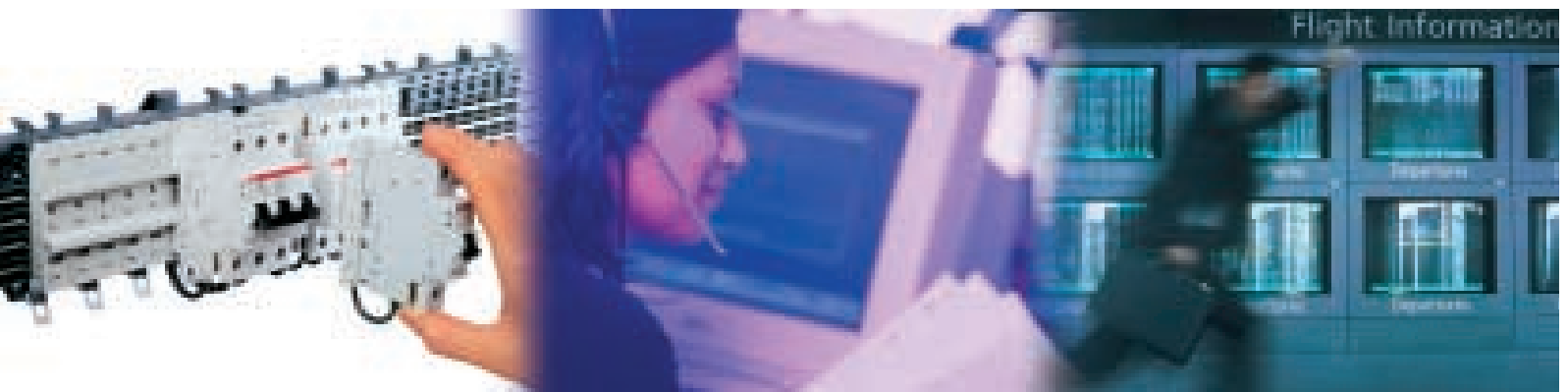


# Bus-bar System

***smisline***

Technical system for  
energy distribution



**ABB**

## **smissline-S Bus-bar System:** **touch proof, compact and versatile**

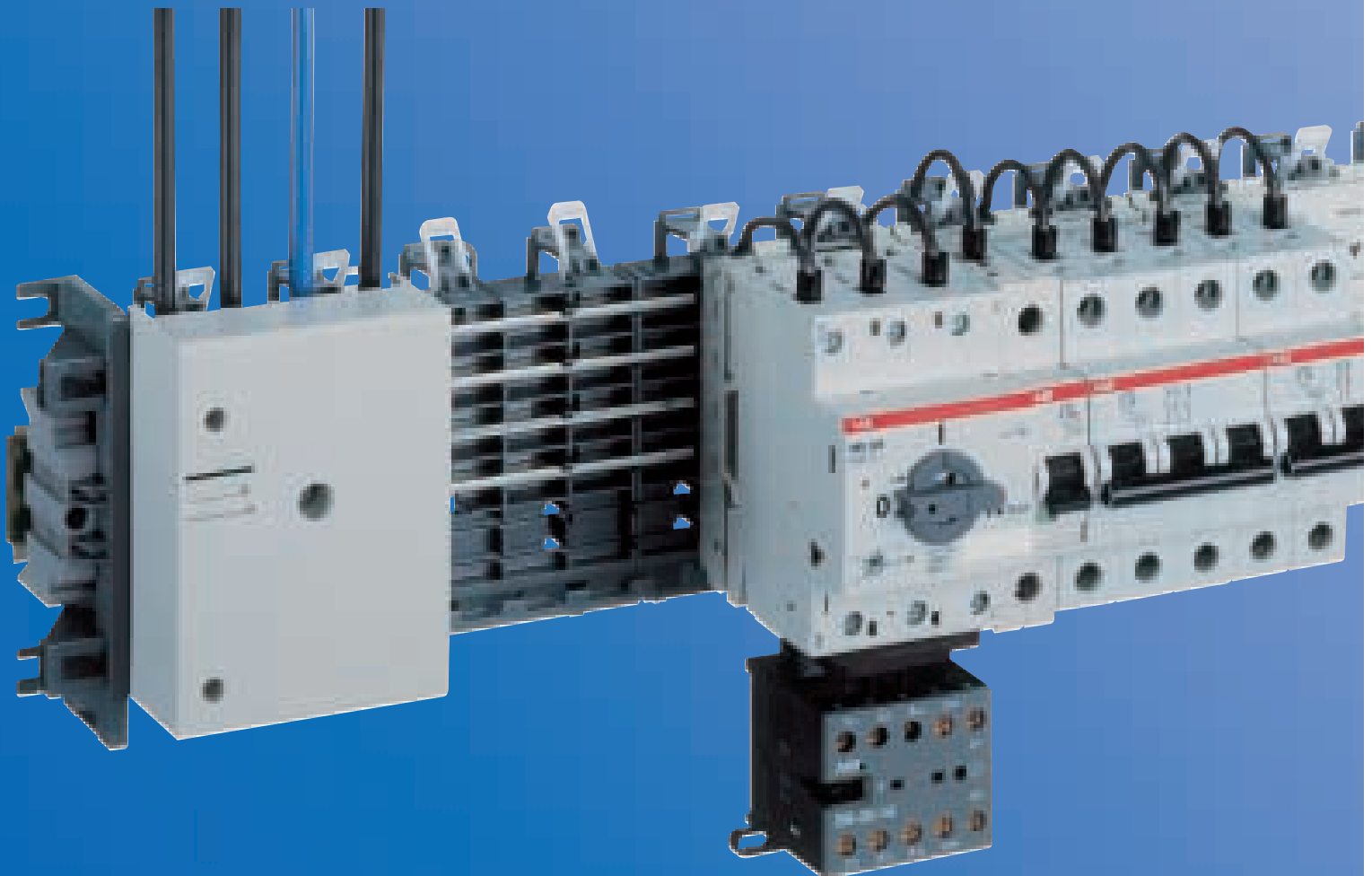
The smissline Bus-bar System offers the efficient, flexible and rapid mounting of components. The socket bases can be combined in any order. The bus-bars are fitted to the 6- and 8-way modular sockets (and additional sockets) and according to requirements. Therefore on the socket base you have the option to insert bus-bars for L1, L2, L3 and N.

By the use of adapters any modular device

with the same mounting height can be mechanically and electrically connected to the bus-bar system. The supply to the bus-bars is normally via