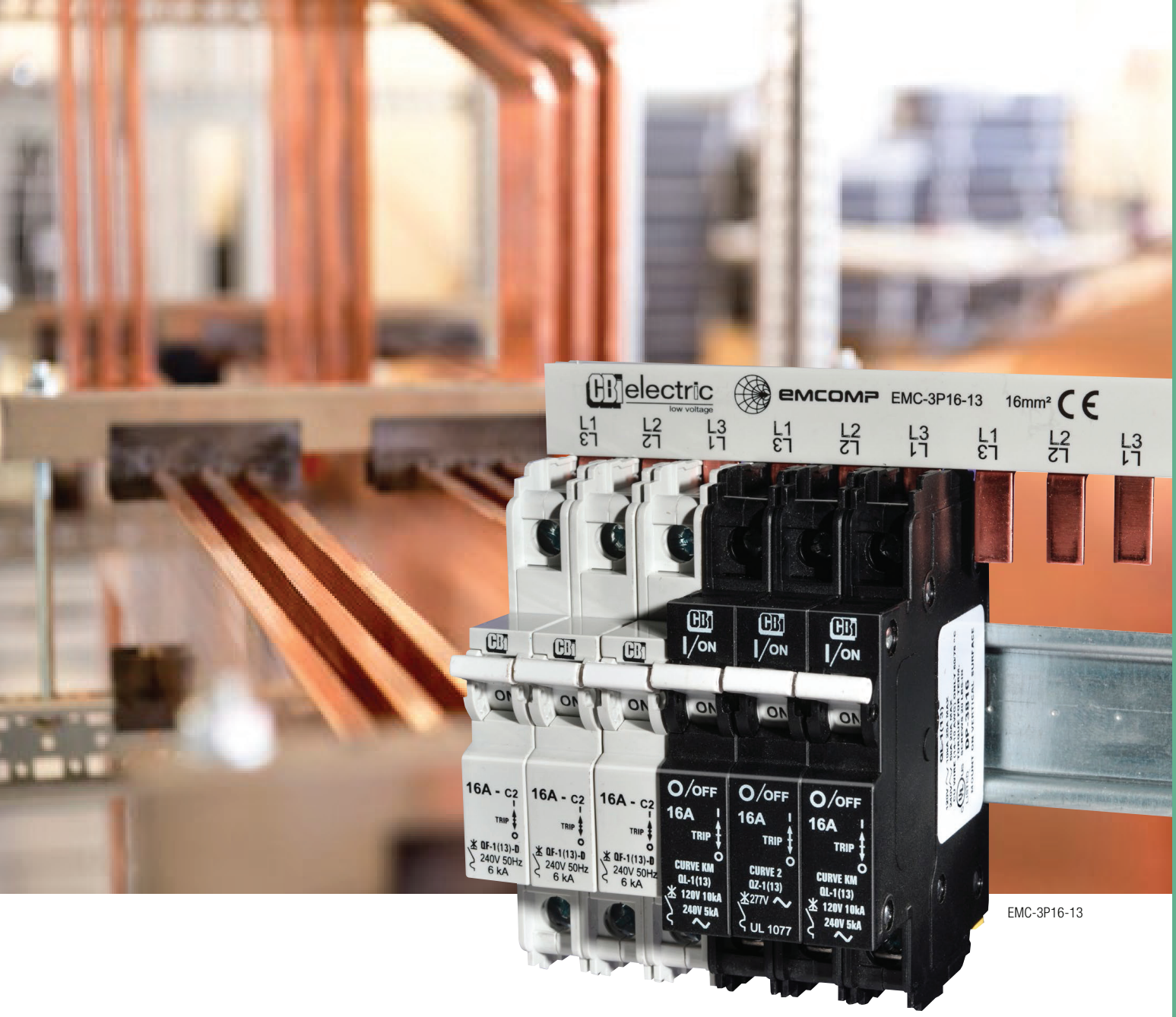



EMC-3P16-13

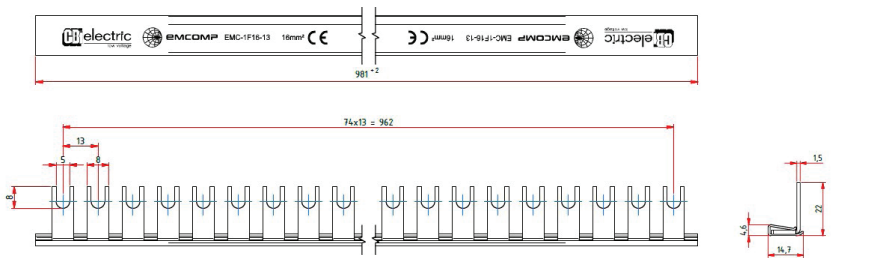
# Busbars for CBI 13 mm Q-range MCB

**Emcomp's insulated busbars** are especially designed for usage together with CBI Q-range 13 mm MCBs. The busbars are available in various configurations for 1-3 phases, with or without auxiliary switches. Emcomp's Busbars for 13 mm CBI Q are available in both straight and 90degree angled versions, with pin as well as fork connection.

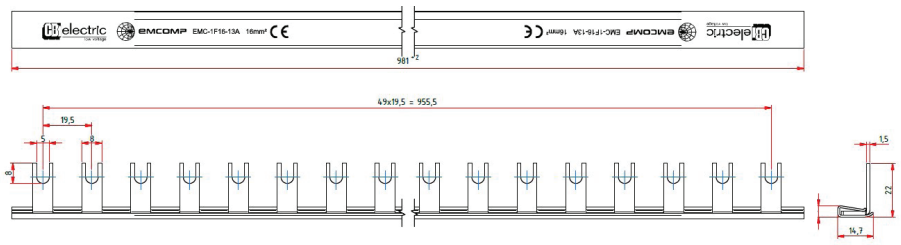
Usage of Emcomp's Busbars for 13 mm CBI Q saves time during assembly as well as gives more even distribution of the current which increase safety as the risk for imbalanced loads in the system decreases.

Emcomp's Busbars for 13 mm CBI Q are available as bulk stock or ready-made for the respective application. Bulk stock is cut and insulated with end