

The assembly of automated control and distribution panels requires the use of products that are not only safe but also simple and quick to mount and cable.

The Linergy HK pre-assembled busbar system meets all these criteria by incorporating prefabricated components which cater for 3 principal functions:

#### Carrying of electric current

By the pre-assembled 4-pole busbar system **1**, 160 A at 35 °C.

4-pole busbars can be used for 3-phase + Neutral or 3-phase + Common.

The busbars are available in 6 lengths: 344, 452, 560, 668, 992, 1100 mm.

An incoming supply terminal block **2** is located at the extreme left of the busbar.

"Knock-out" partitions allow connection of the power supply from above or below to connectors **3** which are protected by a removable cover **4**.  
Upstream protection of the busbar is shown on page B1/20.

#### Current distribution

Tap-off units **5** (factory assembled) are available in 4 versions:

- 2-pole,
- 3-pole,
- 4-pole (3-phase + Neutral),
- 4-pole (3-phase + Common).

The tap-offs clip onto the busbar with instantaneous mechanical and electrical connection to the busbars.

2 ratings are available: 16 and 32 A.

The tap-off units ensure not only rapid mounting, but also a neat appearance for the power distribution system and complete safety when accessing under live circuit conditions.

#### Component mounting

Component mounting plates with incorporated tap-off allow mounting of and supply of power to components.

They are available in 25 A or 50 A ratings.

These mounting plates clip onto the mounting rail **11**, which also supports the busbar, and at the same time make electrical connection via the incorporated tap-off.

2 types of mounting plate are available:

- single plates **6** (height 105 mm), with bolt-on 35 mm wide  rail **7**, which may be bolted on in one of two positions, allowing height adjustment of 10 mm.
- double plates **8** and **14** (height 190 mm), with two bolt-on, 35 mm wide  rails **9** mounted on 100 mm fixing centres; each rail may be bolted on in one of 4 positions, allowing height adjustment in 10 mm steps. These plates are supplied with connectors **12** to allow wiring between control and protection devices.

Single mounting plates enable the following types of distribution:

- 2-pole (Ph + N) and (Ph + Ph)
- 3-pole,
- 4-pole (3 Ph + N or 3 Ph + common).

Double mounting plates enable the following types of distribution: 2-pole (Ph + N, Ph + Ph), 3-pole or 4-pole (3Ph+N and 3Ph + common).

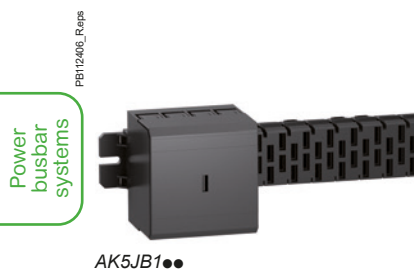
Extension plates **10** can be bolted onto single and double mounting plates to enable mounting of wider components. Using a side stop **15** in conjunction with these extension plates also supports the Linergy HK busbar when used vertically.

A control terminal block **13** comprising a support plate bolted onto the single or double mounting plates and a 10-pole plug-in block, enables connection of the control circuit wires (c.s.a. 1.5 mm² max).

# Linergy BZ, HK Busbar systems

## Linergy HK

### Product references



#### Busbars

The busbars can be screw-mounted onto any type of support. However, if it is to be used in conjunction with component mounting plates incorporating a tap-off, it is essential that it is mounted on the AM1DL201 rail.

When mounting tap-offs, the rated operational current of the busbar should be taken into account: 160 A at 35 °C.

| Number of conductors | Number of tap-offs at 18 mm intervals | Length<br>mm | Suitable for mounting in enclosure width<br>mm | Reference | Weight<br>kg |
|----------------------|---------------------------------------|--------------|------------------------------------------------|-----------|--------------|
| 4 <sup>(1)</sup>     | 12                                    | 344          | 600                                            | AK5JB143  | 0.700        |
|                      | 18                                    | 452          | 800                                            | AK5JB144  | 0.900        |
|                      | 24                                    | 560          | 800                                            | AK5JB145  | 1.100        |
|                      | 30                                    | 668          | 800                                            | AK5JB146  | 1.300        |
|                      | 48                                    | 992          | 1200                                           | AK5JB149  | 1.900        |
|                      | 54                                    | 1100         | 1200                                           | AK5JB1410 | 2.100        |

#### Removable power sockets

| Use                    | Number of points used on the busbar system |       | Thermal current<br>A | Cable lengths<br>mm | Min. order qty   | Unit reference |
|------------------------|--------------------------------------------|-------|----------------------|---------------------|------------------|----------------|
|                        | Width                                      |       |                      |                     |                  |                |
| Single-phase + Neutral | 1                                          | 9 mm  | 16                   | 200                 | 6 <sup>(2)</sup> | AK5PC12        |
|                        |                                            |       | 32                   | 1000                | 6 <sup>(2)</sup> | AK5PC32L       |
| 2-phase                | 1                                          |       | 16                   | 200                 | 6 <sup>(3)</sup> | AK5PC12PH      |
|                        |                                            |       | 32                   | 1000                | 6 <sup>(3)</sup> | AK5PC32LPH     |
| 3-phase                | 2                                          | 18 mm | 16                   | 200                 | 6                | AK5PC13        |
|                        |                                            |       | 32                   | 250                 | 6                | AK5PC33        |
|                        |                                            |       |                      | 1000                | 6                | AK5PC33L       |
| 3-phase + Neutral      | 2                                          |       | 16                   | 200                 | 6                | AK5PC14        |
|                        |                                            |       | 32                   | 250                 | 6                | AK5PC34        |
|                        |                                            |       |                      | 1000                | 6                | AK5PC34L       |
| 3-phase + common       | 2                                          |       | 16                   | 200                 | 6                | AK5PC131       |
|                        |                                            |       | 10 (common)          |                     |                  |                |
|                        |                                            |       | 32                   | 250                 | 6                | AK5PC331       |
|                        |                                            |       | 10 (common)          |                     |                  |                |

#### Accessories

| Description | Maximum no. of connections | C.s.a. mm <sup>2</sup> | Sold in lots of | Unit reference |
|-------------|----------------------------|------------------------|-----------------|----------------|
| Cable guide | 4                          | 2.5 or 4               | 20              | AK5GF1         |

<sup>(1)</sup> 4-pole: 3-phase + Neutral or 3-phase + Common.

<sup>(2)</sup> Total of 6 sockets supplied: 2 sockets (N + L1), 2 sockets (N + L2). 2 sockets (N + L3).

<sup>(3)</sup> Total of 6 sockets supplied: 2 sockets (L1 + L2), 2 sockets (L1 + L3). 2 sockets (L2 + L3).

<sup>(4)</sup> Cut and drill to suit use.