an Incoming Terminal Block (max.150A) or an Incoming Terminal Component. Another possibility is to utilise a protective device. This allows both feeding and protection of the bus-bar system simultaneously. For example over voltage protection or residual current protection of the system or part thereof can be achieved. If required galvanic isolation of the system can be achieved by using a bus-bar insulator between sections.

### **Advantages:**

- **Fitting of any modular device with the same mounting height**
- **Components interchangeable at any time**
- **Compact energy distribution – up to max. 150A**
- **Full scope for the future**
- **Completely touch proof**

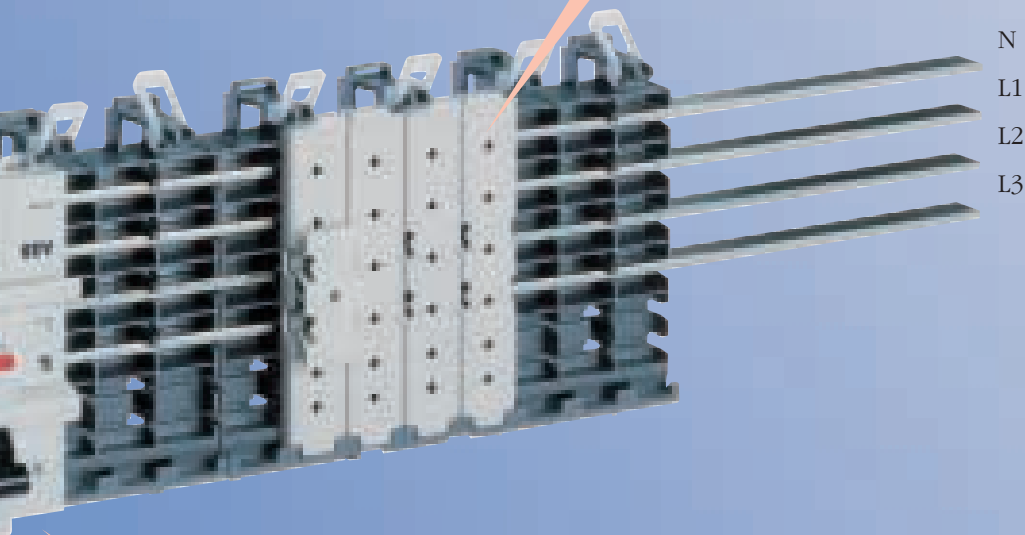


Adapters for one- and multiple pole devices up to max. 60A.