caps. Ready-made busbars are ideal for production volume applications where secondary operations should be kept to an absolute minimum. Application specific busbars can be supplied with feed-in terminals, insulation devices or application specific wire harnesses.

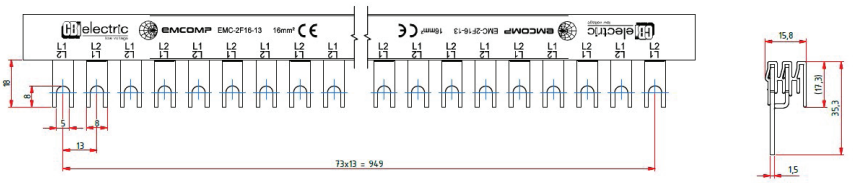
| Description | Data | Dimensions |
|---|---|---|
| Phase | | |
| Type | Fork | |
| Shape | Bended 90° | |
| Connection points | 75 | |
| Cross section mm² | 16 | |
| Modular width mm | 13 | |
| Description | 1p. MCB | |
| **Item No** | **EMC-1F16-13** | |



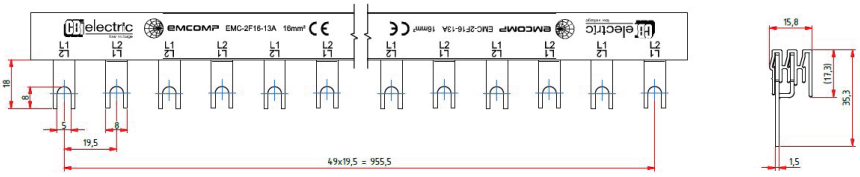

| Description | Data | Dimensions |
|---|---|---|
| Phase | 1 | |
| Type | Fork | |
| Shape | Bended 90° | |
| Connection points | 50 | |
| Cross section mm² | 16 | |
| Modular width mm | 19,5 | |
| Description | 1p. MCB + Aux | |
| **Item No** | **EMC-1F16-13A** | |

