Size | Weight   | UL508A | Part No. |
|-----------------------------------------|--------------------------------|------------|-----------|----------|--------|----------|
|                                         |                                | up to max. |           | Lbs./Ea. |        |          |
| 20 x 5 – 30 x 10, double-T and triple-T | for flat busbars up to 30 x 20 | 750A       | 6         | 0.67     |        | 01319    |
|                                         | Cu and Al* AWG 3/0 - 350MCM    | 500A       | 6         | 0.69     |        | 01318    |
|                                         | for flat busbars up to 32 x 20 | 800A       | 3         | 0.76     |        | 01759    |
|                                         | Cu and Al* 250MCM - 600MCM     | 600A       | 3         | 0.94     |        | 01760    |

\* not maintenance-free when aluminium conductors are used

### Busbar connector, for same-size busbars

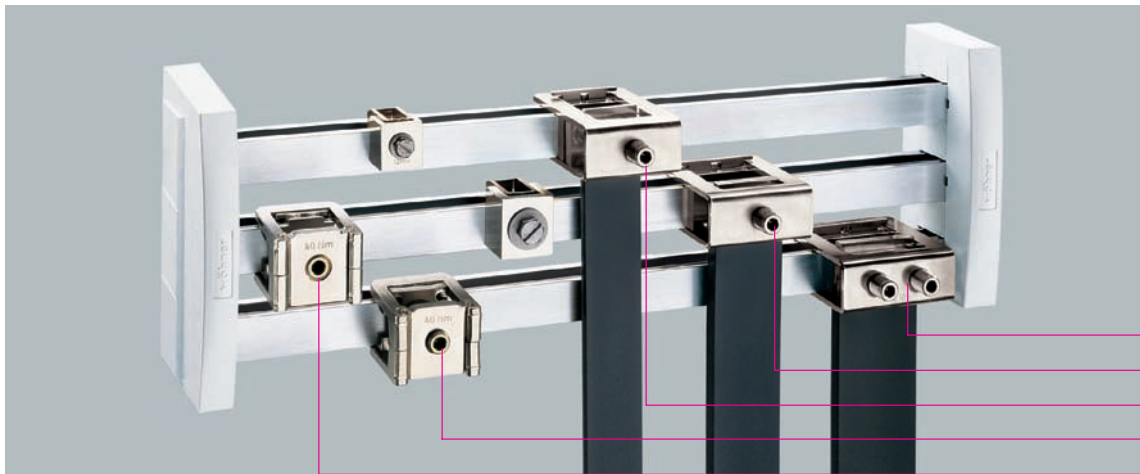
| Busbars          | Length | System  | For use    | Pack Size | Weight   | UL508A | Part No. |
|------------------|--------|---------|------------|-----------|----------|--------|----------|
|                  |        | Spacing | up to max. |           | Lbs./Ea. |        |          |
| 12 – 20 x 5 / 10 | 55     | 5-10    | 630A       | 12        | 0.42     |        | 01166    |
|                  | 150    | 100-110 | 630A       | 3         | 1.15     |        | 01193    |
| 20 – 30 x 5 / 10 | 40     | 9-20    | 630A       | 6         | 0.51     |        | 01990    |
|                  | 40     | 13-20   | 630A       | 6         | 0.55     |        | 01823    |
|                  | 95     | 50-60   | 630A       | 3         | 1.20     |        | 01141    |
|                  | 150    | 100-110 | 630A       | 3         | 1.91     |        | 01886    |
| double-T section | 50     | 9-20    | 1600A      | 6         | 1.09     |        | 01827    |
|                  | 95     | 50-60   | 1600A      | 3         | 2.07     |        | 01145    |
|                  | 150    | 100-110 | 1600A      | 3         | 3.21     |        | 01829    |
| triple-T section | 95     | 50-60   | 2500A      | 3         | 2.65     |        | 01274    |
|                  | 150    | 100-110 | 2500A      | 3         | 3.92     |        | 01275    |

\* UL recognized when used with 01360, 01361 & 01362

### Set of separators for UL butt connections, 3 poles, including support

| Connection cross-section                        | Width | Pack Size | Weight   | UL508A | Part No. |
|-------------------------------------------------|-------|-----------|----------|--------|----------|
|                                                 |       |           | Lbs./Ea. |        |          |
| Phase separator for 01166, 01990, 01823, 01827* | 105   | 1         | 0.38     |        | 01360    |
| Phase separator for 01141, 01145, 01274*        | 145   | 1         | 0.43     |        | 01361    |
| Phase separator for 01193, 01886, 01829, 01275  | 200   | 1         | 0.48     |        | 01362    |

\*The separators must be shortened according to the depth of the various connections



01907  
01906  
01185  
01092  
01094

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

| Connection cross-section   | Terminal Space | For Use        | Pack Size | Weight   | UL508A | Part No. |
|----------------------------|----------------|----------------|-----------|----------|--------|----------|
|                            | WxH            | up to max.     |           | Lbs./Ea. |        |          |
| 320 – 800mm <sup>2</sup>   | 41 x 20 – 42   | 1600A          | 3         | 1.47     |        | 01185    |
| 500 – 750mm <sup>2</sup>   | 51 x 5 – 28    | 1600A          | 3         | 1.55     |        | 01906    |
| 600 – 900mm <sup>2</sup>   | 64 x 5 – 28    | 1600A          | 3         | 1.85     |        | 01907    |
| 500 – 1000mm <sup>2</sup>  | 51 x 20 – 42   | 1600A / 2000A* | 3         | 1.62     |        | 01936    |
| 600 – 1200mm <sup>2</sup>  | 64 x 20 – 42   | 1600A / 2000A* | 3         | 1.89     |        | 01911    |
| 800 – 1600mm <sup>2</sup>  | 81 x 20 – 42   | 1600A / 2500A* | 3         | 2.22     |        | 01934    |
| 1000 – 2000mm <sup>2</sup> | 101 x 20 – 42  | 1600A / 2500A* | 3         | 2.50     |        | 01935    |

for connecting flat busbars and flexible copper busbars

\* for centre feeding

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

|                            |               |       |   |      |  |       |
|----------------------------|---------------|-------|---|------|--|-------|
| 320 – 860mm <sup>2</sup>   | 41 x 23 – 45  | 1600A | 3 | 2.31 |  | 01513 |
| 500 – 1260mm <sup>2</sup>  | 64 x 23 – 45  | 2500A | 3 | 2.73 |  | 01008 |
| 1200 – 3600mm <sup>2</sup> | 101 x 23 – 45 | 3200A | 3 | 3.80 |  | 01186 |

### CRITO®PowerClip, brace terminal for busbars 30 x 10 and section busbars

| Busbars                                | Terminal Space | For Use        | Pack Size | Weight   | UL508A | Part No. |
|----------------------------------------|----------------|----------------|-----------|----------|--------|----------|
|                                        | WxH            | up to max.     |           | Lbs./Ea. |        |          |
| 30 x 10, double-T and triple-T profile | 55 x 28        | 1600A / 2000A* | 3         | 1.17     |        | 01069    |
|                                        | 68 x 28        | 1600A / 2000A* | 3         | 1.39     |        | 01070    |
|                                        | 105 x 28       | 1600A / 2800A* | 3         | 1.85     |        | 01071    |

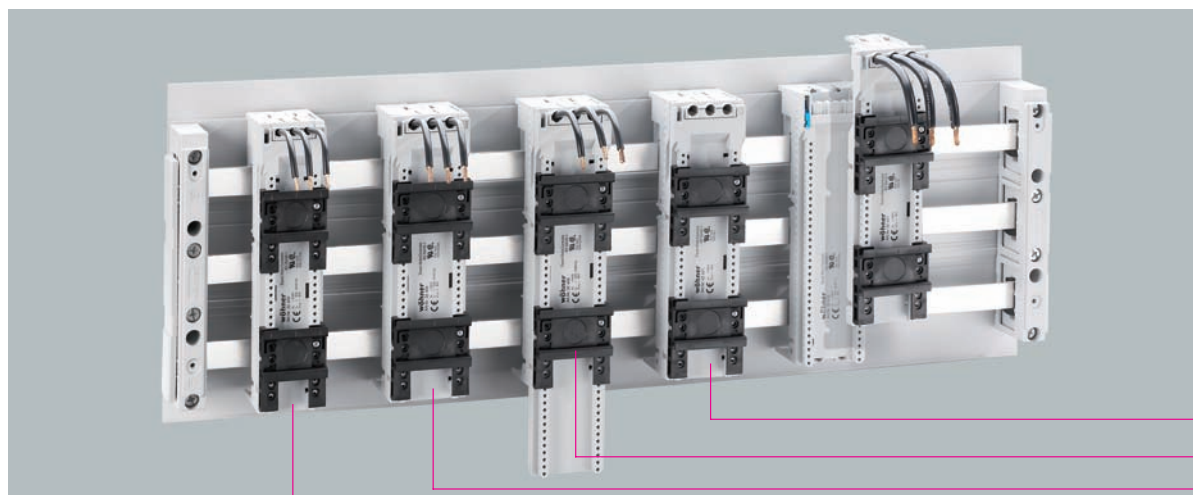
for the connection of flat and flexible copper busbars

\*in case of centre feed

### Connection terminal

| Busbars                                | Terminal Space | For Use    | Pack Size | Weight   | UL508A | Part No. |
|----------------------------------------|----------------|------------|-----------|----------|--------|----------|
|                                        | WxH            | up to max. |           | Lbs./Ea. |        |          |
| 30 x 10, double-T and triple-T section | 3/0 - 600MCM   | 630A       | 3         | 1.89     |        | 01094    |
|                                        | 40 x 25        | 1250A      | 3         | 1.80     |        | 01092    |



**32421****32416****32404****32400****EQUES® MotorController 25A, busbar adapter with leads AWG12 (4mm<sup>2</sup>)**

| Model                                                             | Adapter width | Adapter length | Pack Size | Weight lbs./ea. | UL508A            | Part No.     |
|-------------------------------------------------------------------|---------------|----------------|-----------|-----------------|-------------------|--------------|
| 16A, 2 mounting rails, conductors 2.5mm <sup>2</sup> , 125mm long | 45            | 200            | 4         | 0.94            | cUL <sub>US</sub> | 32401        |
| 2 mounting rails                                                  | 45            | 200            | 4         | 0.94            |                   | <b>32400</b> |
| 2 mounting rails                                                  | 45            | 260            | 4         | 0.99            |                   | 32402        |

**EQUES® MotorController 32A, busbar adapter with leads AWG10 (6mm<sup>2</sup>)**

|                  |    |     |   |      |                   |              |
|------------------|----|-----|---|------|-------------------|--------------|
| 2 mounting rails | 54 | 200 | 4 | 1.08 | cUL <sub>US</sub> | <b>32404</b> |
| 2 mounting rails | 54 | 260 | 4 | 1.20 |                   | 32408        |

**EQUES® MotorController 45A, busbar adapter with leads AWG8 (10mm<sup>2</sup>)**

|                  |    |     |   |      |                   |              |
|------------------|----|-----|---|------|-------------------|--------------|
| 2 mounting rails | 54 | 200 | 4 | 1.16 | cUL <sub>US</sub> | 32412        |
| 2 mounting rails | 54 | 260 | 4 | 1.25 |                   | <b>32416</b> |

**EQUES® MotorController empty, busbar adapter without electrical contacts**

|                                                |    |     |    |      |                   |              |
|------------------------------------------------|----|-----|----|------|-------------------|--------------|
| 2 mounting rails                               | 45 | 200 | 4  | 0.77 | cUL <sub>US</sub> | <b>32420</b> |
| 2 mounting rails                               | 54 | 200 | 4  | 0.85 |                   | 32421        |
| 2 mounting rails                               | 45 | 260 | 4  | 0.80 |                   | 32425        |
| 2 mounting rails                               | 54 | 260 | 4  | 0.93 |                   | 32426        |
| side-mounted module, connectable on both sides | 9  | 200 | 10 | 0.09 |                   | 32964        |

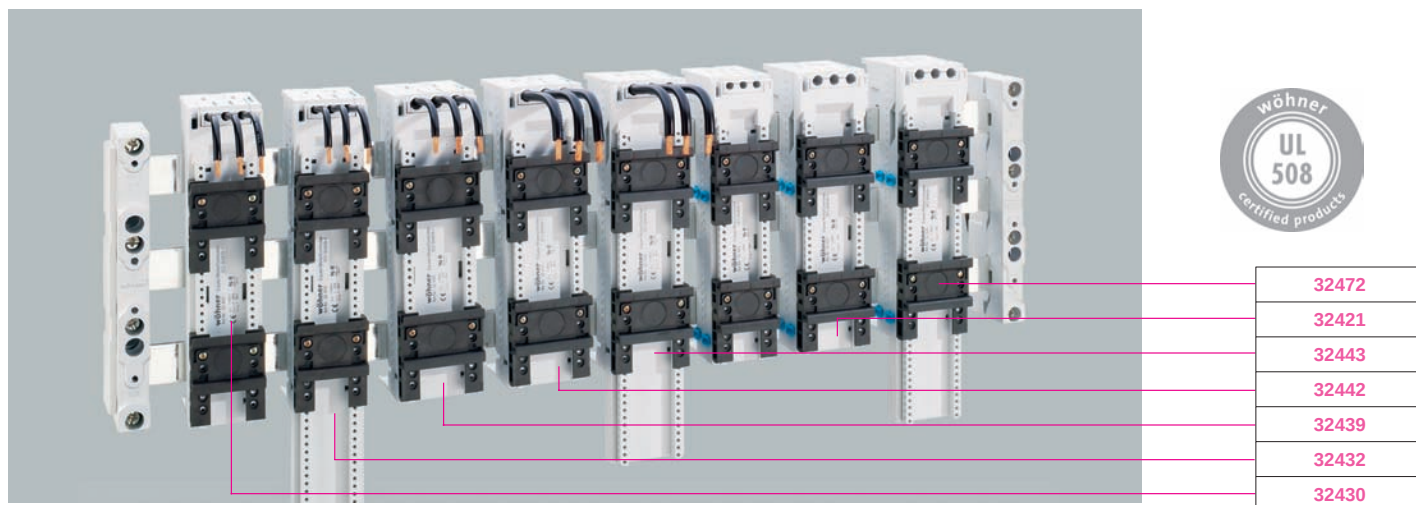
**Microswitch, to interrupt the coil current**

|                |  |  |    |       |                   |       |
|----------------|--|--|----|-------|-------------------|-------|
| 1N/C, 250V, 5A |  |  | 10 | 0.02q | cUL <sub>US</sub> | 32956 |
|----------------|--|--|----|-------|-------------------|-------|

*All adapters for busbars 12 - 30 x 5/10mm, double-T and triple-T-section.*

**Accessories EQUES® Technology**

|                                             |    |  |    |      |                   |       |
|---------------------------------------------|----|--|----|------|-------------------|-------|
| mounting rail                               | 45 |  | 10 | 0.03 | cUL <sub>US</sub> | 32947 |
| mounting rail                               | 54 |  | 10 | 0.03 |                   | 32948 |
| mounting rail                               | 63 |  | 10 | 0.04 |                   | 32949 |
| mounting rail                               | 72 |  | 10 | 0.04 |                   | 32950 |
| mounting rail                               | 81 |  | 10 | 0.05 |                   | 32951 |
| mounting rail end stop                      |    |  | 50 | 0.00 |                   | 32969 |
| connecting element                          |    |  | 50 | 0.00 |                   | 32954 |
| 8-pole, 250V, plug-in connector with mount  | 45 |  | 10 | 0.07 |                   | 32511 |
| 10-pole, 250V, plug-in connector with mount | 54 |  | 10 | 0.16 |                   | 32513 |

**EQUES® EasyConnector 25A, busbar adapter with leads AWG 12 (4mm<sup>2</sup>)**

| Type             | Adapter width | Adapter length | Pack Size | Weight lbs./ea. | UL508A            | Part No. |
|------------------|---------------|----------------|-----------|-----------------|-------------------|----------|
| 1 mounting rail  | 45            | 200            | 4         | 0.72            | cUL <sub>US</sub> | 32430    |
| 2 mounting rails | 45            | 200            | 4         | 0.72            |                   | 32431    |
| 2 mounting rails | 90            | 200            | 2         | 1.26            |                   | 32432    |
| 2 mounting rails | 45            | 260            | 4         | 0.79            |                   | 32433    |

**EQUES® EasyConnector 25A, busbar adapter, with AWG 10 (6mm<sup>2</sup>) terminals, without leads**

|                  |    |     |   |      |                   |       |
|------------------|----|-----|---|------|-------------------|-------|
| 2 mounting rails | 45 | 200 | 4 | 0.71 | cUL <sub>US</sub> | 32436 |
| 2 mounting rails | 45 | 260 | 4 | 0.77 |                   | 32439 |

**EQUES® EasyConnector 32A, busbar adapter with leads AWG 10 (6mm<sup>2</sup>)**

|                  |    |     |   |      |                   |       |
|------------------|----|-----|---|------|-------------------|-------|
| 1 mounting rail  | 54 | 200 | 4 | 0.81 | cUL <sub>US</sub> | 32441 |
| 2 mounting rails | 54 | 200 | 4 | 0.84 |                   | 32442 |
| 1 mounting rail  | 63 | 200 | 4 | 0.92 |                   | 32443 |
| 1 mounting rail  | 72 | 200 | 4 | 0.97 |                   | 32444 |
| 2 mounting rails | 81 | 200 | 4 | 1.09 |                   | 32446 |
| 2 mounting rails | 54 | 260 | 4 | 0.95 |                   | 32449 |

