

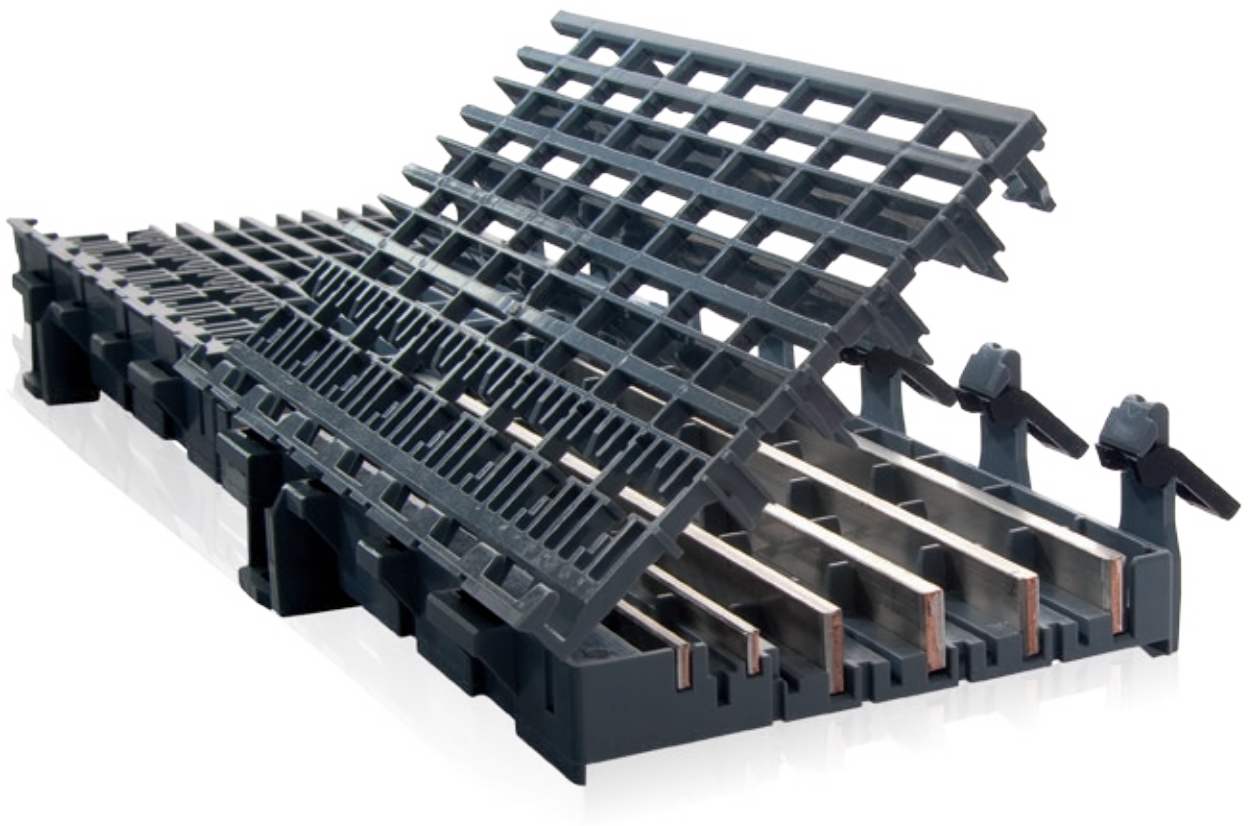
SMISLINE TP – Touch proof system

Power and Safety

Power behind bars

The world's safest socket system

Small cause, large effect: as the world's first pluggable socket system, SMISSLINE TP ensures that load-free devices and components can be snapped on and off under voltage without the need for additional personal protective equipment to guard against electrical hazards. That opens up completely new prospects for you when it comes to installation, operation and flexibility.