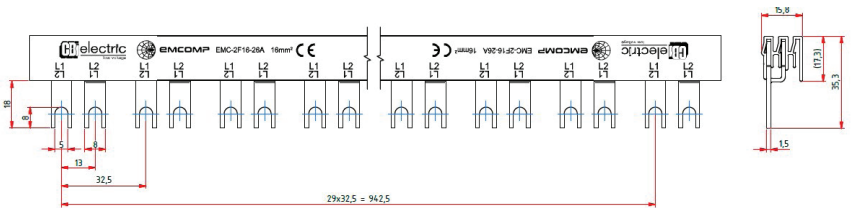


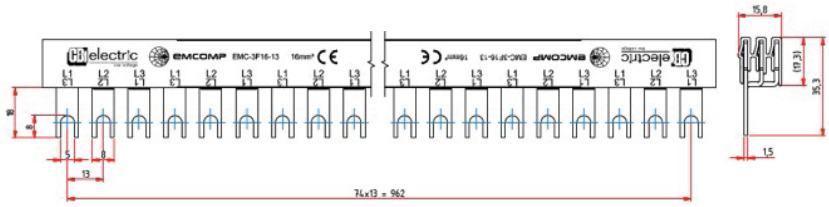

| Description | Data | Dimensions |
|---|---|---|
| Phase | 2 | |
| Type | Fork | |
| Shape | Straight | |
| Connection points | 74 | |
| Cross section mm² | 16 | |
| Modular width mm | 13 | |
| Description | 2p. MCB | |
| **Item No** | **EMC-2F16-13** | |

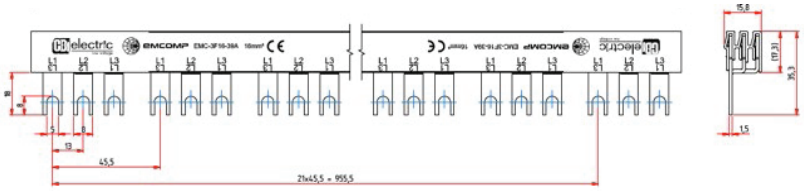


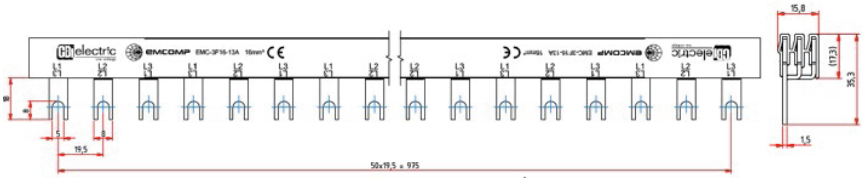

| Description | Data | Dimensions |
|---|---|---|
| Phase | 2 | |
| Type | Fork | |
| Shape | Straight | |
| Connection points | 50 | |
| Cross section mm² | 16 | |
| Modular width mm | 19,5 | |
| Description | 2p. (1p.MCB+Aux) | |
| **Item No** | **EMC-2F16-13A** | |