**EQUES® EasyConnector 63A, busbar adapter with leads AWG 8 (10mm<sup>2</sup>)**

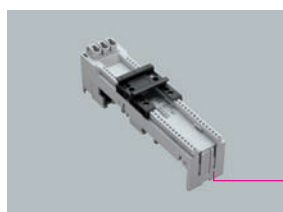
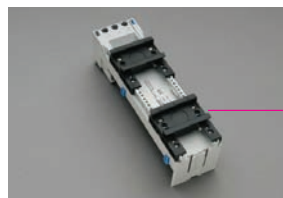
|                  |    |     |   |      |                   |       |
|------------------|----|-----|---|------|-------------------|-------|
| 1 mounting rail  | 54 | 200 | 4 | 0.86 | cUL <sub>US</sub> | 32454 |
| 2 mounting rails | 54 | 200 | 4 | 0.90 |                   | 32455 |
| 1 mounting rail  | 63 | 200 | 4 | 0.99 |                   | 32456 |
| 1 mounting rail  | 72 | 200 | 4 | 1.05 |                   | 32457 |
| 2 mounting rails | 81 | 200 | 4 | 1.13 |                   | 32459 |
| 2 mounting rails | 54 | 260 | 4 | 0.95 |                   | 32461 |

**EQUES® EasyConnector 80A, busbar adapter, with AWG 6 (16mm<sup>2</sup>) terminals, without leads**

|                                                   |    |     |   |      |                   |       |
|---------------------------------------------------|----|-----|---|------|-------------------|-------|
| 1 mounting rail                                   | 54 | 200 | 4 | 0.82 | cUL <sub>US</sub> | 32466 |
| 2 mounting rails                                  | 54 | 200 | 4 | 0.86 |                   | 32467 |
| 1 mounting rail                                   | 72 | 200 | 4 | 0.99 |                   | 32469 |
| 2 mounting rail                                   | 54 | 260 | 4 | 0.96 |                   | 32472 |
| UL terminal cap for 32436 and 32439               | 45 |     | 4 | 0.02 |                   | 32973 |
| UL terminal cap for 32466, 32467, 32469 and 32472 | 54 |     | 4 | 0.02 |                   | 32974 |

**Earth/neutral adapter module, with AWG 6 (16mm<sup>2</sup>) terminals, top and bottom**

|                                             |    |     |   |      |                   |       |
|---------------------------------------------|----|-----|---|------|-------------------|-------|
| for EEC adaptors, connectable on both sides | 18 | 260 | 4 | 0.31 | cUL <sub>US</sub> | 32146 |
|---------------------------------------------|----|-----|---|------|-------------------|-------|



32478

32486

32168

32214

**EQUES® EasyConnector**

| Type                                                                         | Adapter | Adapter | Pack Size | Weight   | UL508A | Part No. |
|------------------------------------------------------------------------------|---------|---------|-----------|----------|--------|----------|
|                                                                              | width   | length  |           | lbs./ea. |        |          |
| 32A, special type with spring terminals AWG 16-10 at front, 1 mounting rail  | 45      | 200     | 4         | 0.72     |        | 32486    |
| 32A, special type with spring terminals AWG 16-10 at front, 2 mounting rails | 45      | 200     | 4         | 0.78     |        | 32487    |

**EQUES® EasyConnector empty, busbar adapter without electrical contacts**

|                                                |    |     |    |      |  |       |
|------------------------------------------------|----|-----|----|------|--|-------|
| universal                                      | 45 | 200 | 4  | 0.55 |  | 32477 |
| universal                                      | 54 | 200 | 4  | 0.61 |  | 32478 |
| universal                                      | 45 | 260 | 4  | 0.61 |  | 32484 |
| universal                                      | 54 | 260 | 4  | 0.65 |  | 32485 |
| side-mounted module, connectable on both sides | 9  | 200 | 10 |      |  | 32963 |

**Universal busbar adapter**

| Type                             | Adapter | Adapter | Pack Size | Weight   | UL508 | Part No. |
|----------------------------------|---------|---------|-----------|----------|-------|----------|
|                                  | width   | length  |           | lbs./ea. |       |          |
| 200A top connection to system    | 108     | 222     | 1         | 1.85     |       | 32214    |
| 200A bottom connection to system | 108     | 222     | 1         | 1.89     |       | 32215    |
| 250A top connection to system    | 110     | 320     | 1         | 3.53     |       | 32168    |
| 250A bottom connection to system | 110     | 320     | 1         | 3.61     |       | 32216    |

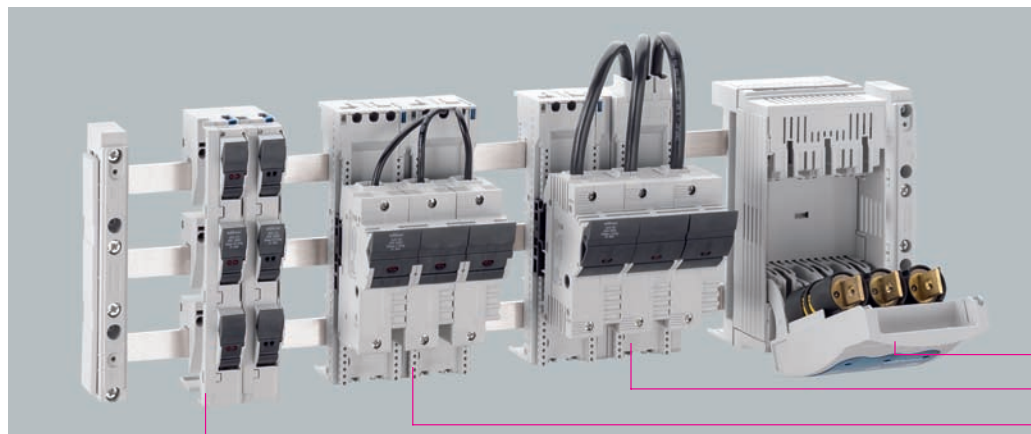
for all commercially available switchgear with M4 fixing screws (see accessories for M5 and M6 screws)

**Accessories for universal busbar adapters**

|                                                |   |      |  |       |
|------------------------------------------------|---|------|--|-------|
| M5 slide nut for 32214, 32215, 32168 and 32216 | 4 | 0.01 |  | 32937 |
| M6 slide nut for 32214, 32215, 32168 and 32216 | 4 | 0.01 |  | 32938 |

**Universal busbar adapter, 630A**

32004 and 32910 are required for Moeller NZM 9



33402  
31970  
31967  
31958

### AMBUS® EasyLiner, bus-mounting fuse holder, 3-pole

| Type                      | Width | Rated current/<br>Rated voltage | Pack Size | Weight<br>lbs./ea. | UL508A | Part No. |
|---------------------------|-------|---------------------------------|-----------|--------------------|--------|----------|
| Midget 10 x 38mm          | 27    | 32A / 690V                      | 1         | 0.41               | UL508A | 31954    |
| Midget 10 x 38mm with LED | 27    | 32A / 690V                      | 1         | 0.41               |        | 31955    |
| 30A Class CC              | 27    | 30A / 600V                      | 1         | 0.41               |        | 31958    |
| 30A Class CC with LED     | 27    | 30A / 600V                      | 1         | 0.41               |        | 31959    |

### QUADRON® J-Carrier, complete solution on busbar adapter, 3-pole

|                        |     |            |   |      |        |       |
|------------------------|-----|------------|---|------|--------|-------|
| Class J, 30A           | 108 | 30A / 600V | 1 | 2.42 | UL508A | 31967 |
| Class J, 30A, with LED | 108 | 30A / 600V | 1 | 2.42 |        | 31968 |
| Class J, 60A           | 126 | 60A / 600V | 1 | 2.88 |        | 31969 |
| Class J, 60A, with LED | 126 | 60A / 600V | 1 | 2.88 |        | 31970 |

### QUADRON® J-Carrier, Class J bus-mounting fuse base, connection bottom or top, 3-pole

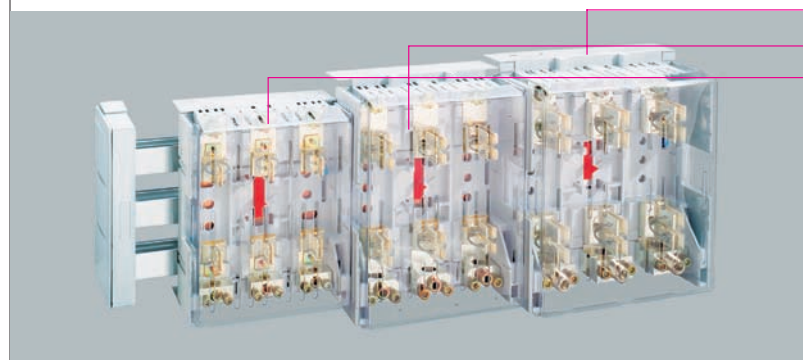
|               |     |             |   |       |        |       |
|---------------|-----|-------------|---|-------|--------|-------|
| Class J, 100A | 184 | 100A / 600V | 1 | 7.22  | UL508A | 33309 |
| Class J, 200A | 210 | 200A / 600V | 1 | 9.90  |        | 33310 |
| Class J, 400A | 256 | 400A / 600V | 1 | 15.18 |        | 33311 |

for busbars 12 - 30x10, double-T and triple-T. Conversion kit no. 33148 is required for mounting 33309 and 33310 onto 5mm busbars.

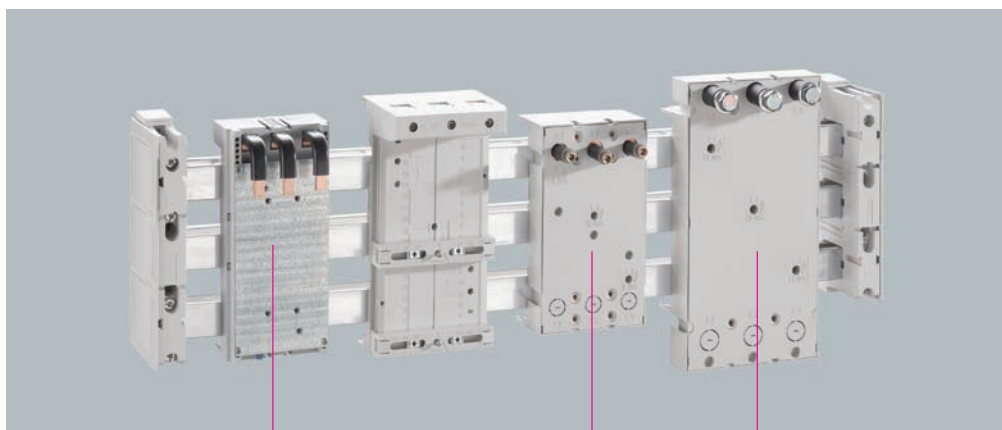
### QUADRON® CrossLink Carrier Class J, connection bottom or top, 3-pole

|               |     |             |   |      |        |       |
|---------------|-----|-------------|---|------|--------|-------|
| Class J, 100A | 106 | 100A / 600V | 1 | 2.20 | UL508A | 33402 |
| Class J, 200A | 106 | 200A / 600V | 1 | 8.58 |        | 33403 |

\* Consult factory regarding availability



33311  
33310  
33309



**32157**  
**32140**  
**32570**

**EQUES® Power Connector, busbar adaptor, terminal pitch 23 – 30mm**

| Type                                                       | Adaptor<br>length | Adaptor<br>width | Pack Size | Weight<br>lbs./ea. | UL508A | Part No.     |
|------------------------------------------------------------|-------------------|------------------|-----------|--------------------|--------|--------------|
| 160 A For Allen-Bradley 140U-H, bottom                     | 200               | 90               | 1         | 1.78               |        | 32571        |
| 125 A For Allen-Bradley 140U-H, top                        | 200               | 90               | 1         | 1.78               |        | 32577        |
| 160A for ABB T-max 1, T-max 2, GE FD160, Merlin Gerin NS80 | 200               | 90               | 1         | 1.78               |        | 32575        |
| 125A for Allen-Bradley 140-CMN                             | 200               | 90               | 1         | 1.78               |        | 32549        |
| 160A for Moeller NZM1                                      | 200               | 90               | 1         | 1.78               |        | <b>32570</b> |
| 100A for Siemens S3, ABB MS49x                             | 200               | 72               | 1         | 1.47               |        | 32981        |

**EQUES® Power Connector, busbar adaptor, terminal pitch 35 – 36mm**

|                                                           |     |     |   |      |  |              |
|-----------------------------------------------------------|-----|-----|---|------|--|--------------|
| 250A for Allen-Bradley 140U-J                             | 192 | 106 | 1 | 1.98 |  | 32137        |
| 250A for ABB T-max 4                                      | 240 | 105 | 1 | 2.70 |  | 32601        |
| 250A for Merlin Gerin NS100, NS250, GE FD250              | 192 | 106 | 1 | 2.06 |  | 32156        |
| 200A for Moeller NZM7                                     | 192 | 106 | 1 | 1.96 |  | 32016        |
| 250A for Moeller NZM2-XKR4                                | 192 | 106 | 1 | 1.98 |  | <b>32140</b> |
| 160A for Siemens 3VL1, 3VL2                               | 172 | 108 | 1 | 1.32 |  | 32109        |
| 250A for Siemens 3VL3                                     | 172 | 108 | 1 | 1.45 |  | 32110        |
| 250A for Terasaki XS250, Mitsubishi NF250, connection top | 240 | 105 | 1 | 2.24 |  | 32592        |
| 160A for Siemens 3VL1 UL                                  | 192 | 106 | 1 | 2.10 |  | 32976        |
| 250A for Siemens 3VL2, 3VL3 UL                            | 192 | 108 | 1 | 2.10 |  | 32977        |

**EQUES® Power Connector, busbar adaptor, terminal pitch 43 - 45mm**

|                                    |     |     |   |      |  |              |
|------------------------------------|-----|-----|---|------|--|--------------|
| 600A for allen-Bradley 140U-K, -L  | 272 | 140 | 1 | 8.27 |  | 32138        |
| 580A for ABB T-max 5               | 300 | 140 | 1 | 5.57 |  | 32593        |
| 570A for Merlin Gerin NS400, NS630 | 272 | 140 | 1 | 4.66 |  | <b>32157</b> |
| 550A for Moeller NZM3-XKR130       | 272 | 140 | 1 | 4.66 |  | 32170        |
| 400A for Siemens 3VL4              | 295 | 140 | 1 | 5.71 |  | 32975        |

**EQUES® Power Connector, busbar adaptor, terminal pitch 63mm**

|                       |     |     |   |      |  |       |
|-----------------------|-----|-----|---|------|--|-------|
| 600A for Siemens 3VL5 | 325 | 184 | 1 | 6.07 |  | 32980 |
|-----------------------|-----|-----|---|------|--|-------|



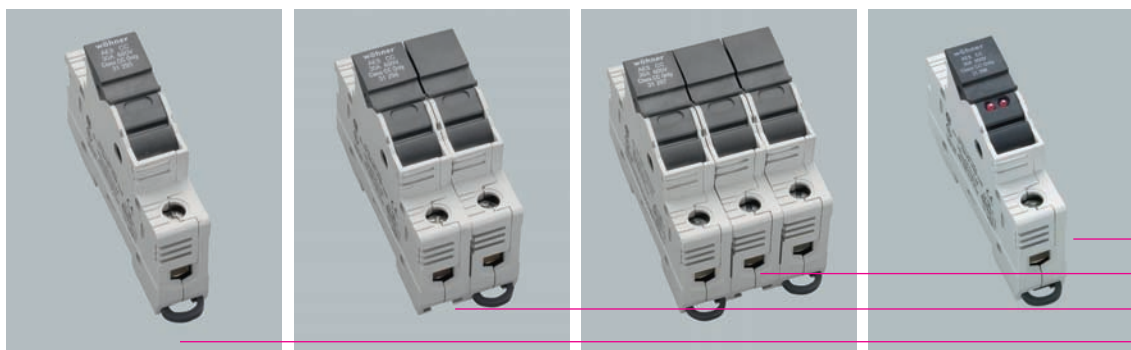
## EQUES® Power Connector – MCCB Mounting Reference