Efficiency you can touch

Plug in components during ongoing operation

Even safer: Protection against electrical hazards

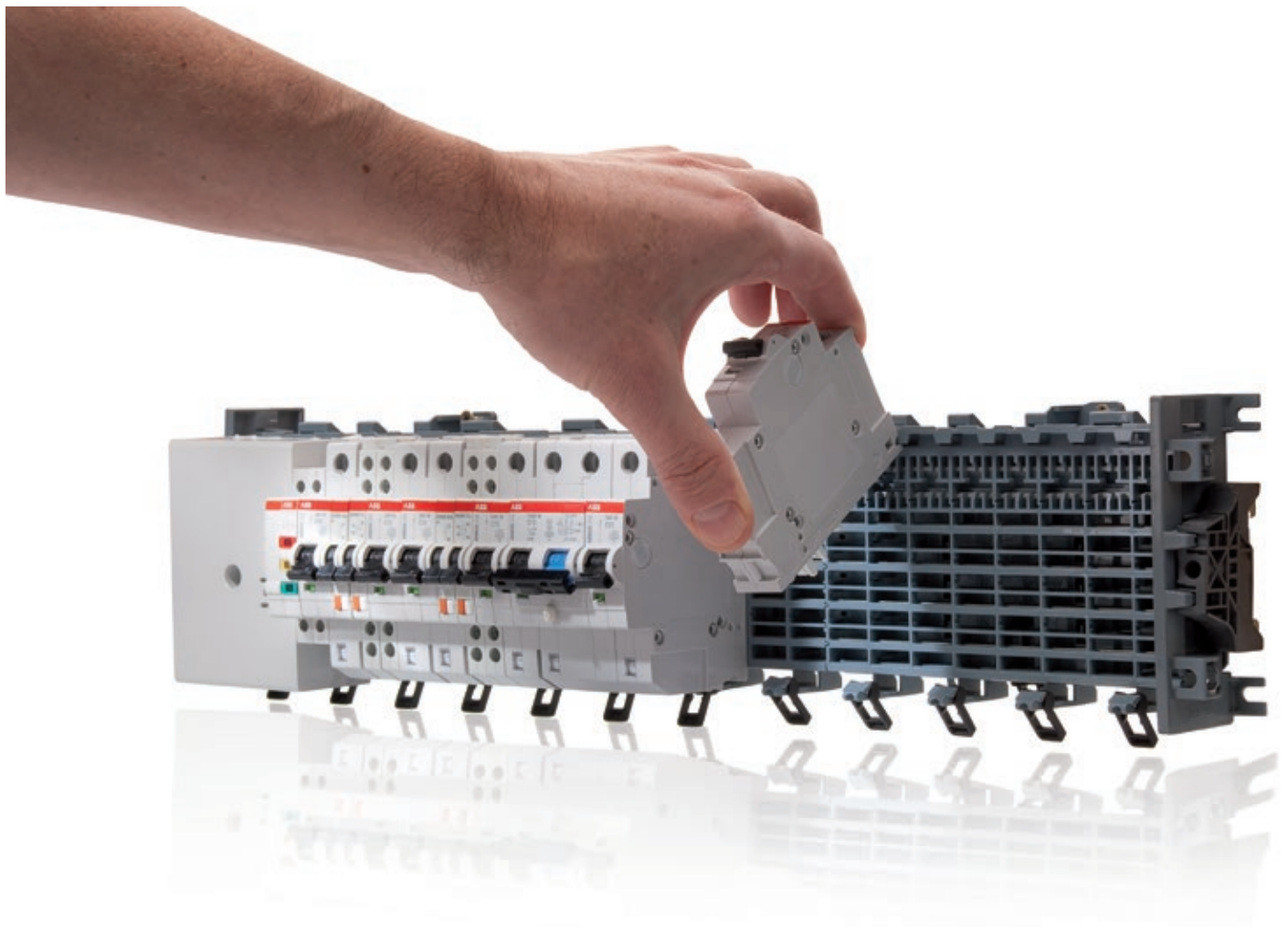
We have upgraded our unique SMISLINE socket system even further through the addition of a pioneering innovation. With the new SMISLINE TP system, components can now be plugged in or unplugged load-free without any risk from electrical current running through the body.

The SMISLINE TP pluggable socket system is completely finger-safe (IP2XB) – when devices are plugged in and unplugged, the system is always touch-proof. This means that SMISLINE TP prevents any danger to personnel from switching arcs or accidental arcing.

Even more flexible: make additions and changes during ongoing operation

Pluggable devices can be added and changed quickly, safely and simply during ongoing operation. And this can be done without any need for personal protective equipment.

This means that you benefit from more flexibility, savings on installation and maintenance – and improved safety. SMISLINE TP provides greater availability and operating safety than conventional systems.



Absolutely safe without protective equipment

The SMISSLINE principle taken further

The SMISSLINE system offers unique possibilities in the area of electrical protective equipment. People have been successfully making use of the opportunities it offers for safe, flexible, rapid installation for years, and its functionality is unsurpassed. With SMISSLINE TP, we are giving this system an additional, powerful protective component – and the existing advantages are becoming even clearer.