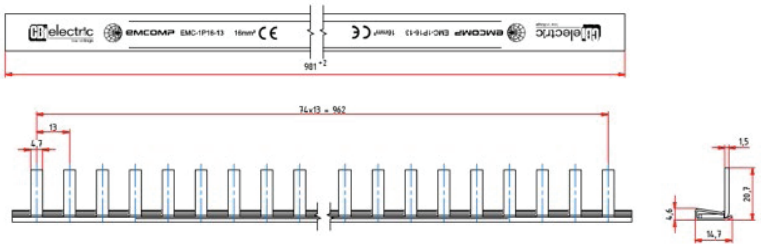


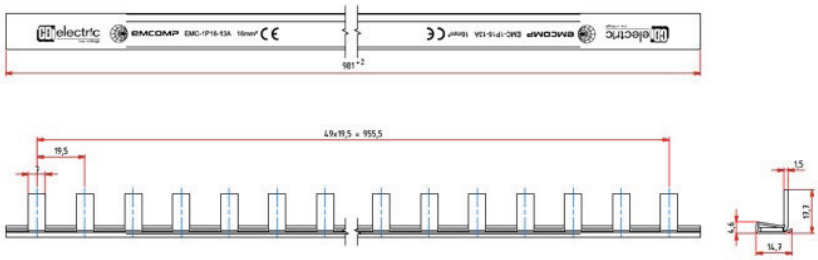
| Description | Data | Dimensions |
|---|---|---|
| Phase | 2 |  |
| Type | Fork | |
| Shape | Straight | |
| Connection points | 60 | |
| Cross section mm² | 16 | |
| Modular width mm | 2x13/6,5 | |
| Description | 2p. MCB + Aux | |
| **Item No** | **EMC-2F16-26A** | |

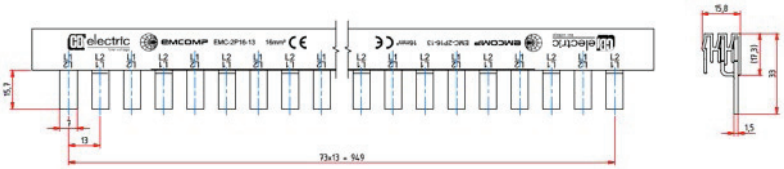
| Description | Data | Dimensions |
|---|---|---|
| Phase | 3 |  |
| Type | Fork | |
| Shape | Straight | |
| Connection points | 75 | |
| Cross section mm² | 16 | |
| Modular width mm | 13 | |
| Description | 3p. MCB | |
| **Item No** | **EMC-3F16-13** | |

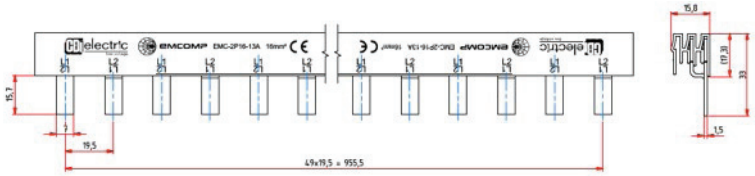
| Description | Data | Dimensions |
|---|---|---|
| Phase | 3 |  |
| Type | Fork | |
| Shape | Straight | |
| Connection points | 66 | |
| Cross section mm² | 16 | |
| Modular width mm | 3x13/6,5 | |
| Description | 3p. MCB+Aux | |
| **Item No** | **EMC-3F16-39A** | |

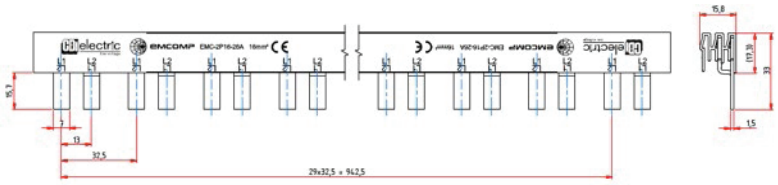
| Description | Data | Dimensions |
|---|---|---|
| Phase | 3 |  |
| Type | Fork | |
| Shape | Straight | |
| Connection points | 51 | |
| Cross section mm² | 16 | |
| Modular width mm | 19,5 | |
| Description | 3p. (1p.MCB+Aux) | |
| **Item No** | **EMC-3F16-13A** | |

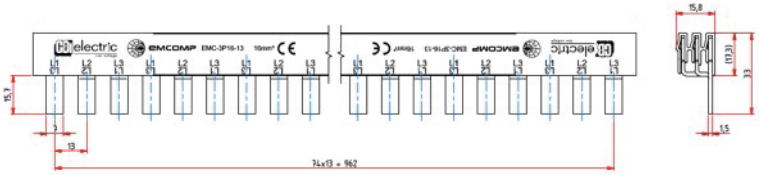
| Description | Data | Dimensions |
|---|---|---|
| Phase | 1 |  |
| Type | Pin | |
| Shape | Bended 90° | |
| Connection points | 75 | |
| Cross section mm² | 16 | |
| Modular width mm | 13 | |
| Description | 1p. MCB | |
| **Item No** | **EMC-1P16-13** | |