| Manufacturer         | Model       | Connection | Dimension | Pack Size | Weight   | UL508A            | Part No. |
|----------------------|-------------|------------|-----------|-----------|----------|-------------------|----------|
|                      |             |            | HxW (mm)  |           | lbs./ea. |                   |          |
| ABB                  | T-max 1     | Top        | 200x90    | 1         | 1.78     | cUL <sub>US</sub> | 32575    |
|                      | T-max 2     | Top        | 200x90    | 1         | 1.78     |                   | 32575    |
|                      | T-max 4     | Top/Bottom | 240x105   | 1         | 2.70     |                   | 32601    |
|                      | T-max 5     | Top/Bottom | 300x140   | 1         | 5.57     |                   | 32593    |
|                      | MS49x       | Top        | 200x72    | 1         | 1.47     |                   | 32981    |
| Allen-Bradley        | 140-CMN     | Top        | 200x90    | 1         | 1.79     | cUL <sub>US</sub> | 32549    |
|                      | 140U-H      | Top        | 200x90    | 1         | 1.85     |                   | 32577    |
|                      | 140U-H      | Bottom     | 200x90    | 1         | 1.85     |                   | 32571    |
|                      | 140U-J      | Top/Bottom | 192x106   | 1         | 1.98     |                   | 32137    |
|                      | 140U-K      | Top/Bottom | 272x140   | 1         | 4.67     |                   | 32138    |
|                      | 140U-L      | Top/Bottom | 272x140   | 1         | 4.67     |                   | 32138    |
| Cuttler-Hammer       | EG-Frame    | Top        | 200x90    | 1         | 1.85     | cUL <sub>US</sub> | 32577    |
|                      | EG-Frame    | Bottom     | 200x90    | 1         | 1.85     |                   | 32571    |
|                      | JG-Frame    | Top/Bottom | 192x106   | 1         | 1.98     |                   | 32137    |
|                      | K-Frame     | Top/Bottom | 272x140   | 1         | 4.67     |                   | 32138    |
|                      | LG-Frame    | Top/Bottom | 272x140   | 1         | 4.67     |                   | 32138    |
| GE                   | FD160       | Top        | 200x90    | 1         | 1.79     | cUL <sub>US</sub> | 32575    |
|                      | FE250       | Top/Bottom | 192x106   | 1         | 2.07     |                   | 32156    |
| Merlin Gerin         | NS80        | Top        | 200x90    | 1         | 1.79     | cUL <sub>US</sub> | 32575    |
|                      | NS100       | Top/Bottom | 192x106   | 1         | 2.07     |                   | 32156    |
|                      | NS250       | Top/Bottom | 192x106   | 1         | 2.07     |                   | 32156    |
|                      | NS400       | Top/Bottom | 272x140   | 1         | 4.91     |                   | 32157    |
|                      | NS630       | Top/Bottom | 272x140   | 1         | 4.91     |                   | 32157    |
| Mitsubishi           | NF250       | Top        | 240x105   | 1         | 2.25     | cUL <sub>US</sub> | 32592    |
| Moeller              | NZM1        | Top        | 200x90    | 1         | 1.79     | cUL <sub>US</sub> | 32570    |
|                      | NZM2-XKR4   | Top/Bottom | 192x106   | 1         | 1.99     |                   | 32140    |
|                      | NZM3-XKR130 | Top        | 272x140   |           | 5.116    |                   | 32170    |
| Siemens              | 3VL1        | Top/Bottom | 192x106   | 1         | 2.10     | cUL <sub>US</sub> | 32976    |
|                      | 3VL2        | Top/Bottom | 192x106   | 1         | 2.10     |                   | 32977    |
|                      | 3VL3        | Top/Bottom | 192x106   | 1         | 2.10     |                   | 32977    |
|                      | 3VL4        | Top/Bottom | 295x140   | 1         | 4.90     |                   | 32975    |
|                      | ED**        | Top        | 200x90    | 1         | 1.85     |                   | 32577    |
|                      | ED**        | Bottom     | 200x90    | 1         | 1.85     |                   | 32571    |
|                      | EG          | Top        | 200x90    | 1         | 1.85     |                   | 32577    |
|                      | EG          | Bottom     | 200x90    | 1         | 1.85     |                   | 32571    |
|                      | NG**        | Top        | 200x90    | 1         | 1.85     |                   | 32577    |
|                      | NG**        | Bottom     | 200x90    | 1         | 1.85     |                   | 32571    |
|                      | S3          | Top        | 200x72    | 1         | 1.47     |                   | 32981    |
|                      | 3VL5        | Top/Bottom | 325x184   | 1         | 6.08     |                   | 32980    |
| Square D (PowerPact) | H-Frame*    | Top/Bottom | 192x106   | 1         | 2.07     | cUL <sub>US</sub> | 32140*   |
|                      | J-Frame     | Top/Bottom | 192x106   | 1         | 2.07     |                   | 32156    |
|                      | D-Frame     | Top/Bottom | 272x140   | 1         | 4.91     |                   | 32157    |
| Terasaki             | XS250       | Top        | 240x105   | 1         | 2.25     | cUL <sub>US</sub> | 32592    |

\*Requires US76490 mounting hardware.

\*\*Minor drilling and tapping required

17 **AMBUS® EasySwitch For Class CC & Midget (10x38) Fuses**



|       |
|-------|
| 31298 |
| 31297 |
| 31296 |
| 31295 |

**AMBUS® EasySwitch Class CC, standard model**

| Size     | Rated current /<br>rated voltage | Connection                                | Type   | Width<br>mm | Weight<br>lbs./ea. | UL    | Part No. |
|----------|----------------------------------|-------------------------------------------|--------|-------------|--------------------|-------|----------|
| Class CC | 30A/ 600V                        | 1 wire: AWG 18 – 4<br>2 wires: AWG 18 – 6 | 1-pole | 18          | 0.15               | cULUS | 31295    |
|          |                                  |                                           | 2-pole | 36          | 0.29               |       | 31296    |
|          |                                  |                                           | 3-pole | 54          | 0.44               |       | 31297    |

**Model with LED open-fuse indicator**

|          |               |                                           |        |    |      |       |       |
|----------|---------------|-------------------------------------------|--------|----|------|-------|-------|
| Class CC | 30A/ 110-600V | 1 wire: AWG 18 – 4<br>2 wires: AWG 18 – 6 | 1-pole | 18 | 0.15 | cULUS | 31298 |
|          |               |                                           | 2-pole | 36 | 0.29 |       | 31299 |
|          |               |                                           | 3-pole | 54 | 0.44 |       | 31300 |
| Class CC | 30A/ 12-72V   | 1 wire: AWG 18 – 4<br>2 wires: AWG 18 – 6 | 1-pole | 18 | 0.15 |       | 31929 |

**AMBUS® EasySwitch Midget Fuse (10x38), standard model**

| Size           | Rated current /<br>rated voltage | Connection                                | Type   | Width<br>mm | Weight<br>lbs./ea. | UL    | Part No. |
|----------------|----------------------------------|-------------------------------------------|--------|-------------|--------------------|-------|----------|
| Midget (10x38) | 32A / 690V                       | 1 wire: AWG 18 – 4<br>2 wires: AWG 18 – 6 | 1-pole | 18          | 0.14               | cULUS | 31110    |
|                |                                  |                                           | 2-pole | 36          | 0.29               |       | 31112    |
|                |                                  |                                           | 3-pole | 54          | 0.42               |       | 31113    |

**Model with LED open-fuse indicator**

|                |                |                                           |        |    |      |       |             |
|----------------|----------------|-------------------------------------------|--------|----|------|-------|-------------|
| Midget (10x38) | 32A / 110-690V | 1 wire: AWG 18 – 4<br>2 wires: AWG 18 – 6 | 1-pole | 18 | 0.15 | cULUS | 31130       |
|                |                |                                           | 2-pole | 36 | 0.30 |       | 31132       |
|                |                |                                           | 3-pole | 54 | 0.46 |       | 31133       |
| Midget (10x38) | 32A / 12 - 72V | 1 wire: AWG 18 – 4<br>2 wires: AWG 18 – 6 | 1-pole | 18 | 0.15 |       | 31930 31930 |

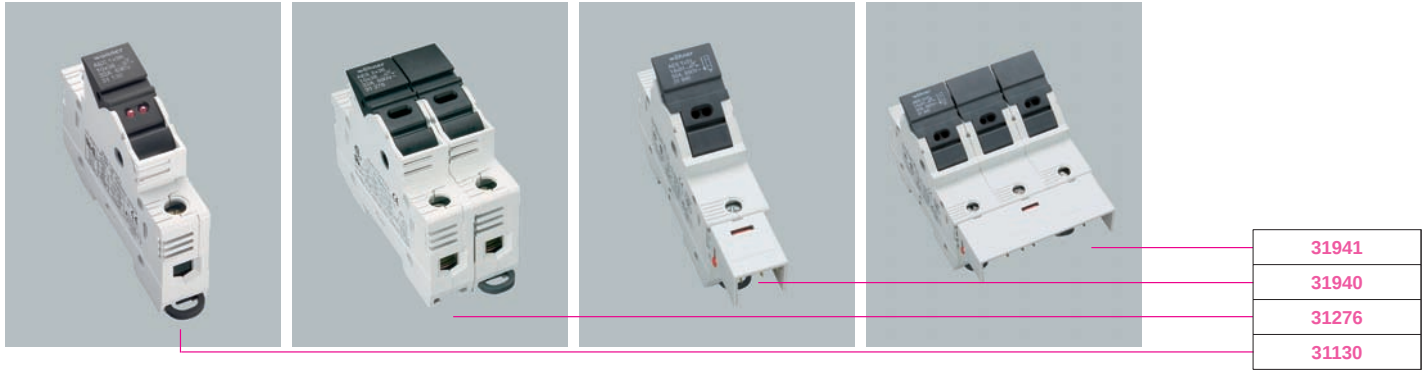
**Solar power model**

|                |                                          |                                           |        |    |      |       |       |
|----------------|------------------------------------------|-------------------------------------------|--------|----|------|-------|-------|
| Midget (10x38) | 32A / 1000V DC                           | 1 wire: AWG 18 – 4<br>2 wires: AWG 18 – 6 | 1-pole | 18 | 0.16 | cULUS | 31971 |
| Midget (10x38) | 32A / 400-1000V DC<br>with LED indicator | 1 wire: AWG 18 – 4<br>2 wires: AWG 18 – 6 | 1-pole | 18 | 0.20 |       | 31973 |

\*Not intended as a load-break switching device. Do not operate under load.

\*\* The value for the maximum permitted operating voltage, in accordance with the IEC 60947-3 is only valid when the device is used as a fuse holder **without a load-switching function**.

Fuses available upon request.



**AMBUS®EasySwitch, holder for cylindrical fuses, model for semiconductor fuses**

| Size  | Rated Current | Connection   | Type   | Width | Pack Size | Weight   | UL   | Part No. |
|-------|---------------|--------------|--------|-------|-----------|----------|------|----------|
|       | Rated Voltage |              |        | mm    |           | lbs./ea. |      |          |
| 10x38 | 32A / 800V    | AWG 18 - 4   | 1-pole | 18    | 12        | 0.14     | cNUS | 31275    |
|       |               |              | 2-pole | 36    | 6         | 0.28     |      | 31276    |
|       |               |              | 3-pole | 54    | 4         | 0.42     |      | 31277    |
| 14x51 | 50A / 800V    | AWG 14 - 2   | 1-pole | 27    | 6         | 0.21     |      | 31278    |
|       |               |              | 2-pole | 54    | 3         | 0.44     |      | 31279    |
|       |               |              | 3-pole | 81    | 2         | 0.67     |      | 31280    |
| 22x58 | 125A / 800V   | AWG 10 - 1/0 | 1-pole | 36    | 6         | 0.35     |      | 31281    |
|       |               |              | 2-pole | 72    | 3         | 0.71     |      | 31282    |
|       |               |              | 3-pole | 108   | 2         | 1.07     |      | 31283    |

**Model with LED open-fuse indicator for 110 - 800V AC/DC**

|       |             |              |        |     |   |      |      |       |
|-------|-------------|--------------|--------|-----|---|------|------|-------|
| 14x51 | 50A / 800V  | AWG 14 - 2   | 1-pole | 27  | 6 | 0.22 | cNUS | 31135 |
|       |             |              | 3-pole | 81  | 2 | 0.67 |      | 31138 |
| 22x58 | 125A / 800V | AWG 10 - 1/0 | 1-pole | 36  | 6 | 0.35 |      | 31140 |
|       |             |              | 3-pole | 108 | 2 | 1.07 |      | 31143 |

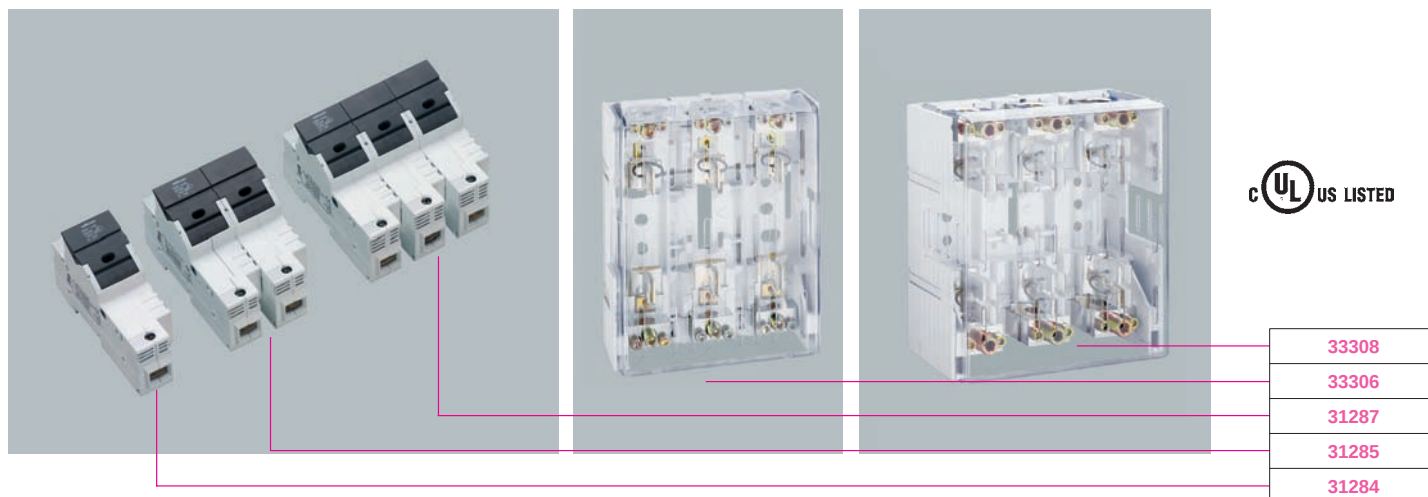
**AMBUS®EasySwitch, holder for cylindrical fuses, standard version with pilot switch**

|       |             |              |        |     |   |      |      |       |
|-------|-------------|--------------|--------|-----|---|------|------|-------|
| 14x51 | 50A / 800V  | AWG 14 - 2   | 1-pole | 27  | 6 | 0.26 | cNUS | 31940 |
|       |             |              | 2-pole | 54  | 3 | 0.52 |      | 31972 |
|       |             |              | 3-pole | 81  | 2 | 0.76 |      | 31941 |
| 22x58 | 125A / 800V | AWG 10 - 1/0 | 1-pole | 36  | 6 | 0.40 |      | 31942 |
|       |             |              | 2-pole | 72  | 3 | 0.81 |      | 31957 |
|       |             |              | 3-pole | 108 | 2 | 1.19 |      | 31943 |

\*Not intended as a load-break switching device. Do not operate under load.

\*\* The value for the maximum permitted operating voltage, in accordance with the IEC 60947-3 is only valid when the device is used as a fuse holder **without a load-switching function**.

Fuses available upon request.



### AMBUS® J-Carrier, Class J fuse holder, standard model

| Size         | Rated current /<br>rated voltage | Connection                                | Type   | Width<br>mm | Weight<br>lbs./ea. | UL    | Part No. |
|--------------|----------------------------------|-------------------------------------------|--------|-------------|--------------------|-------|----------|
| 30A Class J  | 30A / 600V                       | 1 wire: AWG 18 – 4<br>2 wires: AWG 18 – 6 | 1-pole | 36          | 0.35               | cULUS | 31284    |
|              |                                  |                                           | 2-pole | 72          | 0.71               |       | 31285    |
|              |                                  |                                           | 3-pole | 108         | 1.07               |       | 31287    |
| 60 A Class J | 60A / 600V                       | 1 wire: AWG 18 – 4<br>2 wires: AWG 18 – 6 | 1-pole | 40          | 0.40               |       | 31920    |
|              |                                  |                                           | 2-pole | 80          | 0.81               |       | 31921    |
|              |                                  |                                           | 3-pole | 120         | 1.23               |       | 31922    |

### Model with LED open-fuse indicator

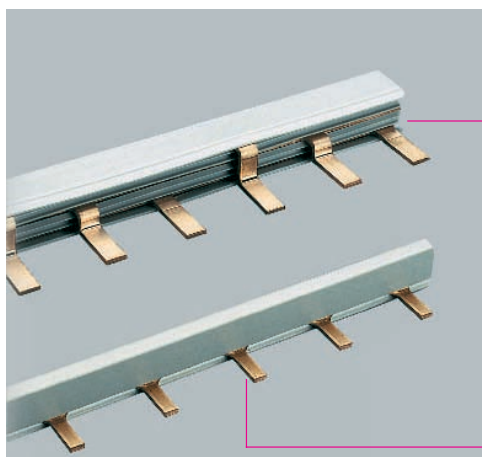
|              |            |                                           |        |     |      |       |       |
|--------------|------------|-------------------------------------------|--------|-----|------|-------|-------|
| 30A Class J  | 30A / 600V | 1 wire: AWG 18 – 4<br>2 wires: AWG 18 – 6 | 1-pole | 36  | 0.35 | cULUS | 31932 |
|              |            |                                           | 2-pole | 72  | 0.71 |       | 31933 |
|              |            |                                           | 3-pole | 108 | 1.07 |       | 31934 |
| 60 A Class J | 60A / 600V | 1 wire: AWG 18 – 4<br>2 wires: AWG 18 – 6 | 1-pole | 40  | 0.40 |       | 31923 |
|              |            |                                           | 2-pole | 80  | 0.81 |       | 31924 |
|              |            |                                           | 3-pole | 120 | 1.23 |       | 31925 |

### QUADRON® J-Carrier, Class J fuse holder

|              |             |              |        |     |       |       |       |
|--------------|-------------|--------------|--------|-----|-------|-------|-------|
| 100A Class J | 100A / 600V | AWG 10-2/0   | 3-pole | 184 | 4.79  | cULUS | 33306 |
| 200A Class J | 200A / 600V | AWG 8-300MCM | 3-pole | 210 | 7.46  |       | 33307 |
| 400A Class J | 400A / 600V | AWG 4-600MCM | 3-pole | 256 | 12.98 |       | 33308 |

Fuses available upon request

\*Not intended as a load-break switching device. Do not operate under load.