**UL**  
C **US**  
File E 222110  
approved

Bus-bar covers enable a complete touch proof system.



Socket bases allow the bus-bars to be individually inserted as required.

The trick with the click – components are placed by plug in with an adapter

# **smissline-S** Bus-bar System

## Versatile possibilities in a small space

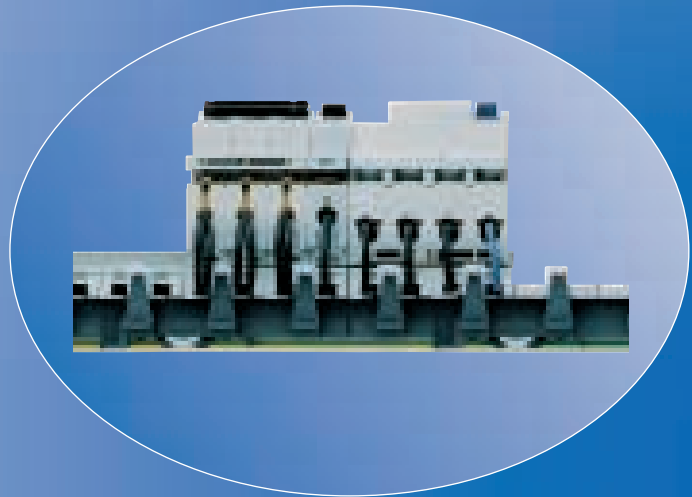
Power distribution should offer you the flexibility for tomorrow. These conditions do justice to the modular Bus-bar System, smissline. Easy maintenance and system extension are given with the socket device adapters. The adapters are easily and securely plugged onto the socket base. The plug-in technique

has been proven for years and is in use in numerous environments. Through the adapter technology many modular devices of different pole sizes can be integrated into the system, allowing almost unlimited possibilities as a result.

### Compact

Space saving distribution is possible due to the compact construction, which is so important in modern buildings today. This also in view of expensive space allocation for distribution boards of a building.

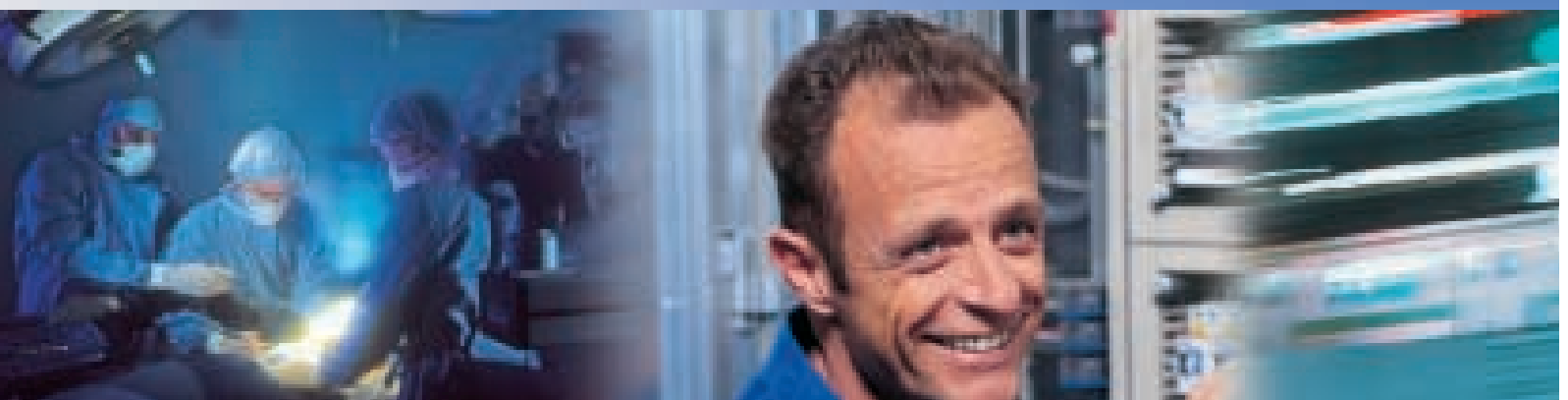
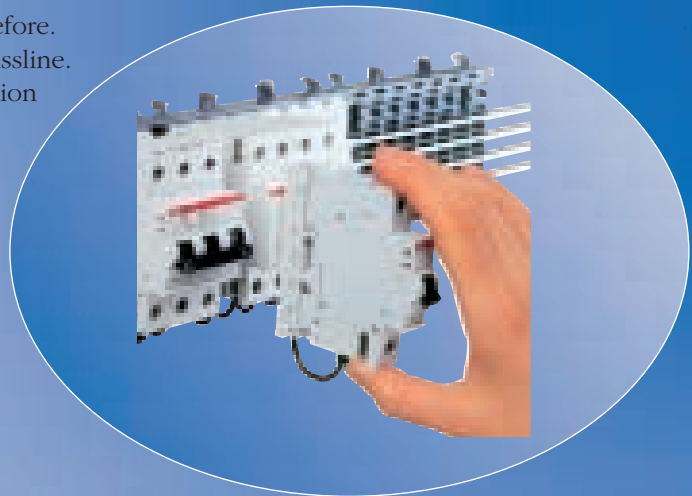
Any modular devices of same height can be integrated into the Bus-bar System.