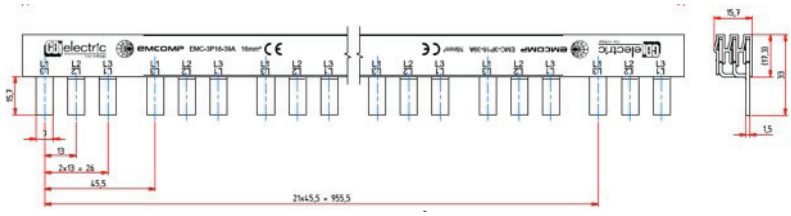
| Description | Data | Dimensions |
|---|---|---|
| Phase | 1 |  |
| Type | Pin | |
| Shape | Bended 90° | |
| Connection points | 50 | |
| Cross section mm² | 16 | |
| Modular width mm | 19,5 | |
| Description | 1p. MCB+Aux | |
| **Item No** | **EMC-1P16-13A** | |

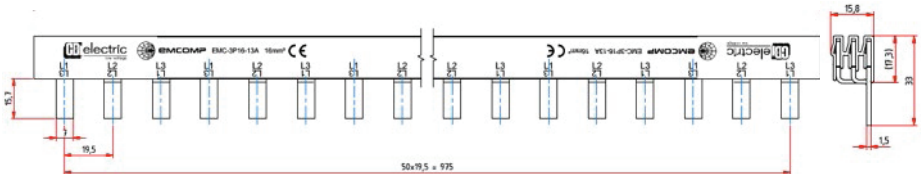
| Description | Data | Dimensions |
|---|---|---|
| Phase | 2 |  |
| Type | Pin | |
| Shape | Straight | |
| Connection points | 74 | |
| Cross section mm² | 16 | |
| Modular width mm | 13 | |
| Description | 2p. MCB | |
| **Item No** | **EMC-2P16-13** | |

| Description | Data | Dimensions |
|---|---|---|
| Phase | 2 |  |
| Type | Pin | |
| Shape | Straight | |
| Connection points | 50 | |
| Cross section mm² | 16 | |
| Modular width mm | 19,5 | |
| Description | 2p.(1p.MCB+Aux) | |
| **Item No** | **EMC-2P16-13A** | |

| Description | Data | Dimensions |
|---|---|---|
| Phase | 2 |  |
| Type | Pin | |
| Shape | Straight | |
| Connection points | 60 | |
| Cross section mm² | 16 | |
| Modular width mm | 2x13/6,5 | |
| Description | 2p. MCB+Aux | |
| **Item No** | **EMC-2P16-26A** | |

| Description | Data | Dimensions |
|---|---|---|
| Phase | 3 |  |
| Type | Pin | |
| Shape | Straight | |
| Connection points | 75 | |
| Cross section mm² | 16 | |
| Modular width mm | 13 | |
| Description | 3p. MCB | |
| **Item No** | **EMC-3P16-13** | |

| Description | Data | Dimensions |
|---|---|---|
| Phase | 3 |  |
| Type | Pin | |
| Shape | Straight | |
| Connection points | 66 | |
| Cross section mm² | 16 | |
| Modular width mm | 3x13/6,5 | |
| Description | 3p. MCB+Aux | |
| **Item No** | **EMC-3P16-39A** | |

| Description | Data | Dimensions |
|---|---|---|
| Phase | 3 |  |
| Type | Pin | |
| Shape | Straight | |
| Connection points | 51 | |
| Cross section mm² | 16 | |
| Modular width mm | 19,5 | |
| Description | 3p. (1p. MCB+Aux) | |
| **Item No** | **EMC-3P16-13A** | |

| TECHNICAL DATA | | |
|---|---|---|
| **Description** | **Data** | |
| Busbar | copper | |
| Insulation | PC-ABS, moulded | |
| | PC-ABS, extruded | grey RAL 7035 |
| End cover | PC-ABS, moulded | |