31549

31548

31267

### Comb-type busbar, 690V AC, 1m long

| Model                                   | Supply      | Cross Section   | Pack size | Weight   | Part No. |
|-----------------------------------------|-------------|-----------------|-----------|----------|----------|
|                                         | side/center | mm <sup>2</sup> |           | lbs./ea. |          |
| 1-pole, insulated, bridge, pitch 18mm*  | 100A/200A   | 25              | 10        | 1.05     | 31548    |
| 2-pole, insulated, bridge, pitch, 18mm* | 100A/200A   | 25              | 10        | 1.60     | 31561    |
| 3-pole, insulated, bridge, pitch 18mm*  | 100A/200A   | 25              | 10        | 2.49     | 31549    |

\* Any Holder rated for: 690V AC, IEC/EN -- 480V AC, UL/CSA

\* Wöhner Holders rated for: 600V AC, UL/CSA Listed

### Connection terminal, for comb-type busbar 690V AC

| Type                                | Connection | Pack size | Weight   | Part No. |
|-------------------------------------|------------|-----------|----------|----------|
|                                     |            |           | lbs./ea. |          |
| for 1- and 3-pole comb-type busbars | AWG 10 - 2 | 10        | .08      | 31550    |

### End Cap for comb-type busbar 690V AC

| Type                         | Pack size | Weight   | Part No. |
|------------------------------|-----------|----------|----------|
|                              |           | lbs./ea. |          |
| for 3-pole comb-type busbars | 20        | .004     | 31552    |

### Connection sets, for customized combinations of multi-pole units

| Model                       | Pack size | Weight   | Part No. |
|-----------------------------|-----------|----------|----------|
|                             |           | lbs./ea. |          |
| 8x31, 2-pole, 10x38, 2-pole | 1         | 0.06     | 31267    |
| 8x31, 3-pole, 10x38, 3-pole | 1         | 0.08     | 31268    |
| 8x31, 4-pole, 10x38, 4-pole | 1         | 0.11     | 31524    |

Each set allows you to create ten 2, 3 or 4 pole combinations



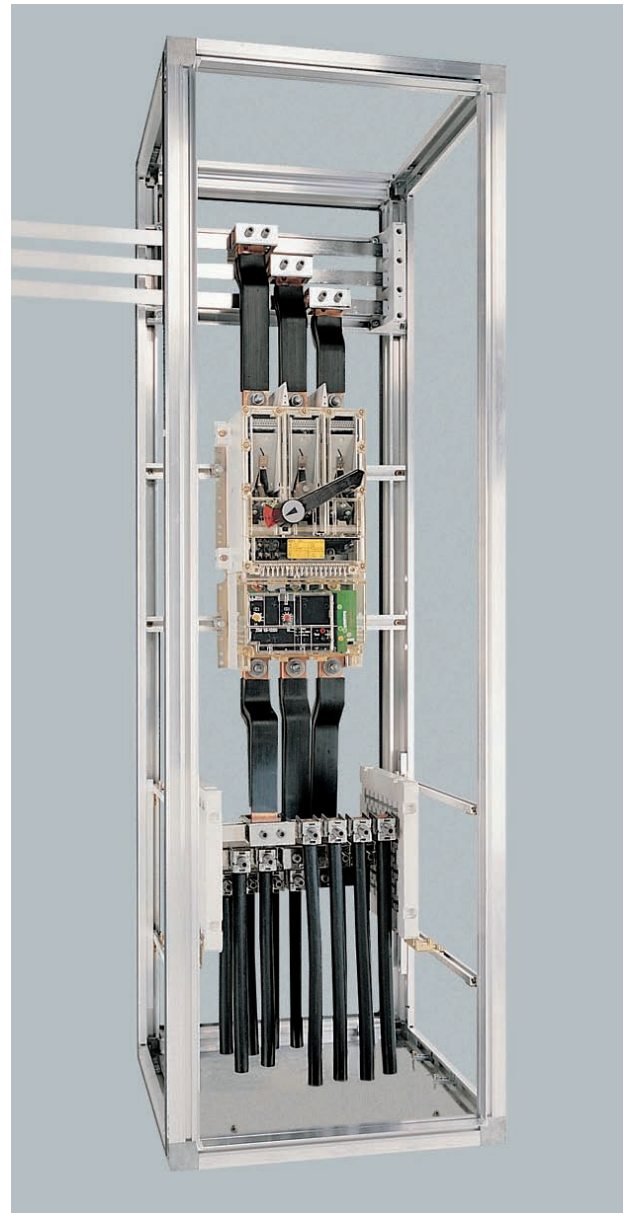
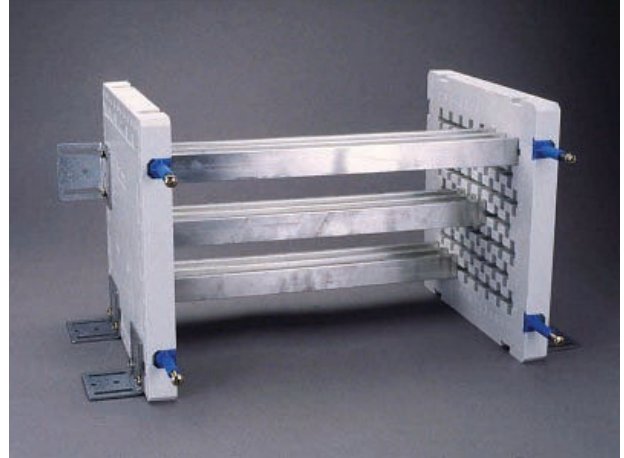
The Centre-feed Unit construction is designed to connect multiple, traditional AWG cables per phase to a busbar structure for compact, space saving, power distribution. It serves as a transition point from a facility's AWG cabling (field installed) to the space saving construction of insulated flat flexible busbars within the equipment. The system end supports are designed to handle Wöhner's various busbar cross sectional dimensions -- from 30x10 (rectangular profile) bars to our double-T and triple-T profile bars. These busbars are UL listed to 2000 amps, and through center-feeding design, can be used to connect up to 4000 amps of current.

The Centre-feed Unit system uses standard 60mm system connectors to fasten up to 600MCM round cables and parallel 100x10mm flat flexible busbars to the rigid busbar structure. These standard 60mm system fasteners eliminate the drilling associated with custom fabricated busbar solutions, saving engineering, fabrication and installation time. Each of these busbar connectors are purchased individually, so custom connection assemblies will suit each specific application and can be modified quickly and easily.

The new TCC section busbars developed for Centre-feed Unit applications provide even more connection options. One side of the busbar construction uses Wöhner's traditional 30x10 fasteners for AWG cables or flat flexible busbars. These connectors ensure secure and fast connections that can be easily retrofitted and do not require drilling. Two other surfaces of the TCC busbar construction allow rigid or flat flexible busbars to be bolted to the busbar structure. This construction allows for busbars to be connected on 3 surfaces of the Centre-feed Unit assembly.

### System benefits

- Compact power distribution
- Safe secure delivery of currents up to 4000A
- Short Circuit Current Rating of 110kA
- Drill-free assembly
- Direct connection of conductors with the aid of CRITO® Power Clips and Profile Terminals
- Supports multiple incoming connections of Al or Cu up to 600MCM
- Supports multiple outgoing connections up to 1x100x10mm<sup>2</sup> flat flexible busbar and up to 600MCM American Wire Gauge
- Choice of 3 or 4 pole construction for customizable solutions





35005

01318

01911

35005

### Centre-feed unit, kit (without cable and bus connectors)

| Cabinet | Busbar Size                           | Assembly Dimensions |               |               | Pack Size | Weight   | UL508A | Part No. |
|---------|---------------------------------------|---------------------|---------------|---------------|-----------|----------|--------|----------|
| Width   |                                       | Height              | Width         | Depth         |           | lbs./ea. |        |          |
| 600mm   | Double-T, 500mm <sup>2</sup> , 1250A  | 11.8" (300mm)       | 23.1" (580mm) | 14.0" (356mm) | 1         | 31.55    | cULUS  | 35007    |
|         | Double T, 720mm <sup>2</sup> , 2000A  |                     |               |               | 1         | 37.75    |        | 35005    |
|         | Triple-T, 1140mm <sup>2</sup> , 3200A |                     |               |               | 1         | 48.40    |        | 35015    |
| 800mm   | Double-T, 500mm <sup>2</sup> , 1250A  | 11.8" (300mm)       | 31.0" (787mm) | 14.0" (356mm) | 1         | 37.75    | cULUS  | 35006    |
|         | Double T, 720mm <sup>2</sup> , 2000A  |                     |               |               | 1         | 54.74    |        | 35004    |
|         | Triple-T, 1140mm <sup>2</sup> , 3200A |                     |               |               | 1         | 64.68    |        | 35016    |

Basic system: 2 busbar supports, 6 fixing brackets with screws, 3 busbars, 8 safety cover standoffs

### Centre-feed unit, separate components

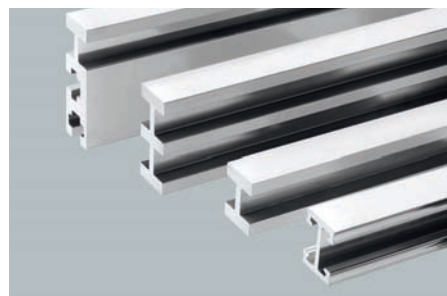
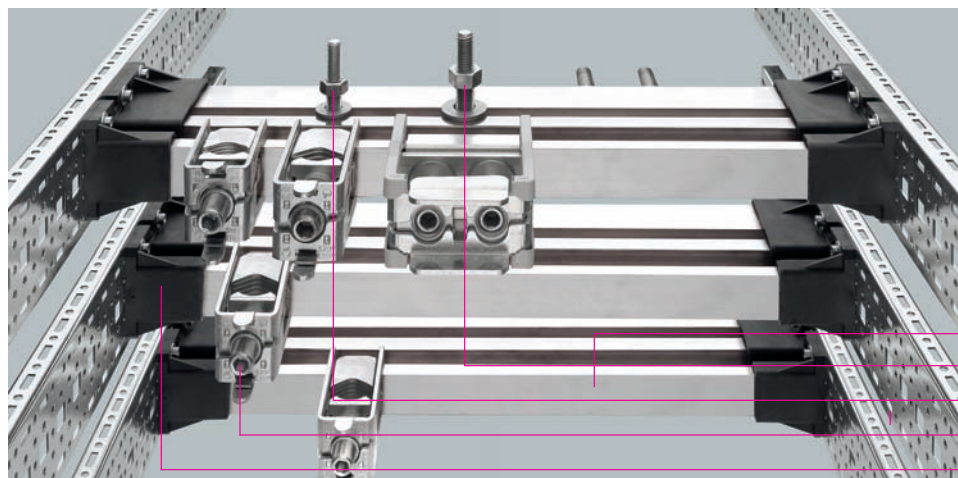
| Type                                                                         | Pack Size | Weight   | UL508A | Part No. |
|------------------------------------------------------------------------------|-----------|----------|--------|----------|
|                                                                              |           | lbs./ea. |        |          |
| outer busbar support, universal, including fixing materials                  | 2         | 10.08    | cULUS  | 35008    |
| mid-support, double-T busbars, 4-pole, including fixing materials            | 1         | 10.08    |        | 35009    |
| mid-support, double and triple-T busbars, 3-pole, including fixing materials | 1         | 10.08    |        | 35001    |
| standoffs for safety cover, including screw                                  | 4         | 0.03     |        | 35017    |
| double-T busbar, 500mm <sup>2</sup> , 1250A, 450mm long                      | 1         | 4.37     |        | 01225    |
| double-T busbar, 720mm <sup>2</sup> , 2000A, 450mm long                      | 1         | 6.34     |        | 01226    |
| triple-T busbar, 1140mm <sup>2</sup> , 3200A, 450mm long                     | 1         | 6.40     |        | 01838    |
| double-T busbar, 500mm <sup>2</sup> , 1250A, 650mm long                      | 1         | 9.22     |        | 01831    |
| double-T busbar, 720mm <sup>2</sup> , 2000A, 650mm long                      | 1         | 10.21    |        | 01188    |
| triple-T busbar, 1140mm <sup>2</sup> , 3200A, 650mm long                     | 1         | 14.79    |        | 01189    |

### CRITO®ProfiClip, brace terminals

| Busbars                                 |                                | For Use    | Pack Size | Weight   | UL508A | Part No. |
|-----------------------------------------|--------------------------------|------------|-----------|----------|--------|----------|
|                                         |                                | up to max. |           | Lbs./Ea. |        |          |
| 20 x 5 – 30 x 10, double-T and triple-T | for flat busbars up to 30 x 20 | 750A       | 6         | 0.67     | cULUS  | 01319    |
|                                         | Cu and Al* AWG 3/0 - 350MCM    | 500A       | 6         | 0.69     |        | 01318    |
|                                         | for flat busbars up to 32 x 20 | 800A       | 3         | 0.76     |        | 01759    |
|                                         | Cu and Al* AWG 250MCM - 600MCM | 600A       | 3         | 0.94     |        | 01760    |

### CRITO®PowerClip, brace terminal for busbars 30 x 10 and section busbars

| Busbars                                | Terminal Space | For Use        | Pack Size | Weight   | UL508A | Part No. |
|----------------------------------------|----------------|----------------|-----------|----------|--------|----------|
|                                        | WxH            | up to max.     |           | Lbs./Ea. |        |          |
| 30 x 10, double-T and triple-T profile | 55 x 28        | 1600A / 2000A* | 3         | 1.17     | cULUS  | 01069    |
|                                        | 68 x 28        | 1600A / 2000A* | 3         | 1.39     |        | 01070    |
|                                        | 105 x 28       | 1600A / 2800A* | 3         | 1.85     |        | 01071    |



01378  
01379  
01380  
01760  
01369

### Busbar holder, 1-pole, side connection

| Type                                                                                                      | Pack Size | Weight  | Part No. |
|-----------------------------------------------------------------------------------------------------------|-----------|---------|----------|
|                                                                                                           |           | lbs./ea |          |
| for 30x10, double-T, triple-T and TCC section busbars, 7.5mm insulation between busbar and mounting plate | 6         | 0.25    | 01369    |

### Profile Section Cu Busbar

| Type                       | Length | Cross Section   | Pack Size | Weight   |  | Part No. |
|----------------------------|--------|-----------------|-----------|----------|--|----------|
|                            |        | mm <sup>2</sup> |           | lbs./ea. |  |          |
| TCC section busbars, plain | 0.492m | 1600            | 1         | 15.43    |  | 01377    |
|                            | 0.692m | 1600            | 1         | 21.27    |  | 01378    |
|                            | 2.400m | 1600            | 1         | 74.96    |  | 01610    |

for 30x10, double-T and triple-T busbars see pages 5 and 22

### Terminal stud with nut and spring washer for TCC section busbars

| Type                             | For Length | Cross Section   | Pack Size | Weight   |  | Part No. |
|----------------------------------|------------|-----------------|-----------|----------|--|----------|
|                                  |            | mm <sup>2</sup> |           | lbs./ea. |  |          |
| hammer-head, can be retro-fitted | 10-25      | M10 x 45        | 12        | 0.11     |  | 01379    |
| hexagonal                        | 10-40      | M12 x 60        | 12        | 0.20     |  | 01380    |

### CRITO®ProfiClip, brace terminals

| For busbars                                                  | Connection                   | For Use    | Pack Size | Weight   | UL508A | Part No. |
|--------------------------------------------------------------|------------------------------|------------|-----------|----------|--------|----------|
|                                                              |                              | up to max. |           | Lbs./Ea. |        |          |
| 20 x 5 - 30 x 10, double-T, triple-T and TCC section busbars | for flat busbars up to 30x10 | 750A       | 6         | 0.67     | cULus  | 01319    |
|                                                              | Cu and Al* 3/0 to 350MCM     | 500A       | 6         | 0.69     |        | 01318    |
|                                                              | for flat busbars up to 32x20 | 800A       | 3         | 0.76     |        | 01759    |
|                                                              | Cu and Al* 250 to 600MCM     | 600A       | 3         | 0.94     |        | 01760    |

### CRITO®PowerClip, brace terminals for the connection of flat and flexible copper busbars

| For busbars                                            | Terminal Space | For Use        | Pack Size | Weight   | UL508A | Part No. |
|--------------------------------------------------------|----------------|----------------|-----------|----------|--------|----------|
|                                                        | WxH            | up to max.     |           | Lbs./Ea. |        |          |
| 30 x 10, double-T and triple-T and TCC section busbars | 55 x 28        | 1600A / 2000A* | 3         | 1.17     | cULus  | 01069    |
|                                                        | 68 x 28        | 1600A / 2000A* | 3         | 1.39     |        | 01070    |
|                                                        | 105 x 28       | 1600A / 2800A* | 3         | 1.85     |        | 01071    |