### Total flexibility

Today, flexibility is more important than ever before. That's why we've made it the key benefit of smissline. The simple, clean design and modular construction enables you to expand or modify your system easily at any time. What's more, you can position the devices exactly where you want them and balance loads across the phases by adjusting the plug connector to the position you want.

The adapter can easily and securely be plugged onto the socket base. Ease of handling is assured due to a mechanical guide.



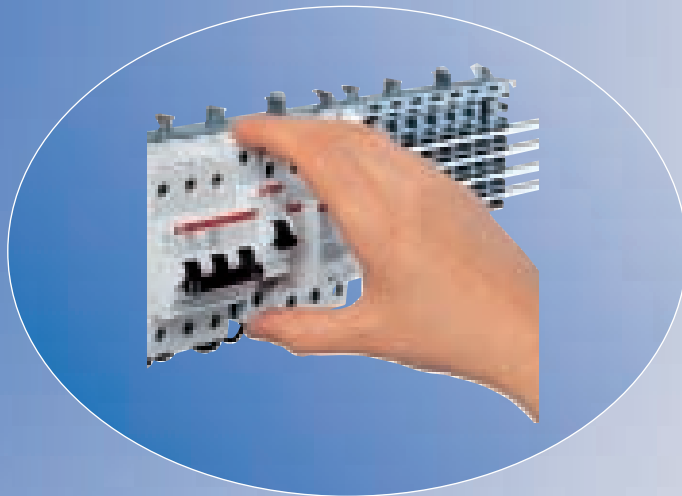
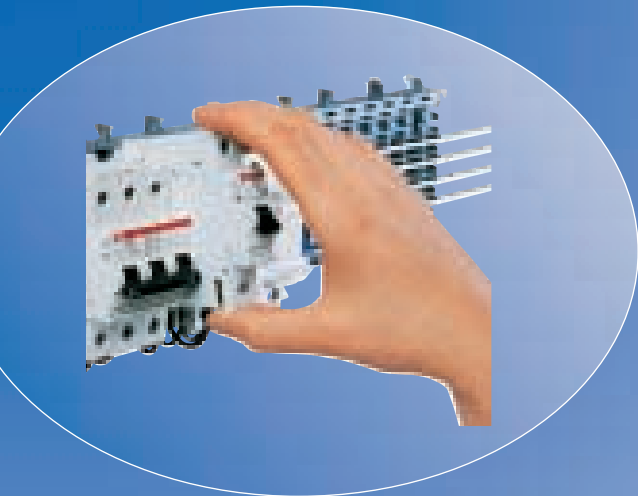
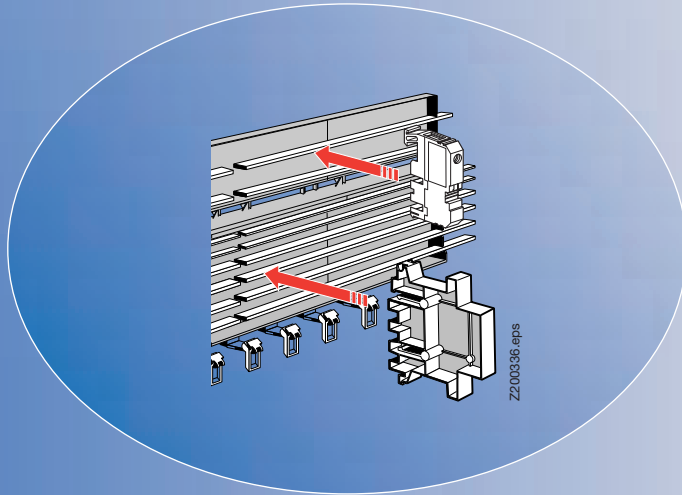
## Save time, save money