| GENERAL DATA | | |
|---|---|---|
| **Description** | **Data** | |
| Heat deflection temp | | PC-ABS 80 UL94V0 |
| Glow Wire Flammability Index | PC-ABS, extruded | 960°C/3,2mm ; 850°C/1mm |
| | PC-ABS, moulded | 960°C/1mm |
| Comparative tracking index | PC-ABS, extruded | 600V |
| | PC-ABS, moulded | 300V |
| Standards | EN 60947-1:2007 / IEC 60947-1:2007 | |
| Climate stability | acc to DIN EN 60068 | |
| Insulations coordination | overvoltage category III | |
| Pollution Degree | 2 | |

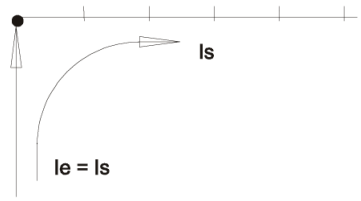
| ELECTRICAL DATA | |
|---|---|
| **Description** | **Data** |
| Impulse voltage strenght | 4,5 kV |
| Min. air distance | 5,5 mm |
| Min. creeping distance | 5 mm |
| Max. operating voltage | 690 V AC |
| Protection class | IP20 |
| Short circuit rating | ICC 15kA - NH3 250A gC500V JM |

| Capacity at 35°C ambient temperature depending of feeding point | | |
|---|---|---|
| **Description** | **Data** | |
| Connection cross current mm2 | 10 mm2 | 16 mm2 |
| Max. current Is/Phase | 63A | 80A |

## Approval and marking

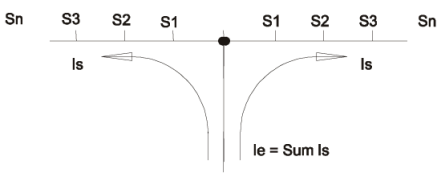
All busbars are CE conform and correspond to the RoHS of the EU.

## Feeding




*Feeding at beginning or end of bar.*

## Other feedings




*Other feedings. In case of center-feeding, please note that the sum of junction currents S1.. Sn per railbranch may not be bigger than the above named max. busbar current Is/Phase.*

## Cut to length and pre-assembled with end caps

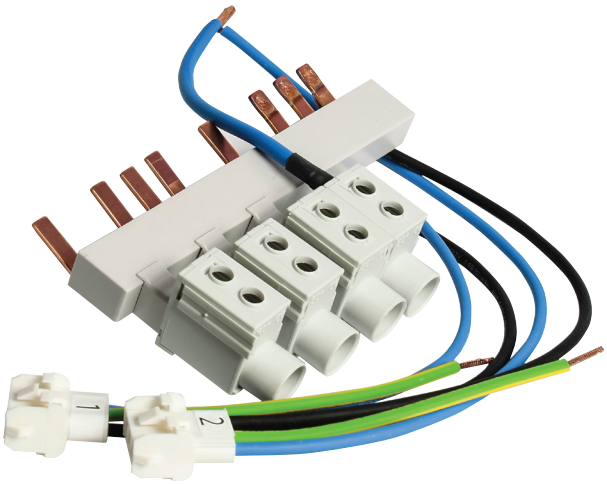
For volume applications it is an economical solution to order the busbars cut to length as it saves valuable time in installation.
All of our standard busbars can be supplied cut to length complete with pre-assembled end caps by adding the requested number of connections as a suffix, se example below.

*EMC-1F16-13-4, EMC-1F16-13-3 and EMC-1F16-13-2*

*3-p Busbar endcap (P/N A1) and 1-p Busbarendcap (P/N A11)*

## Customized busbar assembly

Many of our clients are manufacturing companies who use our breakers in an OEM environment. For volume production, the busbar system can be optimized for your application. Examples of customization could be welded-in customized wire harnesses, special circuit configurations on the busbar, pre-assembled feeder terminals and your own marking design. This type of customized busbar systems save time and money in installation and enhance the performance of your application. Please contact us for any further information

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**OUR APPLICATION AREAS**

**Contact us for more information**