\* in a center feeding application

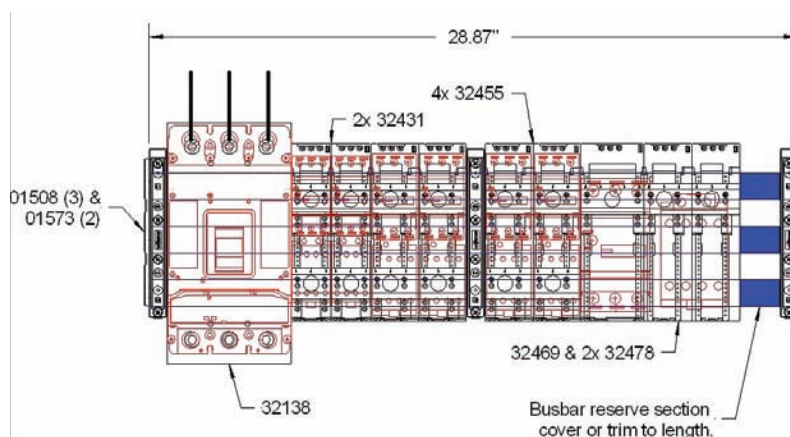




Wohner USA provides applications assistance upon request. Tell us about your system requirements by answering the following 7 questions. We can provide a recommended layout and quotation for the system you describe. Email us at [qcq@woehner.com](mailto:qcq@woehner.com)

| System Design Considerations                                                                                                                                                                                                                                                                            | Parameters                                                                                                            | *Example                                                        | Enter Feedback Here |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|---------------------|
| <b>Q1: What is the system voltage and wiring configuration?</b><br>Wöhner systems can be designed for both AC and DC voltages up to 1000 V. We can incorporate busbars and supports for 1, 2, 3, 4 or 5 wire systems.                                                                                   | 1 bar - Ground<br>2 bars - DC<br>3 bars - 3Ø<br>4 bars - 3Ø + N<br>5 bars - 3Ø + N + G                                | 480 VAC, 3Ø                                                     |                     |
| <b>Q2: What is the total current requirement of the system?</b><br>Wöhner systems utilize 4 standard gauges of busbar for systems up to 756 A and 3 special profile busbars for systems up to 1800 A. With design considerations, we can achieve current rating up to 4000 A.                           | 12 x 5 - 150A<br>20 x 5 - 362A<br>30 x 5 - 500A<br>30 x 10 - 756A<br>TT500 - 1,200A<br>TT720 - 1,400A<br>TTT - 1,800A | 400 amps                                                        |                     |
| <b>Q3: What is the main over-current protection device and where is it mounted?</b> Identifying the make and model of the fuses, the fusible switch, the molded case circuit breaker or the lack of a main over-current device (main lug only) will allow us to recommend the most space saving design. | I.D.<br>Make and Model                                                                                                | C-H LG-frame<br>MCCB<br>Busbar mounted                          |                     |
| <b>Q4: Size, count and construction of incoming cables?</b> Wohner systems can accommodate up to 600 MCM cables (420 A). For higher current ratings we will use parallel AWG conductors or propose insulated flat flexible busbar.                                                                      | AWG # 16 to 600<br>MCM or Flat Flex                                                                                   | AWG 600 MCM,<br>one per phase<br>into lugs on C-H<br>LG breaker |                     |
| <b>Q5: Define the system branch circuits?</b> A Wohner system is best suited to applications with at least 4 branch circuits – the more the better. It's all about power distribution to the branch circuits.                                                                                           | MCCBs<br>IEC Motor Controls<br>DIN Power Devices<br>Fused Circuits<br>Power Taps                                      | 4 x 25 HP MCP<br>1 x 15 HP MCP<br>1 x 5 HP MCP<br>1 x 50 HP MCP |                     |
| <b>Q6: Any size or space limitations?</b> The busbar system may allow you to fit your system into a smaller, less expensive enclosure. It's a great way to beat the competition on system size and labor.                                                                                               | Enclosure H x W x D<br>Panel H x W<br>Vertical or Horizontal<br>Shipping Splits                                       | 36" x 30" x 10"<br>NEMA 4                                       |                     |
| <b>Q7: Other considerations?</b> Does the system need to be UL 508 compliant? Has a required SCCR been determined? Any international listings needed?                                                                                                                                                   | UL 508<br>IEC<br>Up to 100 kA SCCR                                                                                    | UL 508                                                          |                     |

Based on the control system requirements described in the questionnaire above, a layout can be developed in a 2 dimensional CAD format (or 3D by request). From this layout we will compile the necessary bill of materials to create the assembly. A quotation for this Wöhner bill of material will be made in the format shown here. CAD assemblies can be provided upon purchase of the system. Create your own CAD assemblies by downloading the system elements from the Wöhner web site ([www.woehner.com](http://www.woehner.com)).



Wöhner USA  
1 Lafayette Road  
Hampton, NH 03842

SAMPLE OF LAYOUT, DESIGN AND LIST PRICE QUOTE

September 1, 2010

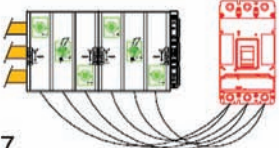
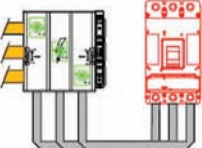
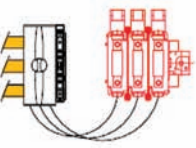
| QTY | CATALOG NUMBER | DESCRIPTION                                                               | COMMENTS                               | LIST PRICE   | EXTENDED LIST PRICE |
|-----|----------------|---------------------------------------------------------------------------|----------------------------------------|--------------|---------------------|
| 3   | 01508          | Universal busbar support                                                  | Busbar support                         | \$ 33.09     | \$ 99.27            |
| 2   | 01573          | end cover, for busbar support                                             | Busbar support end cover               | \$ 12.88     | \$ 25.76            |
| 1   | 01622          | busbar, 500 A, length 2.40 m, lined, 30 x 5                               | Busbar can be cut to length by Wöhner  | \$ 810.44    | \$ 810.44           |
| 1   | 32138          | 570A Adapter to mount C-H LG-Frame breaker                                | Mounts C-H LG-frame breaker            | \$ 259.64    | \$ 259.64           |
| 4   | 32455          | adaptor EEC 63 A, 2 adjustable mounting rails, standard version, 64 x 200 | Mounts 25 hp Combo                     | \$ 62.13     | \$ 248.52           |
| 2   | 32431          | adaptor EEC 25 A, 2 adjustable mounting rails, standard version, 45 x 200 | Mounts 5 & 15 hp Combo                 | \$ 47.94     | \$ 95.88            |
| 1   | 32469          | adaptor EEC 80 A, 1 adjustable mounting rail, standard version, 72 x 200  | Paired w/ 2x 32478, mounts 50 hp Combo | \$ 85.52     | \$ 85.52            |
| 2   | 32478          | adaptor EEC, 2 adjustable mounting rails, standard version, 54 x 200      | Paired w/ 32469, mounts 50 hp Combo    | \$ 46.86     | \$ 93.72            |
| 1   | 01515          | bottom trough UL, 240 x 700                                               | UL bottom trough                       | \$ 57.72     | \$ 57.72            |
|     |                |                                                                           |                                        | <b>TOTAL</b> | <b>\$ 1,776.47</b>  |

**Disclaimer:**

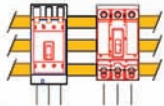
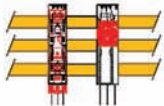
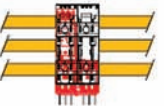
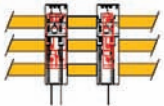
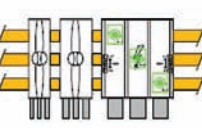
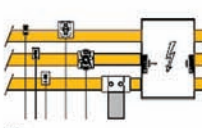
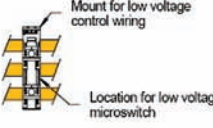
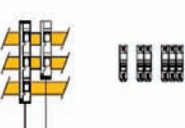
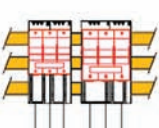
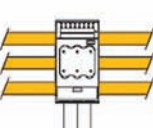
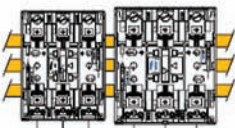
This drawing is a suggested arrangement of the Wöhner Busbar System, based on unverified application requirements. The acceptability of this system for the eventual application is the sole responsibility of the panel builder.



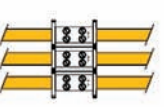
**Main Overcurrent Protection Device:**

|                                                                                                                                     |                                                                                                                                                                                        |                                                                                                                                                                                               |                                                                                                                                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>p. 7</p>                                       |  <p>p. 7</p>                                                                                          |  <p>p. 15, 16</p>                                                                                           |  <p>p. 7</p>                                                                                    |
| <p><b>Parallel feed with round conductors.</b></p> <ul style="list-style-type: none"> <li>For ampere ratings above 420A.</li> </ul> | <p><b>Standard feed using flexible busbar.</b></p> <ul style="list-style-type: none"> <li>Saves connection space on busbar system.</li> <li>Solves wire bend radius issues.</li> </ul> | <p><b>MCCB mounted on the busbar system.</b></p> <ul style="list-style-type: none"> <li>Most space saving design.</li> <li>Backfeeding orientation possible depending on the MCCB.</li> </ul> | <p><b>Standard feed from a fusible switch.</b></p> <ul style="list-style-type: none"> <li>Achieves higher SCCR values.</li> <li>Use AWG or flexible busbar connections.</li> </ul> |

**Branch Circuit Options:**

|                                                                                                                                                                                                                                                   |                                                                                                                                                                             |                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>p. 15, 16</p>                                                                                                                                                |  <p>p. 12</p>                                                                              |  <p>p. 12</p>                                                                                                                                                                                |  <p>p. 12</p>                                                                                                                                                                    |
| <p><b>MCCBs mounted on busbar system.</b></p> <ul style="list-style-type: none"> <li>Compact design.</li> <li>No line side wiring required.</li> <li>Up to 630A MCCBs</li> <li>Backfeeding orientation possible depending on the MCCB.</li> </ul> | <p><b>Combination motor controller.</b></p> <ul style="list-style-type: none"> <li>Up to 80 amp branch circuits.</li> <li>Fusible or circuit breaker assemblies.</li> </ul> | <p><b>Reversing motor controller.</b></p> <ul style="list-style-type: none"> <li>Up to 80 amp branch circuits.</li> <li>Fusible or circuit breaker assemblies.</li> </ul>                                                                                                      | <p><b>One and two pole device mounting.</b></p> <ul style="list-style-type: none"> <li>DIN rail mount up to 80 amps.</li> <li>Terminal type adapters.</li> <li>Choose phase connections for load balance.</li> <li>Fusible or circuit breaker assemblies</li> </ul> |
|  <p>p. 7</p>                                                                                                                                                    |  <p>p. 7</p>                                                                              |  <p>p. 9, 10</p>                                                                                                                                                                            |  <p>p. 11</p>                                                                                                                                                                   |
| <p><b>3-pole round conductor power taps.</b></p> <ul style="list-style-type: none"> <li>Up to 600MCM.</li> </ul>                                                                                                                                  | <p><b>3-pole flexible busbar power taps.</b></p> <ul style="list-style-type: none"> <li>Up to 2x32x10mm.</li> </ul>                                                         | <p><b>Universal terminals and covers.</b></p> <ul style="list-style-type: none"> <li>Round conductor up to 600MCM.</li> <li>Flexible busbar up to 2x100x10mm.</li> <li>Ring lug connection option.</li> <li>Ground and neutral terminals</li> <li>Touchsafe covers.</li> </ul> | <p><b>Motor controller adapter.</b></p> <ul style="list-style-type: none"> <li>Disconnect under load using microswitch assembly.</li> <li>Touchsafe design with component face plate removed.</li> <li>Mount for low voltage control wiring.</li> </ul>             |
|  <p>p. 14</p>                                                                                                                                                  |  <p>p. 14</p>                                                                            |  <p>p. 2, 14</p>                                                                                                                                                                           |  <p>p. 14</p>                                                                                                                                                                  |
| <p><b>UL Class CC and Midget fuseholders</b></p> <ul style="list-style-type: none"> <li>1, 2 and 3 pole devices.</li> <li>Busbar and panel mountings.</li> <li>Up to 1000V DC for photovoltaic applications</li> </ul>                            | <p><b>UL Class J, 30 and 60 amp fuseholders.</b></p> <ul style="list-style-type: none"> <li>1, 2 and 3 pole devices.</li> <li>Busbar and panel mountings.</li> </ul>        | <p><b>CrossLink Carrier, UL Class J 100A</b></p> <ul style="list-style-type: none"> <li>Compact, space saving design.</li> <li>Touchsafe design.</li> <li>Integrated fuse puller.</li> <li>See NEW Crosslink family.</li> </ul>                                                | <p><b>UL Class J, 200 &amp; 400 amp fuseholders.</b></p> <ul style="list-style-type: none"> <li>Busbar and panel mountings.</li> <li>Touchsafe cover included.</li> </ul>                                                                                           |

**Other Considerations:**

|                                                                                                                                                                                                              |                                                                                                                                                                                                       |                                                                                                                                                                          |                                                                                                                                                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                           |  <p>p. 9</p>                                                                                                       |                                                                                      |                                                                                                                                                  |
| <p><b>Horizontal or vertical busbar orientation.</b></p> <ul style="list-style-type: none"> <li>Vertical orientation saves space.</li> <li>Consider heat effect on vertically mounted components.</li> </ul> | <p><b>Busbar butt connections.</b></p> <ul style="list-style-type: none"> <li>Shipping splits</li> <li>Assemblies greater than 2400mm.</li> <li>Phase barriers.</li> <li>Touchsafe covers.</li> </ul> | <p><b>Multiple busbar runs.</b></p> <ul style="list-style-type: none"> <li>Flexible busbar or AWG feed-through.</li> <li>Compact design in narrow enclosures.</li> </ul> | <p><b>Center feeding design.</b></p> <ul style="list-style-type: none"> <li>For higher current applications.</li> <li>Requires balanced loads on either side of parallel connections.</li> <li>Design systems up to 4000A.</li> </ul> |

## 27 Technical Specifications

### Short Circuit Current Ratings (SCCR)

#### Unprotected System:

| Bus bar (cross section) | Busbar Rating |  | SCCR | Max support spacing* |
|-------------------------|---------------|--|------|----------------------|
| 01618 (12x5mm)          | 150A, 600VAC  |  | 18kA | 400mm                |
| 01623 (12x10mm)         | 150A, 600VAC  |  | 18kA | 400mm                |
| 01620 (20x5mm)          | 362A, 600VAC  |  | 18kA | 400mm                |
| 01624 (20x10mm)         | 564A, 600VAC  |  | 18kA | 400mm                |
| 01622 (30x5mm)          | 500A, 600VAC  |  | 22kA | 400mm                |
| 01622 (30x5mm)          | 500A, 600VAC  |  | 25kA | 250mm                |
| 01625 (30x10mm)         | 756A, 600VAC  |  | 25kA | 400mm                |
| 01625 (30x10mm)         | 756A, 600VAC  |  | 25kA | 250mm                |

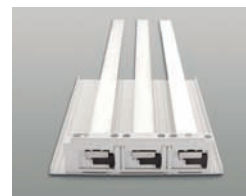
#### Circuit Breaker Protected System (Any DIVQ/7):

| Bus bar (cross section) 480VAC | Busbar Current | Max CB Rating | SCCR | Max support spacing* |
|--------------------------------|----------------|---------------|------|----------------------|
| 01618 (12x5mm)                 | 150A           | 250A          | 65kA | 800mm*               |
| 01623 (12x10mm)                | 150A           | 250A          | 65kA | 800mm*               |
| 01620 (20x5mm)                 | 362A           | 400A          | 65kA | 800mm*               |
| 01624 (20x10mm)                | 564A           | 400A          | 65kA | 800mm                |
| 01622 (30x5mm)                 | 500A           | 400A          | 65kA | 800mm                |
| 01625 (30x10mm)                | 756A           | 400A          | 65kA | 800mm                |
| 01625 (30x10mm)                | 756A           | 600A          | 50kA | 800mm                |
| <b>600VAC</b>                  |                |               |      |                      |
| 01618 (12x5mm)                 | 150A           | 250A          | 25kA | 800mm                |
| 01623 (12x10mm)                | 150A           | 250A          | 25kA | 800mm                |
| 01620 (20x5mm)                 | 362A           | 400A          | 35kA | 800mm                |
| 01624 (20x10mm)                | 564A           | 400A          | 35kA | 800mm                |
| 01622 (30x5mm)                 | 500A           | 600A          | 25kA | 800mm                |
| 01625 (30x10mm)                | 756A           | 400A          | 35kA | 800mm                |
| 01625 (30x10mm)                | 756A           | 600A          | 25kA | 800mm                |

#### Fuse Protected System:

| Bus bar (cross section) 480VAC | Busbar Current | Max Fuse Rating  | SCCR  | Max support spacing* |
|--------------------------------|----------------|------------------|-------|----------------------|
| 01618 (12x5mm)                 | 150A           | 400A - J, T, RK1 | 100kA | 800mm*               |
| 01623 (12x10mm)                | 150A           | 400A - J, T, RK1 | 100kA | 800mm*               |
| 01620 (20x5mm)                 | 362A           | 400A - RK1       | 100kA | 800mm*               |
| 01620 (20x5mm)                 | 362A           | 500A - J, T      | 100kA | 800mm*               |
| 01624 (20x10mm)                | 564A           | 400A - RK1       | 100kA | 800mm                |
| 01624 (20x10mm)                | 564A           | 500A - J, T      | 100kA | 800mm                |
| 01622 (30x5mm)                 | 500A           | 400A - RK1       | 100kA | 800mm                |
| 01622 (30x5mm)                 | 500A           | 500A - J, T      | 100kA | 800mm                |
| 01625 (30x10mm)                | 756A           | 400A - RK1       | 100kA | 800mm                |
| 01625 (30x10mm)                | 756A           | 600A - J, T      | 100kA | 800mm                |
| <b>600VAC</b>                  |                |                  |       |                      |
| 01618 (12x5mm)                 | 150A           | 100A - RK1       | 100kA | 800mm*               |
| 01618 (12x5mm)                 | 150A           | 175A - J, T      | 100kA | 800mm*               |
| 01623 (12x10mm)                | 150A           | 100A - RK1       | 100kA | 800mm*               |
| 01623 (12x10mm)                | 150A           | 175A - J, T      | 100kA | 800mm*               |
| 01620 (20x5mm)                 | 326A           | 200A - RK1       | 100kA | 800mm*               |
| 01620 (20x5mm)                 | 326A           | 400A - J, T      | 100kA | 800mm*               |
| 01624 (20x10mm)                | 564A           | 200A - RK1       | 100kA | 800mm                |
| 01624 (20x10mm)                | 564A           | 400A - J, T      | 100kA | 800mm                |
| 01622 (30x5mm)                 | 500A           | 400A - RK1       | 100kA | 800mm                |
| 01622 (30x5mm)                 | 500A           | 500A - J, T      | 100kA | 800mm                |
| 01625 (30x10mm)                | 756A           | 400A - RK1       | 100kA | 800mm                |
| 01625 (30x10mm)                | 756A           | 450A - J, T      | 100kA | 800mm                |

\* consideration should be made for mechanical support of the devices mounted to the busbar system.