As you know, time is money. That's why you want products that are fast and easy to install. Thanks to its fast and easily connected saves you money. And with its modular design, you can even make last minute adjustments quickly and conveniently. You easily combine the sockets and busbars to meet your specific need. Simply plug-in – and that's it.



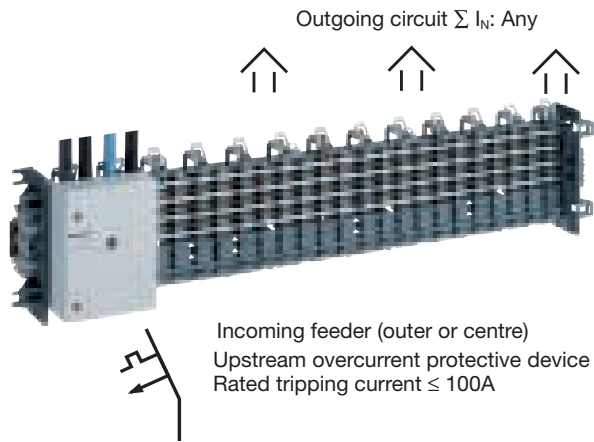
## Modular

Due to bus-bar insulators the Bus-bar System can be divided into different segments. For example this enables them to be split in to RCD protected groups. Thus the bus-bar system can also be fed via a protective device.

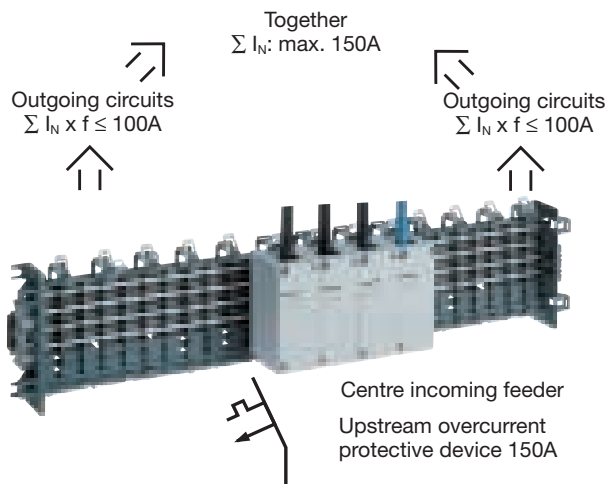
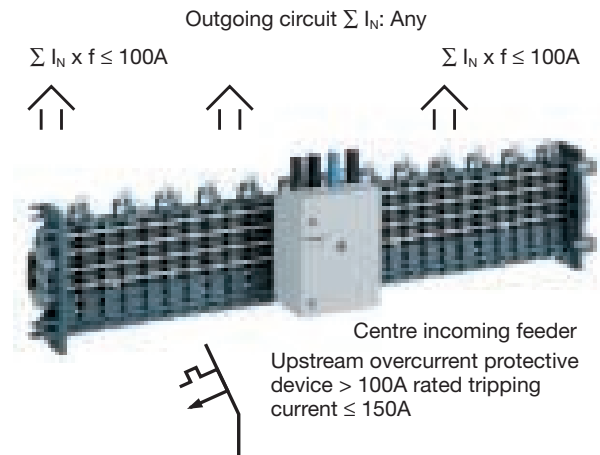