**60mm Busbar System –**  
Support spacing & SCCR values –  
01508 (S620-L) with  
rectangular busbars

## Technical Specifications

### Short Circuit Current Ratings (SCCR)

#### Unprotected System:

| Bus bar (cross section)     | Busbar Rating |  | SCCR | Max support spacing* |
|-----------------------------|---------------|--|------|----------------------|
| 01609 (500mm <sup>2</sup> ) | 1200A, 600VAC |  | 25kA | 700mm                |
| 01609 (500mm <sup>2</sup> ) | 1200A, 600VAC |  | 30kA | 400mm                |
| 01608 (720mm <sup>2</sup> ) | 1400A, 600VAC |  | 25kA | 700mm                |
| 01608 (720mm <sup>2</sup> ) | 1400A, 600VAC |  | 30kA | 400mm                |



**60mm Busbar System –**  
Support spacing & SCCR values – 01231 (S630-L) with profile busbars

#### Circuit Breaker Protected System (Any DIVQ/7):

| Bus bar (cross section) 480VAC | Busbar Current | Max CB Rating | SCCR | Max support spacing* |
|--------------------------------|----------------|---------------|------|----------------------|
| 01609 (500mm <sup>2</sup> )    | 800A           | 800A          | 65kA | 800mm                |
| 01608 (720mm <sup>2</sup> )    | 800A           | 800A          | 65kA | 800mm                |
| <b>600VAC</b>                  |                |               |      |                      |
| 01609 (500mm <sup>2</sup> )    | 800A           | 800A          | 30kA | 800mm                |
| 01608 (720mm <sup>2</sup> )    | 800A           | 800A          | 30kA | 800mm                |

#### Fuse Protected System:

| Bus bar (cross section) 480VAC | Busbar Current | Max Fuse Rating | SCCR  | Max support spacing* |
|--------------------------------|----------------|-----------------|-------|----------------------|
| 01609 (500mm <sup>2</sup> )    | 800A           | 800A - T        | 100kA | 800mm                |
| 01609 (500mm <sup>2</sup> )    | 800A           | 600A - RK1      | 100kA | 800mm                |
| 01608 (720mm <sup>2</sup> )    | 800A           | 800A - T        | 100kA | 800mm                |
| 01608 (720mm <sup>2</sup> )    | 800A           | 600A - RK1      | 100kA | 800mm                |
| <b>600VAC</b>                  |                |                 |       |                      |
| 01609 (500mm <sup>2</sup> )    | 800A           | 600A - J, T     | 100kA | 800mm                |
| 01609 (500mm <sup>2</sup> )    | 800A           | 400A - RK1      | 100kA | 800mm                |
| 01608 (720mm <sup>2</sup> )    | 800A           | 600A - J, T     | 100kA | 800mm                |
| 01608 (720mm <sup>2</sup> )    | 800A           | 400A - RK1      | 100kA | 800mm                |

#### Unprotected System:

| Bus bar (cross section)     | Busbar Rating |  | SCCR | Max support spacing* |
|-----------------------------|---------------|--|------|----------------------|
| 01609 (500mm <sup>2</sup> ) | 1200A, 600V   |  | 25kA | 700mm                |
| 01609 (500mm <sup>2</sup> ) | 1200A, 600V   |  | 30kA | 400mm                |
| 01608 (720mm <sup>2</sup> ) | 1400A, 600V   |  | 25kA | 700mm                |
| 01608 (720mm <sup>2</sup> ) | 1400A, 600V   |  | 30kA | 400mm                |



**Centre-Feed Unit –**  
Support spacing & SCCR values – Z1140-L with profile busbars

#### Circuit Breaker Protected System (Any DIVQ/7):

| Bus bar (cross section) 480VAC | Busbar Rating | Max CB Rating | SCCR | Max support spacing* |
|--------------------------------|---------------|---------------|------|----------------------|
| 01609 (500mm <sup>2</sup> )    | 1200A, 480V   | 1200A         | 42kA | 610mm                |

#### Fuse Protected System:

| Bus bar (cross section) 480VAC | Busbar Rating | Max Fuse Rating | SCCR  | Max support spacing* |
|--------------------------------|---------------|-----------------|-------|----------------------|
| 01608 (720mm <sup>2</sup> )    | 1600A, 600V   | 1600A - L       | 100kA | 610mm                |

29 **Technical Specifications**  
Short Circuit Current Ratings (SCCR)

**Unprotected System:**

| Connection Set | Busbar Rating |  | SCCR | Max support spacing* |
|----------------|---------------|--|------|----------------------|
| 01240 (300A)   | 600VAC        |  | 10kA | 533                  |
| 01243 (440A)   | 600VAC        |  | 10kA | 533                  |

**Circuit Breaker Protected System (Any DIVQ/7):**

| Connection Set <b>480VAC</b> | Rating [A/V] | Max CB Rating | SCCR | Max support spacing* |
|------------------------------|--------------|---------------|------|----------------------|
| 01243 (440A)                 | 400A         | 400A          | 65kA | 800mm                |
| 01243 (440A)                 | 600A         | 600A          | 50kA | 800mm                |
| 01537 (560A)                 | 400A         | 400A          | 65kA | 800mm                |
| <b>600VAC</b>                |              |               |      |                      |
| 01243 (440A)                 | 400A         | 400A          | 35kA | 800mm                |
| 01243 (440A)                 | 600A         | 600A          | 35kA | 800mm                |
| 01537 (560A)                 | 400A         | 400A          | 35kA | 800mm                |

**Fuse Protected System:**

| Connection Set <b>480VAC</b> | Rating [A] | Max Fuse Rating | SCCR  | Max support spacing* |
|------------------------------|------------|-----------------|-------|----------------------|
| 01243 (440A)                 | 400A       | 400A - RK1      | 100kA | 800mm                |
| 01243 (440A)                 | 600A       | 600A - J, T     | 100kA | 800mm                |
| 01537 (560A)                 | 400A       | 400A - RK1      | 100kA | 800mm                |
| 01537 (560A)                 | 500A       | 500A - J, T     | 100kA | 800mm                |
| <b>600VAC</b>                |            |                 |       |                      |
| 01243 (440A)                 | 400A       | 400A - RK1      | 100kA | 800mm                |
| 01243 (440A)                 | 500A       | 500A - J, T     | 100kA | 800mm                |
| 01537 (560A)                 | 200A       | 200A - RK1      | 100kA | 800mm                |
| 01537 (560A)                 | 300A       | 300A - J, T     | 100kA | 800mm                |



**60mm Busbar  
System –  
60mm Busbar  
System –  
Connection Sets**

## Technical Specifications

### Short Circuit Current Ratings (SCCR)

#### Circuit Breaker Protected System (Any DIVQ/7):

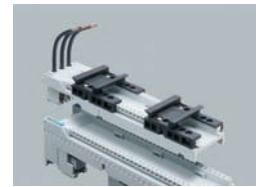
| Adapter <b>480VAC</b>             | Rating [A] | Max CB Rating | SCCR | Max support spacing* |
|-----------------------------------|------------|---------------|------|----------------------|
| EPC60160-L (32570, Moeller NZM1)  | 160A       | 125A          | 35kA | 400mm                |
| 60250.1-L (32137, A-B 140U-J)     | 250A       | 250A          | 65kA | 400mm                |
| 60250.1-L (32137, A-B 140U-J)     | 250A       | 250A          | 65kA | 800mm                |
| 60630.1-L (32138, A-B 140U-K, -L) | 630A       | 600A          | 65kA | 400mm                |
| 60630.1-L (32138, A-B 140U-K, -L) | 630A       | 400A          | 65kA | 800mm                |
| 60630.1-L (32138, A-B 140U-K, -L) | 630A       | 600A          | 50kA | 800mm                |
| <b>600VAC</b>                     |            |               |      |                      |
| 60250.1-L (32137, A-B 140U-J)     | 250A       | 250A          | 50kA | 400mm                |
| 60250.1-L (32137, A-B 140U-J)     | 250A       | 250A          | 25kA | 800mm                |
| 60630.1-L (32138, A-B 140U-K, -L) | 630A       | 600A          | 50kA | 400mm                |
| 60630.1-L (32138, A-B 140U-K, -L) | 630A       | 400A          | 35kA | 800mm                |
| 60630.1-L (32138, A-B 140U-K, -L) | 630A       | 600A          | 25kA | 800mm                |



**60mm Busbar System –**  
EQUES  
PowerConnectors

#### Unprotected System:

| Adapter   | Rating [A/V] |  | SCCR  | Max support spacing* |
|-----------|--------------|--|-------|----------------------|
| EEC6025-L | 25A, 600VAC  |  | 5kA   | 400mm                |
| EMC6025-L | 25A, 600VAC  |  | 5kA   | 400mm                |
| EEC6032-L | 32A, 600VAC  |  | 5kA   | 400mm                |
| EMC6032-L | 32A, 600VAC  |  | 5kA   | 400mm                |
| EMC6045-L | 45A, 600VAC  |  | 7.5kA | 400mm                |
| EEC6063-L | 63A, 600VAC  |  | 7.5kA | 400mm                |
| EEC6080-L | 80A, 600VAC  |  | 10kA  | 400mm                |



**60mm Busbar System –**  
EQUES  
EasyConnector  
& EQUES  
MotorController



### 31 Flat Flexible Busbar Current Ratings Heat Rise (Ambient temperature of 35°C)‡

| Part Number (Plain) | Part Number (Tinned) | Size        | 10°C | 20°C | 30°C | 40°C | 50°C | 60°C | 70°C |
|---------------------|----------------------|-------------|------|------|------|------|------|------|------|
| 01054               | 01083                | 9x0.8x3     | 59   | 92   | 119  | 141  | 162  | 180  | 196  |
| 01194               | 01084                | 9x0.8x6     | 88   | 137  | 176  | 210  | 240  | 266  | 291  |
| 01322               |                      | 13x0.5x4    | 69   | 108  | 140  | 166  | 190  | 211  | 231  |
| 01050               | 01146                | 13x0.5x6    | 87   | 135  | 174  | 207  | 237  | 263  | 288  |
| 01196               | 01089                | 15.5x0.8x4  | 102  | 159  | 205  | 244  | 279  | 310  | 339  |
| 01035               | 01090                | 15.5x0.8x6  | 128  | 199  | 257  | 306  | 350  | 389  | 424  |
| 01583               | 01091                | 15.5x0.8x10 | 172  | 268  | 345  | 411  | 470  | 523  | 571  |
| 01027               | 01062                | 20x1x3      | 119  | 186  | 240  | 286  | 326  | 363  | 396  |
| 01028               | 01063                | 20x1x6      | 174  | 272  | 351  | 418  | 477  | 531  | 580  |
| 01029               | 01064                | 20x1x10     | 234  | 365  | 470  | 560  | 640  | 711  | 777  |
| 01253               |                      | 24x1x4      | 160  | 250  | 322  | 383  | 438  | 487  | 532  |
| 01611               | 01075                | 24x1x5      | 181  | 282  | 363  | 433  | 494  | 550  | 600  |
| 01255               |                      | 24x1x6      | 200  | 312  | 402  | 479  | 547  | 608  | 664  |
| 01323               |                      | 24x1x8      | 234  | 366  | 471  | 562  | 641  | 712  | 779  |
| 01184               | 01076                | 24x1x10     | 266  | 415  | 534  | 637  | 727  | 809  | 883  |
| 01612               | 01095                | 32x1x5      | 226  | 352  | 453  | 540  | 617  | 686  | 749  |
| 01613               | 01096                | 32x1x10     | 327  | 510  | 657  | 783  | 894  | 995  | 1086 |
| 01614               | 01097                | 40x1x5      | 269  | 420  | 541  | 644  | 736  | 818  | 894  |
| 01256               |                      | 40x1x6      | 296  | 461  | 594  | 708  | 809  | 900  | 982  |
| 01615               | 01099                | 40x1x10     | 385  | 601  | 774  | 922  | 1053 | 1171 | 1279 |
| 01060               | 01112                | 50x1x5      | 322  | 502  | 646  | 770  | 880  | 978  | 1068 |
| 01343               |                      | 50x1x8      | 407  | 635  | 818  | 975  | 1114 | 1238 | 1352 |
| 01509               | 01113                | 50x1x10     | 455  | 709  | 914  | 1089 | 1244 | 1383 | 1510 |
| 01324               |                      | 63x1x5      | 388  | 605  | 779  | 929  | 1061 | 1179 | 1288 |
| 01510               | 01123                | 63x1x10     | 541  | 844  | 1088 | 1296 | 1481 | 1646 | 1798 |
| 01061               |                      | 80x1x10     | 649  | 1012 | 1305 | 1556 | 1777 | 1976 | 2157 |
| 01273               |                      | 100x1x10    | 771  | 1203 | 1550 | 1848 | 2110 | 2347 | 2562 |

‡ Wöhner flat flexible busbar is insulated for 105°C -- size to the terminal rating of the application.

#### Allowable Ampacities – Insulated Copper Wire

#### Bend Radius – Terminal to Wall

#### AWG to mm2

| AWG      | NEC Table 310-16 |      |      | Wires per terminal |         |         |          | Diameter-In. |                 | Metric XR | AWG      |
|----------|------------------|------|------|--------------------|---------|---------|----------|--------------|-----------------|-----------|----------|
|          | 60°C             | 75°C | 90°C | 1 Wire             | 2 Wires | 3 Wires | ≥4 Wires | Stranded     | mm <sup>2</sup> |           |          |
| 18       |                  |      | 14   |                    |         |         |          | 0.046        | 0.75            |           | 18       |
| 16       |                  |      | 18   |                    |         |         |          | 0.058        | 1.5             |           | 16       |
| 14       | 20 †             | 20 † | 25 † |                    |         |         |          | 0.073        | 2.5             |           | 14       |
| 12       | 25 †             | 25 † | 30 † |                    |         |         |          | 0.092        | 4               |           | 12       |
| 10       | 30               | 35 † | 40 † |                    |         |         |          | 0.116        | 6               |           | 10       |
| 8        | 40               | 50   | 55   | 1-1/2"             |         |         |          | 0.146        | 10              |           | 8        |
| 6        | 55               | 65   | 75   | 1-1/2"             |         |         |          | 0.184        | 16              |           | 6        |
| 4        | 70               | 85   | 95   | 2"                 |         |         |          | 0.232        | 25              |           | 4        |
| 3        | 85               | 100  | 110  | 2"                 |         |         |          | 0.260        |                 |           | 3        |
| 2        | 95               | 115  | 130  | 2-1/2"             |         |         |          | 0.292        | 35              |           | 2        |
| 1        | 110              | 130  | 150  | 3"                 |         |         |          | 0.332        |                 |           | 1        |
| 1/0      |                  | 150  | 170  | 5"                 | 5"      | 7"      |          | 0.373        |                 |           | 1/0      |
| 2/0      |                  | 175  | 195  | 6"                 | 6"      | 7-1/2"  |          | 0.419        | 70              |           | 2/0      |
| 3/0      |                  | 200  | 225  | 7"                 | 7"      | 8"      |          | 0.470        | 95              |           | 3/0      |
| 4/0      |                  | 230  | 260  | 7"                 | 7"      | 8-1/2"  |          | 0.825        |                 |           | 4/0      |
| 250kcmil |                  | 255  | 290  | 8"                 | 8"      | 9"      | 10"      | 0.575        | 120             |           | 250kcmil |
| 300      |                  | 285  | 320  | 10"                | 10"     | 11"     | 12"      | 0.630        | 150             |           | 300      |
| 350      |                  | 310  | 350  | 12"                | 12"     | 13"     | 14"      | 0.681        | 185             |           | 350      |
| 400      |                  | 335  | 380  | 12"                | 12"     | 14"     | 15"      | 0.728        |                 |           | 400      |
| 500      |                  | 380  | 430  | 12"                | 12"     | 15"     | 16"      | 0.813        | 240             |           | 500      |
| 600      |                  | 420  | 475  | 14"                | 16"     | 18"     | 19"      | 0.893        | 300             |           | 600      |

† unless otherwise specifically permitted elsewhere in the code, the overcurrent protection for conductor types marked with an obelisk (†) shall not exceed the following: 14AWG - 15A, 12AWG - 20A, and 10 AWG - 30A.

## Full Load Current for 3Ø Motors

| Motor HP | FLA 230V | FLA 380V | FLA 460V | FLA 575V |
|----------|----------|----------|----------|----------|
| 1/2      | 2.2      | 1.3      | 1.1      | 0.9      |
| 3/4      | 3.2      | 1.7      | 1.6      | 1.3      |
| 1        | 4.2      | 2.7      | 2.1      | 1.7      |
| 1-1/2    | 6.0      | 3.6      | 3.0      | 2.4      |
| 2        | 6.8      | 4.1      | 3.4      | 2.7      |
| 3        | 9.6      | 5.8      | 4.8      | 3.9      |
| 5        | 15.2     | 9.2      | 7.6      | 6.1      |
| 7-1/2    | 22.0     | 13.3     | 11       | 9        |
| 10       | 28       | 17       | 14       | 11       |
| 15       | 42       | 25       | 21       | 17       |
| 20       | 54       | 33       | 27       | 22       |
| 25       | 68       | 41       | 34       | 27       |
| 30       | 80       | 48       | 40       | 32       |
| 40       | 104      | 68       | 52       | 41       |
| 50       | 130      | 79       | 65       | 52       |
| 60       | 154      | 93       | 77       | 62       |
| 75       | 192      | 116      | 96       | 77       |
| 100      | 248      | 150      | 124      | 99       |
| 125      | 312      | 186      | 156      | 125      |
| 150      | 360      | 218      | 180      | 144      |
| 200      | 480      | 291      | 240      | 192      |
| 250      |          |          | 302      | 242      |
| 300      |          |          | 361      | 289      |

Minimum Fuse Sizing: 125% of motor full load current

Typical Fuse Sizing: 150% of motor full load current

## Primary Full Load Current for 3Ø Transformers

| KVA     | FLA 240V | FLA 480V | FLA 600V |
|---------|----------|----------|----------|
| 3       | 7.2      | 3.6      | 2.9      |
| 5       | 12       | 6        | 4.8      |
| 7-1/2   | 18       | 9        | 7.2      |
| 9       | 22       | 11       | 9        |
| 15      | 36       | 18       | 14       |
| 30      | 72       | 36       | 29       |
| 45      | 108      | 54       | 43       |
| 75      | 180      | 90       | 72       |
| 100     | 241      | 120      | 96       |
| 112-1/2 | 271      | 135      | 108      |
| 150     | 361      | 180      | 144      |
| 225     | 541      | 271      | 217      |
| 300     | 722      | 361      | 189      |
| 500     | 1203     | 601      | 481      |

### Fuse Sizing: Primary Fusing Only

| Transformer     | Maximum Primary Fuse    |
|-----------------|-------------------------|
| Primary Current | Rating (%)              |
| ≥9              | 125* (NEC) / 150* (CEC) |
| 2 to 9          | 167                     |
| <2              | 300                     |

\*may increase to the next higher std. fuse size

### Fuse Sizing: Primary and Secondary Fusing

| Transformer       | Maximum Fuse Rating (%) |     |           |
|-------------------|-------------------------|-----|-----------|
| Secondary Current | Primary                 |     | Secondary |
| ≥9 Amps           | NEC                     | CEC |           |
| <9 Amps           | 250                     | 300 | 125*      |
|                   | 250                     | 300 | 167       |

\*may increase to the next higher std. fuse size

## Relevant Conversion Formulas

### Length, Distance

|       |         |        |         |
|-------|---------|--------|---------|
| To:   | mm      | in     | ft      |
| From: |         |        |         |
| mm    |         | / 25.4 | / 304.8 |
| in    | x 25.4  |        | / 12    |
| ft    | x 304.8 | x 12   |         |

### Torque

|       |           |           |           |
|-------|-----------|-----------|-----------|
| To:   | Nm        | lb-in.    | lb-ft     |
| From: |           |           |           |
| Nm    |           | x 8.85666 | / 1.35491 |
| lb-in | / 8.85666 |           | / 12      |
| lb-ft | x 1.35491 | x 12      |           |

| Part Number | Page Number | Type Number | Listing                                                                           | Listing                                                                           | Listing |
|-------------|-------------|-------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------|
|             |             |             |  |  | UL508A  |
| 01008       | 10          | HH64.2      | •                                                                                 |                                                                                   | •       |
| 01025       | 8           | C025-L      |                                                                                   | •                                                                                 | •       |
| 01026       | 8           | C026-L      |                                                                                   | •                                                                                 | •       |
| 01027       | 5           | 3x20x1      | •                                                                                 |                                                                                   |         |
| 01028       | 5           | 6x20x1      | •                                                                                 |                                                                                   |         |
| 01029       | 5           | 10x20x1     | •                                                                                 |                                                                                   |         |
| 01035       | 5           | 6x15.5x0.8  | •                                                                                 |                                                                                   |         |
| 01050       | 5           | 6x13x0.5    | •                                                                                 |                                                                                   |         |
| 01054       | 5           | 3x9x0.8     | •                                                                                 |                                                                                   |         |
| 01060       | 5           | 5x50x1      | •                                                                                 |                                                                                   |         |
| 01061       | 5           | 10x80x1     | •                                                                                 |                                                                                   |         |
| 01062       | 5           | 3x20x1      | •                                                                                 |                                                                                   |         |
| 01063       | 5           | 6x20x1      | •                                                                                 |                                                                                   |         |
| 01064       | 5           | 10x20x1     | •                                                                                 |                                                                                   |         |
| 01068       | 9           | 524         | •                                                                                 |                                                                                   | •       |
| 01069       | 10,22       | CPC50       | •                                                                                 |                                                                                   | •       |
| 01070       | 10,22       | CPC63       | •                                                                                 |                                                                                   | •       |
| 01071       | 10,22       | CPC100      | •                                                                                 |                                                                                   | •       |
| 01075       | 5           | 5x24x1      | •                                                                                 |                                                                                   |         |
| 01076       | 5           | 10x24x1     | •                                                                                 |                                                                                   |         |
| 01083       | 5           | 3x9x0.8     | •                                                                                 |                                                                                   |         |
| 01084       | 5           | 6x9x0.8     | •                                                                                 |                                                                                   |         |
| 01089       | 5           | 4x15.5x0.8  | •                                                                                 |                                                                                   |         |
| 01090       | 5           | 6x15.5x0.8  | •                                                                                 |                                                                                   |         |
| 01091       | 5           | 10x15.5x0.8 | •                                                                                 |                                                                                   |         |
| 01092       | 10          |             |                                                                                   |                                                                                   |         |
| 01094       | 10          |             |                                                                                   |                                                                                   |         |
| 01095       | 5           | 5x32x1      | •                                                                                 |                                                                                   |         |
| 01096       | 5           | 10x32x1     | •                                                                                 |                                                                                   |         |
| 01097       | 5           | 5x40x1      | •                                                                                 |                                                                                   |         |
| 01099       | 5           | 10x40x1     | •                                                                                 |                                                                                   |         |
| 01112       | 5           | 5x50x1      | •                                                                                 |                                                                                   |         |
| 01113       | 5           | 10x50x1     | •                                                                                 |                                                                                   |         |
| 01123       | 5           | 10x63x1     | •                                                                                 |                                                                                   |         |
| 01132       | 6           | S645        | waiting approval                                                                  |                                                                                   |         |
| 01135       | 1           | 515         |                                                                                   | •                                                                                 | •       |
| 01136       | 8           | TC60-L      |                                                                                   | •                                                                                 | •       |
| 01137       | 8           | TC60-L      |                                                                                   | •                                                                                 | •       |
| 01141       | 9           | LV30        | •*                                                                                |                                                                                   | •       |
| 01145       | 9           | LVH         | •*                                                                                |                                                                                   | •       |
| 01146       | 5           | 6x13x0.5    | •                                                                                 |                                                                                   |         |
| 01147       | 7           | M300        |                                                                                   | •                                                                                 | •       |
| 01162       | 7           | M3210       |                                                                                   | •                                                                                 | •       |
| 01165       | 1           | M150        |                                                                                   | •                                                                                 | •       |
| 01166       | 9           | LV20        | •*                                                                                |                                                                                   | •       |
| 01184       | 5           | 10x24x1     | •                                                                                 |                                                                                   |         |
| 01186       | 10          | HH101.2     | •                                                                                 |                                                                                   | •       |
| 01187       | 5           | HH1140-L    |                                                                                   | •                                                                                 | •       |
| 01190       | 5           | H720-L      |                                                                                   | •                                                                                 | •       |

| Part Number | Page Number | Type Number | Listing                                                                             | Listing                                                                             | Listing |
|-------------|-------------|-------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------|
|             |             |             |  |  | UL508A  |
| 01193       | 9           | LV20        | •*                                                                                  |                                                                                     |         |
| 01194       | 5           | 6x9x0.8     | •                                                                                   |                                                                                     |         |
| 01196       | 5           | 4x15.5x0.8  | •                                                                                   |                                                                                     |         |
| 01199       | 7           |             |                                                                                     |                                                                                     |         |
| 01203       | 9           | 528         | •                                                                                   |                                                                                     | •       |
| 01204       | 5           | 30x10-L     |                                                                                     | •                                                                                   | •       |
| 01224       | 5           | H500-L      |                                                                                     | •                                                                                   | •       |
| 01225       | 22          |             |                                                                                     |                                                                                     |         |
| 01226       | 22          |             |                                                                                     |                                                                                     |         |
| 01227       | 5           | HH1140-L    |                                                                                     | •                                                                                   | •       |
| 01231       | 6           | S630-L      |                                                                                     | •                                                                                   | •       |
| 01232       | 6           | S640        |                                                                                     | •                                                                                   | •       |
| 01234       | 6           | 234-L       |                                                                                     | •                                                                                   | •       |
| 01236       | 8           |             |                                                                                     |                                                                                     |         |
| 01237       | 8           |             |                                                                                     |                                                                                     |         |
| 01238       | 8           |             |                                                                                     |                                                                                     |         |
| 01240       | 7           | 240-L       |                                                                                     | •                                                                                   | •       |
| 01243       | 7           | 243-L       |                                                                                     | •                                                                                   | •       |
| 01244       | 8           | C30x5-L     |                                                                                     | •                                                                                   | •       |
| 01245       | 8           | C30x10-L    |                                                                                     | •                                                                                   | •       |
| 01252       | 8           | CHH-L       |                                                                                     | •                                                                                   | •       |
| 01253       | 5           | 4x24x1      | •                                                                                   |                                                                                     |         |
| 01255       | 5           | 6x24x1      | •                                                                                   |                                                                                     |         |
| 01256       | 5           | 6x40x1      | •                                                                                   |                                                                                     |         |
| 01272       | 1           | S612        |                                                                                     | •                                                                                   | •       |
| 01273       | 5           | 10x100x1    | •                                                                                   |                                                                                     |         |
| 01274       | 9           | LVHH        | •*                                                                                  |                                                                                     | •       |
| 01275       | 9           | LVHH        | •*                                                                                  |                                                                                     | •       |
| 01284       | 1,9         | 521         | •                                                                                   |                                                                                     | •       |
| 01285       | 1,9         | 522         | •                                                                                   |                                                                                     | •       |
| 01287       | 1,9         | 523         | •                                                                                   |                                                                                     | •       |
| 01289       | 1,9         | 525         | •                                                                                   |                                                                                     | •       |
| 01290       | 1,9         | 526         | •                                                                                   |                                                                                     | •       |
| 01292       | 1,9         | 527         | •                                                                                   |                                                                                     | •       |
| 01300       | 7           | 240         |                                                                                     | •                                                                                   | •       |
| 01301       | 7           | 243         |                                                                                     | •                                                                                   | •       |
| 01303       | 6           |             |                                                                                     |                                                                                     |         |
| 01314       | 1           | C314        |                                                                                     | •                                                                                   | •       |
| 01317       | 1           | C317        |                                                                                     | •                                                                                   | •       |
| 01318       | 9,22        | 518         | •                                                                                   |                                                                                     | •       |
| 01319       | 9,22        | 519         | •                                                                                   |                                                                                     | •       |
| 01322       | 5           | 4x13x0.5    | •                                                                                   |                                                                                     |         |
| 01323       | 5           | 8x24x1      | •                                                                                   |                                                                                     |         |
| 01324       | 5           | 5x63x1      | •                                                                                   |                                                                                     |         |
| 01343       | 5           | 8x50x1      | •                                                                                   |                                                                                     |         |
| 01357       | 6           | S62015      |                                                                                     |                                                                                     |         |
| 01359       | 6           | D620        |                                                                                     |                                                                                     |         |
| 01360       | 9           | P620        | •                                                                                   |                                                                                     | •       |
| 01361       | 9           | P620        | •                                                                                   |                                                                                     | •       |

• approved

•\* UL recognized when used with 01360, 01361 and 01362

| Part Number | Page Number | Type Number | Listing                                                                           | Listing                                                                           | Listing |
|-------------|-------------|-------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------|
|             |             |             |  |  | UL508A  |
| 01362       | 9           | P620        | •                                                                                 |                                                                                   | •       |
| 01369       | 23          |             |                                                                                   |                                                                                   |         |
| 01377       | 23          | TCC         |                                                                                   |                                                                                   |         |
| 01378       | 23          | TCC         |                                                                                   |                                                                                   |         |
| 01379       | 23          |             |                                                                                   |                                                                                   |         |
| 01380       | 23          |             |                                                                                   |                                                                                   |         |
| 01508       | 6           | S620-L      |                                                                                   | •                                                                                 | •       |
| 01509       | 5           | 10x50x1     | •                                                                                 |                                                                                   |         |
| 01510       | 5           | 10x63x1     | •                                                                                 |                                                                                   |         |
| 01513       | 10          | HH41.2      | •                                                                                 |                                                                                   | •       |
| 01515       | 6           | B620-L      |                                                                                   | •                                                                                 | •       |
| 01518       | 6           | B620-L      |                                                                                   | •                                                                                 | •       |
| 01537       | 7           | M300-L      |                                                                                   | •                                                                                 | •       |
| 01538       | 7           | M3210       |                                                                                   | •                                                                                 | •       |
| 01539       | 8           | CTC60-L     |                                                                                   | •                                                                                 | •       |
| 01540       | 8           | CTC60-L     |                                                                                   | •                                                                                 | •       |
| 01554       | 8           | C60.1-L     |                                                                                   | •                                                                                 | •       |
| 01555       | 8           | C60.2-L     |                                                                                   | •                                                                                 | •       |
| 01563       | 7           | CPL16       |                                                                                   | •                                                                                 | •       |
| 01573       | 6           | 511-L       |                                                                                   | •                                                                                 | •       |
| 01583       | 5           | 10x15.5x0.8 | •                                                                                 |                                                                                   |         |
| 01596       | 8           | CTC60-L     |                                                                                   | •                                                                                 | •       |
| 01597       | 8           | CTC60-L     |                                                                                   | •                                                                                 | •       |
| 01599       | 8           | C60.1-L     |                                                                                   | •                                                                                 | •       |
| 01601       | 6           |             | •                                                                                 |                                                                                   | •       |
| 01608       | 5,22        | H720-L      |                                                                                   | •                                                                                 | •       |
| 01609       | 5,22        | H500-L      |                                                                                   | •                                                                                 | •       |
| 01610       | 5, 23       | TCC         |                                                                                   |                                                                                   |         |
| 01611       | 5           | 5x24x1      | •                                                                                 |                                                                                   |         |
| 01612       | 5           | 5x32x1      | •                                                                                 |                                                                                   |         |
| 01613       | 5           | 10x32x1     | •                                                                                 |                                                                                   |         |
| 01614       | 5           | 5x40x1      | •                                                                                 |                                                                                   |         |
| 01615       | 5           | 10x40x1     | •                                                                                 |                                                                                   |         |
| 01618       | 1,5         | 12x5-L      |                                                                                   | •                                                                                 | •       |
| 0161812     | 5           | 12x5-L      |                                                                                   | •                                                                                 | •       |
| 01620       | 5           | 20x5-L      |                                                                                   | •                                                                                 | •       |
| 0162012     | 5           | 20x5-L      |                                                                                   | •                                                                                 | •       |
| 01622       | 5           | 30x5-L      |                                                                                   | •                                                                                 | •       |
| 0162212     | 5           | 30x5-L      |                                                                                   | •                                                                                 | •       |
| 01623       | 1           | 12x10-L     |                                                                                   | •                                                                                 | •       |
| 0162312     | 5           | 12x10-L     |                                                                                   | •                                                                                 | •       |
| 01624       | 5           | 20x10-L     |                                                                                   | •                                                                                 | •       |
| 0162412     | 5           | 20x10-L     |                                                                                   | •                                                                                 | •       |
| 01625       | 5           | 30x10-L     |                                                                                   | •                                                                                 | •       |
| 0162512     | 5           | 30x10-L     |                                                                                   | •                                                                                 | •       |
| 01753       | 7           |             |                                                                                   |                                                                                   |         |
| 01754       | 7           | 413         | •                                                                                 |                                                                                   |         |
| 01756       | 8           | 512-L       |                                                                                   | •                                                                                 | •       |
| 01757       | 8           | 513-L       |                                                                                   | •                                                                                 | •       |