# Power Supply Variants / Power Supply Possibilities

## Upstream overvoltage arrester maximum 100A



## Upstream overcurrent arrester maximum 150A



The sum of all the rated tripping currents of all connected overcurrent arresters multiplied by the simultaneity factor «f» in the following table must not be greater than 150A. In addition, this value must not exceed 100A on either side of the feeder block. If power circuits are connected with a specified load current (e.g. motors), the simultaneity factor must not be used for these circuits. Power for 150A rated current can only be supplied by means of feeder elements and not by the feeder block.

## Direct power supply through protective devices

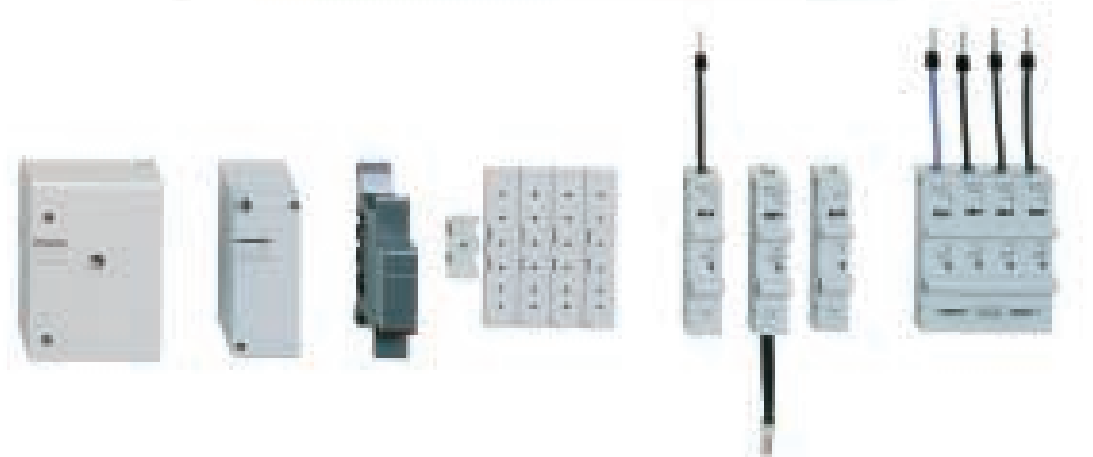
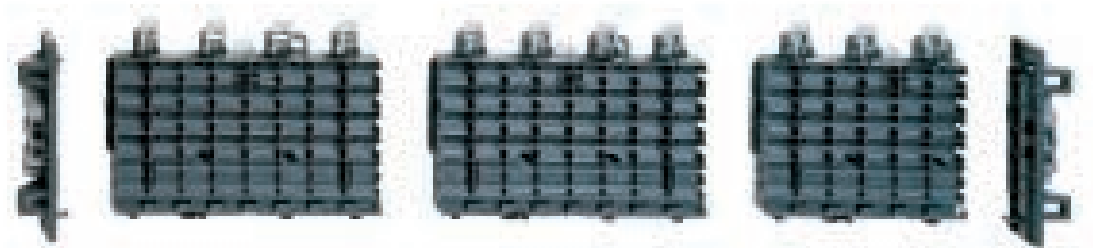
The feeder cables are connected directly to the terminals of the protective device. It should therefore be noted, that the sum of all down stream connected devices do not exceed the rated current of the adapter fitted to the up stream protective device. For the power supply via a protection device there are two different power supplies in existence:

1. Power supply on the same side as the wire of the adapter.

For the best possible use of the rated current of the adapters fitted to the protective device it is advantageous to connect the supply cable to the highest rated current of the adapter e.g. protection device.

2. Power supply on the opposite side of the wire of the adapter.

The connection of the supply result e.g. over an RCD on the opposite side of the bus-bar connector wire. With this supply version the bus-bars and consequently all devices are earth fault protected. If additional earth fault protected groups are planned, then the bus-bars should be separated by using the dark grey bus-bars insulators. The standard of protection of the RCD to down stream connected devices is to be noted.



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