| Part Number | Page Number | Type Number | Listing                                                                             | Listing                                                                             | Listing |
|-------------|-------------|-------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------|
|             |             |             |  |  | UL508A  |
| 01759       | 9,22        | 530         | •                                                                                   |                                                                                     | •       |
| 01760       | 9,22        | 529         | •                                                                                   |                                                                                     | •       |
| 01823       | 9           | LV30        | •*                                                                                  |                                                                                     | •       |
| 01827       | 9           | LVH         | •*                                                                                  |                                                                                     | •       |
| 01829       | 9           | LVH         | •*                                                                                  |                                                                                     | •       |
| 01831       | 22          |             |                                                                                     |                                                                                     |         |
| 01838       | 22          |             |                                                                                     |                                                                                     |         |
| 01876       | 6           | 876         | •                                                                                   |                                                                                     | •       |
| 01886       | 9           | LV30        | •*                                                                                  |                                                                                     | •       |
| 01906       | 10          | H51.1       | •                                                                                   |                                                                                     | •       |
| 01907       | 10          | H64.1       | •                                                                                   |                                                                                     | •       |
| 01911       | 10          | H64.2       | •                                                                                   |                                                                                     | •       |
| 01934       | 10          | H81.2       | •                                                                                   |                                                                                     | •       |
| 01935       | 10          | H101.2      | •                                                                                   |                                                                                     | •       |
| 01936       | 10          | H51.2       | •                                                                                   |                                                                                     | •       |
| 01990       | 9           | LV30        | •*                                                                                  |                                                                                     | •       |
| 03199       | 2           |             |                                                                                     |                                                                                     |         |
| 31110       | 17          | AES 10x38   | •                                                                                   |                                                                                     | •       |
| 31112       | 17          | AES 10x38   | •                                                                                   |                                                                                     | •       |
| 31113       | 17          | AES 10x38   | •                                                                                   |                                                                                     | •       |
| 31130       | 17          | AES 10x38   | •                                                                                   |                                                                                     | •       |
| 31132       | 17          | AES 10x38   | •                                                                                   |                                                                                     | •       |
| 31133       | 17          | AES 10x38   | •                                                                                   |                                                                                     | •       |
| 31135       | 18          | AES 14x51   | •                                                                                   |                                                                                     | •       |
| 31138       | 18          | AES 14x51   | •                                                                                   |                                                                                     | •       |
| 31140       | 18          | AES 22x58   | •                                                                                   |                                                                                     | •       |
| 31143       | 18          | AES 22x58   | •                                                                                   |                                                                                     | •       |
| 31267       | 20          |             |                                                                                     |                                                                                     |         |
| 31268       | 20          |             |                                                                                     |                                                                                     |         |
| 31275       | 18          | AES 10x38   | •                                                                                   |                                                                                     | •       |
| 31276       | 18          | AES 10x38   | •                                                                                   |                                                                                     | •       |
| 31277       | 18          | AES 10x38   | •                                                                                   |                                                                                     | •       |
| 31278       | 18          | AES 14x51   | •                                                                                   |                                                                                     | •       |
| 31279       | 18          | AES 14x51   | •                                                                                   |                                                                                     | •       |
| 31280       | 18          | AES 14x51   | •                                                                                   |                                                                                     | •       |
| 31281       | 18          | AES 22x58   | •                                                                                   |                                                                                     | •       |
| 31282       | 18          | AES 22x58   | •                                                                                   |                                                                                     | •       |
| 31283       | 18          | AES 22x58   | •                                                                                   |                                                                                     | •       |
| 31284       | 19          | AJC 30      |                                                                                     | •                                                                                   |         |
| 31285       | 19          | AJC 30      |                                                                                     | •                                                                                   | •       |
| 31287       | 19          | AJC 30      |                                                                                     | •                                                                                   | •       |
| 31295       | 17          | AES CC      |                                                                                     | •                                                                                   | •       |
| 31296       | 17          | AES CC      |                                                                                     | •                                                                                   | •       |
| 31297       | 17          | AES CC      |                                                                                     | •                                                                                   | •       |
| 31298       | 17          | AES CC      |                                                                                     | •                                                                                   | •       |
| 31299       | 17          | AES CC      |                                                                                     | •                                                                                   | •       |
| 31300       | 17          | AES CC      |                                                                                     | •                                                                                   | •       |
| 31524       | 20          |             |                                                                                     |                                                                                     |         |
| 31548       | 20          | CTB25-118   |                                                                                     | •                                                                                   | •       |
| 31549       | 20          | CTB25-318   |                                                                                     | •                                                                                   | •       |

• approved

•\* UL recognized when used with 01360, 01361 and 01362

| Part Number | Page Number | Type Number  | Listing                                                                           | Listing                                                                           | Listing |
|-------------|-------------|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------|
|             |             |              |  |  | UL508A  |
| 31550       | 20          |              |                                                                                   |                                                                                   |         |
| 31561       | 20          | CTB25-218    |                                                                                   | •                                                                                 |         |
| 31552       | 20          |              |                                                                                   |                                                                                   |         |
| 31920       | 19          | AJC 60       |                                                                                   | •                                                                                 | •       |
| 31921       | 19          | AJC 60       |                                                                                   | •                                                                                 | •       |
| 31922       | 19          | AJC 60       |                                                                                   | •                                                                                 | •       |
| 31923       | 19          | AJC 60       |                                                                                   | •                                                                                 | •       |
| 31924       | 19          | AJC 60       |                                                                                   | •                                                                                 | •       |
| 31925       | 19          | AJC 60       |                                                                                   | •                                                                                 | •       |
| 31929       | 17          | AES CC       |                                                                                   | •                                                                                 | •       |
| 31930       | 17          | AES 10x38    |                                                                                   |                                                                                   |         |
| 31932       | 19          | AJC 30       |                                                                                   | •                                                                                 | •       |
| 31933       | 19          | AJC 30       |                                                                                   | •                                                                                 | •       |
| 31934       | 19          | AJC 30       |                                                                                   | •                                                                                 | •       |
| 31940       | 18          | AES 14x51    | •                                                                                 |                                                                                   | •       |
| 31941       | 18          | AES 14x51    | •                                                                                 |                                                                                   | •       |
| 31942       | 18          | AES 14x51    | •                                                                                 |                                                                                   | •       |
| 31943       | 18          | AES 14x51    | •                                                                                 |                                                                                   | •       |
| 31954       | 14          | AEL10x38     |                                                                                   | •                                                                                 | •       |
| 31955       | 14          | AEL10x38     |                                                                                   | •                                                                                 | •       |
| 31957       | 18          | AES 22x58    | •                                                                                 |                                                                                   | •       |
| 31958       | 14          | AEL CC       |                                                                                   | •                                                                                 | •       |
| 31959       | 14          | AEL CC       |                                                                                   | •                                                                                 | •       |
| 31967       | 14          | EEC6032AJC30 |                                                                                   | •                                                                                 | •       |
| 31968       | 14          | EEC6032AJC30 |                                                                                   | •                                                                                 | •       |
| 31969       | 14          | EEC6032AJC30 |                                                                                   | •                                                                                 | •       |
| 31970       | 14          | EEC6032AJC30 |                                                                                   | •                                                                                 | •       |
| 31971       | 17          | AES 10x38    |                                                                                   |                                                                                   |         |
| 31972       | 18          | AES 14x51    | •                                                                                 |                                                                                   | •       |
| 31973       | 17          |              |                                                                                   |                                                                                   |         |
| 32004       | 13          |              |                                                                                   |                                                                                   |         |
| 32016       | 15          |              |                                                                                   | •                                                                                 | •       |
| 32109       | 15          |              | •                                                                                 |                                                                                   | •       |
| 32110       | 15          |              | •                                                                                 |                                                                                   | •       |
| 32137       | 15,16       |              |                                                                                   | •                                                                                 | •       |
| 32138       | 15,16       |              |                                                                                   | •                                                                                 | •       |
| 32140       | 15,16       | 60250.1-L    |                                                                                   | •                                                                                 | •       |
| 32146       | 12          |              |                                                                                   | •                                                                                 | •       |
| 32156       | 15,16       | 60250.1-L    |                                                                                   | •                                                                                 | •       |
| 32157       | 15,16       | 60630.1-L    |                                                                                   | •                                                                                 | •       |
| 32168       | 13          | 60250        | •                                                                                 |                                                                                   |         |
| 32170       | 15, 16      | 60630.1-L    |                                                                                   | •                                                                                 | •       |
| 32214       | 13          | 60200        | •                                                                                 |                                                                                   |         |
| 32215       | 13          | 60200        | •                                                                                 |                                                                                   |         |
| 32216       | 13          | 60250        | •                                                                                 |                                                                                   |         |
| 32400       | 11          | EMC6025-L    |                                                                                   | •                                                                                 | •       |
| 32401       | 11          | EMC6025-L    |                                                                                   | •                                                                                 | •       |
| 32402       | 11          | EMC6025-L    |                                                                                   | •                                                                                 | •       |
| 32404       | 11          | EMC6032-L    |                                                                                   | •                                                                                 | •       |
| 32408       | 11          | EMC6032-L    |                                                                                   | •                                                                                 | •       |
| 32412       | 11          | EMC6045-L    |                                                                                   | •                                                                                 | •       |

| Part Number | Page Number | Type Number | Listing                                                                             | Listing                                                                             | Listing |
|-------------|-------------|-------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------|
|             |             |             |  |  | UL508A  |
| 32416       | 11          | EMC6045-L   |                                                                                     | •                                                                                   | •       |
| 32420       | 11          | EMC6000-L   |                                                                                     | •                                                                                   | •       |
| 32421       | 11          | EMC6000-L   |                                                                                     | •                                                                                   | •       |
| 32425       | 11          | EMC6000-L   |                                                                                     | •                                                                                   | •       |
| 32426       | 11          | EMC6000-L   |                                                                                     | •                                                                                   | •       |
| 32430       | 12          | EEC6025-L   |                                                                                     | •                                                                                   | •       |
| 32431       | 12          | EEC6025-L   |                                                                                     | •                                                                                   | •       |
| 32432       | 12          | EEC6025-L   |                                                                                     | •                                                                                   | •       |
| 32433       | 12          | EEC6025-L   |                                                                                     | •                                                                                   | •       |
| 32436       | 12          | EEC6025-L   |                                                                                     | •                                                                                   | •       |
| 32439       | 12          | EEC6025-L   |                                                                                     | •                                                                                   | •       |
| 32441       | 12          | EEC6032-L   |                                                                                     | •                                                                                   | •       |
| 32442       | 12          | EEC6032-L   |                                                                                     | •                                                                                   | •       |
| 32443       | 12          | EEC6032-L   |                                                                                     | •                                                                                   | •       |
| 32444       | 12          | EEC6032-L   |                                                                                     | •                                                                                   | •       |
| 32446       | 12          | EEC6032-L   |                                                                                     | •                                                                                   | •       |
| 32449       | 12          | EEC6032-L   |                                                                                     | •                                                                                   | •       |
| 32454       | 12          | EEC6063-L   |                                                                                     | •                                                                                   | •       |
| 32455       | 12          | EEC6063-L   |                                                                                     | •                                                                                   | •       |
| 32456       | 12          | EEC6063-L   |                                                                                     | •                                                                                   | •       |
| 32457       | 12          | EEC6063-L   |                                                                                     | •                                                                                   | •       |
| 32459       | 12          | EEC6063-L   |                                                                                     | •                                                                                   | •       |
| 32461       | 12          | EEC6063-L   |                                                                                     | •                                                                                   | •       |
| 32466       | 12          | EEC6080-L   |                                                                                     | •                                                                                   | •       |
| 32467       | 12          | EEC6080-L   |                                                                                     | •                                                                                   | •       |
| 32469       | 12          | EEC6080-L   |                                                                                     | •                                                                                   | •       |
| 32472       | 12          | EEC6080-L   |                                                                                     | •                                                                                   | •       |
| 32477       | 13          | EEC6000-L   |                                                                                     | •                                                                                   | •       |
| 32478       | 13          | EEC6000-L   |                                                                                     | •                                                                                   | •       |
| 32484       | 13          | EEC6000-L   |                                                                                     | •                                                                                   | •       |
| 32485       | 13          | EEC6000-L   |                                                                                     | •                                                                                   | •       |
| 32486       | 13          |             |                                                                                     |                                                                                     |         |
| 32487       | 13          |             |                                                                                     |                                                                                     |         |
| 32511       | 11          |             |                                                                                     | •                                                                                   | •       |
| 32513       | 11          |             |                                                                                     | •                                                                                   | •       |
| 32549       | 15,16       | EPC60160-L  |                                                                                     | •                                                                                   | •       |
| 32570       | 15,16       | EPC60160-L  |                                                                                     | •                                                                                   | •       |
| 32571       | 15, 16      | EPC60160-L  |                                                                                     | •                                                                                   | •       |
| 32575       | 15,16       | EPC60160-L  |                                                                                     | •                                                                                   | •       |
| 32577       | 15, 16      | EPC60160-L  |                                                                                     | •                                                                                   | •       |
| 32590       | 1           | EEC6032     |                                                                                     | •                                                                                   | •       |
| 32591       | 1           | EEC6063     |                                                                                     | •                                                                                   | •       |
| 32592       | 15,16       |             |                                                                                     | •                                                                                   | •       |
| 32593       | 15, 16      |             |                                                                                     | •                                                                                   | •       |
| 32594       | 2           |             |                                                                                     |                                                                                     |         |
| 32601       | 15, 16      |             |                                                                                     | •                                                                                   | •       |
| 32910       | 13          |             |                                                                                     |                                                                                     |         |
| 32911       | 13          |             |                                                                                     |                                                                                     |         |
| 32937       | 13          |             |                                                                                     |                                                                                     |         |
| 32938       | 13          |             |                                                                                     |                                                                                     |         |
| 32947       | 11          | TS35-L      |                                                                                     | •                                                                                   | •       |

• approved      •\* UL recognized when used with 01360, 01361 and 01362



| Part Number | Page Number | Type Number      | Listing                                                                           | Listing                                                                           | Listing |
|-------------|-------------|------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------|
|             |             |                  |  |  | UL508A  |
| 32948       | 11          | TS35-L           |                                                                                   | •                                                                                 | •       |
| 32949       | 11          | TS35-L           |                                                                                   | •                                                                                 | •       |
| 32950       | 11          | TS35-L           |                                                                                   | •                                                                                 | •       |
| 32951       | 11          | TS35-L           |                                                                                   | •                                                                                 | •       |
| 32954       | 11          | X-L              |                                                                                   | •                                                                                 | •       |
| 32956       | 11          |                  |                                                                                   | •                                                                                 | •       |
| 32963       | 13          |                  |                                                                                   | •                                                                                 | •       |
| 32964       | 11          |                  |                                                                                   | •                                                                                 | •       |
| 32969       | 11          |                  |                                                                                   | •                                                                                 | •       |
| 32973       | 12          | EEC25-L          |                                                                                   | •                                                                                 | •       |
| 32974       | 12          | EEC80-L          |                                                                                   | •                                                                                 | •       |
| 32975       | 15,16       | 60630.1-L        |                                                                                   | •                                                                                 | •       |
| 32976       | 15,16       | 60250.1-L        |                                                                                   | •                                                                                 | •       |
| 32977       | 15,16       | 60250.1-L        |                                                                                   | •                                                                                 | •       |
| 32980       | 15,16       |                  |                                                                                   |                                                                                   |         |
| 32981       | 15, 16      |                  |                                                                                   |                                                                                   |         |
| 33198       | 2           |                  |                                                                                   |                                                                                   |         |
| 33306       | 19          | JC100            |                                                                                   | •                                                                                 | •       |
| 33307       | 19          | JC200            |                                                                                   | •                                                                                 | •       |
| 33308       | 19          | JC400            |                                                                                   | •                                                                                 | •       |
| 33309       | 14          | JC100B           |                                                                                   | •                                                                                 | •       |
| 33310       | 14          | JC200B           |                                                                                   | •                                                                                 | •       |
| 33311       | 14          | JC400B           |                                                                                   | •                                                                                 | •       |
| 33402       | 2,14        | QCC-Class J 100A | •                                                                                 |                                                                                   | •       |
| 33403       | 2,14        |                  |                                                                                   |                                                                                   |         |
| 33405       | 2,14        | QCC-Class J 100A | •                                                                                 |                                                                                   | •       |
| 33406       | 14          |                  |                                                                                   |                                                                                   |         |
| 33500       | 2           |                  |                                                                                   |                                                                                   |         |
| 33510       | 2           |                  |                                                                                   |                                                                                   |         |
| 33540       | 2           |                  |                                                                                   |                                                                                   |         |
| 33550       | 2           |                  |                                                                                   |                                                                                   |         |
| 33551       | 2           |                  |                                                                                   |                                                                                   |         |
| 33601       | 2           |                  |                                                                                   |                                                                                   |         |
| 35001       | 22          | Z1140-L          |                                                                                   |                                                                                   |         |
| 35004       | 22          |                  |                                                                                   |                                                                                   |         |
| 35005       | 22          |                  |                                                                                   |                                                                                   |         |
| 35006       | 22          |                  |                                                                                   |                                                                                   |         |
| 35007       | 22          |                  |                                                                                   |                                                                                   |         |
| 35008       | 22          | Z1140-L          |                                                                                   |                                                                                   |         |
| 35009       | 22          | Z1140-L          |                                                                                   |                                                                                   |         |
| 35015       | 22          |                  |                                                                                   |                                                                                   |         |
| 35016       | 22          |                  |                                                                                   |                                                                                   |         |
| 35017       | 22          |                  |                                                                                   |                                                                                   |         |
| 78463       | 8           | C12x5            |                                                                                   |                                                                                   |         |

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GERMAN to ENGLISH translation:

1. ALLES MIT... -- everything with ...
2. ...SPANNUNG -- multiple meanings... voltage, excitement and suspense
3. Wöhner -- the surname of our founder and owner -- we're a family business (since 1929)
4. ... when translating the GERMAN ö to ENGLISH it becomes oe -- thus @woehner.com