The ingenious Click system

Using the SMISSLINE system's unique SMISS CLICK function, five different protective devices can easily be plugged into one pluggable socket system with integrated busbars. In this way, the SMISSLINE system allows the uncomplicated, modular, flexible distribution of power up to a rated current of 250 A. Plugging in the devices quickly and without problems is essential for time-saving, cost-effective planning and execution.

SMISSLINE TP: The successful system is now finger-safe

With SMISSLINE TP, fitters no longer require personal protective equipment, and so both the fitting and the operation/expansion of the installation can now be carried out more safely, faster and thus more efficiently. This is certified by the German Berufsgenossenschaft and Electrosuisse (for other countries please follow to the national regulations and standards).



The RANGE:

- Miniature circuit-breaker 1-, 2-, 3- and 4-pole
- Residual-current circuit-breaker 2- and 4-pole
- Combined RCCB-MCB 2- and 4-pole
- Surge arrester type 2
- Switch disconnecter
- Motor protection switch
- Busbar system, contact rails max. 125 A; incoming system with max. 250 A
- Wide range of accessories

SMISSLINE TP at a glance:

- Safe:** load-free plugging in and unplugging possible live
- Flexible:** rapid replacement, easy expansion, mixed-pole layout possible
- Economical:** saves time and space thanks to the plug-in technology



Saves time in the distribution cabinet

Saves costs during its working life

An electrical system must meet the toughest requirements for planning, design and maintenance throughout its entire life cycle. It often becomes necessary for the system to be extended or modified whilst it is live. Working on live systems is basically possible, but in practice this involves a considerable number of (safety) measures.

Save costs and stay safe

The new finger-safe SMISSLINE TP system makes working on live systems much easier and really speeds things up compared with the conventional DIN system. Devices can be plugged in directly and without the need for protective equipment; the input wiring has been done already.

This pluggable socket system has been designed so that changes or additions to the system can be carried out during ongoing operation. Because in many systems or buildings, it is extremely problematic to interrupt the power supply in order to work on the system.

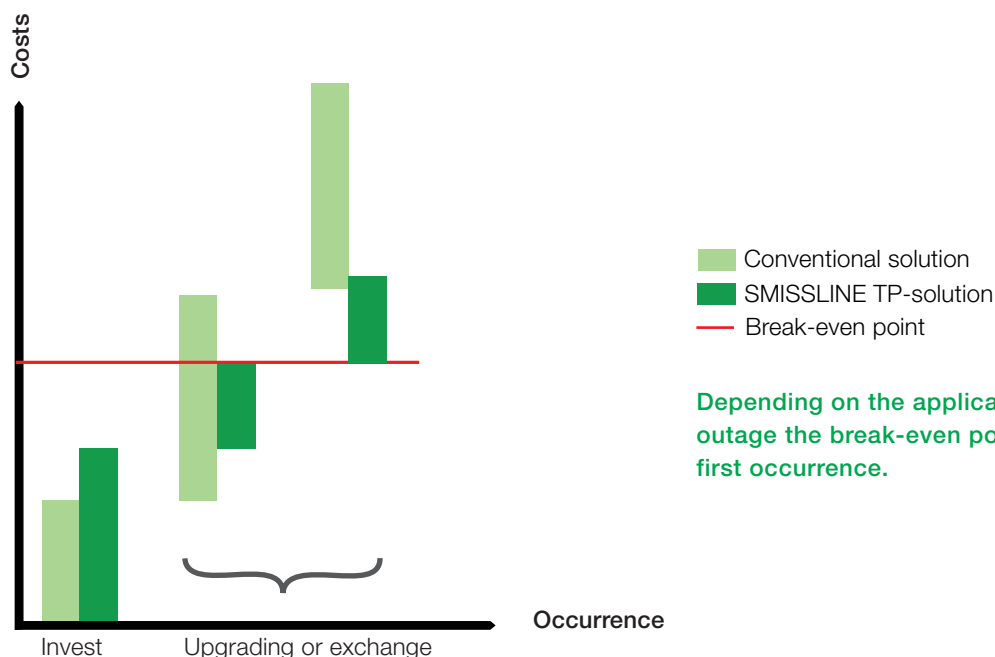
The effect? With the new SMISSLINE TP system, you can decisively reduce the costs of a system throughout its entire lifecycle by ensuring maximum availability whilst considerably improving the protection of your personnel at the same time.

Reduced assembly time – increased availability and flexibility

With SMISSLINE TP, long-term planning is now possible without problems even without a precise knowledge of the final system, and consumers are easily reallocated.

With this new pluggable socket system, changes can be made very easily to switchgear cabinet installations directly on site – without any additional costs, since SMISSLINE TP is automatically input wired via the busbars.

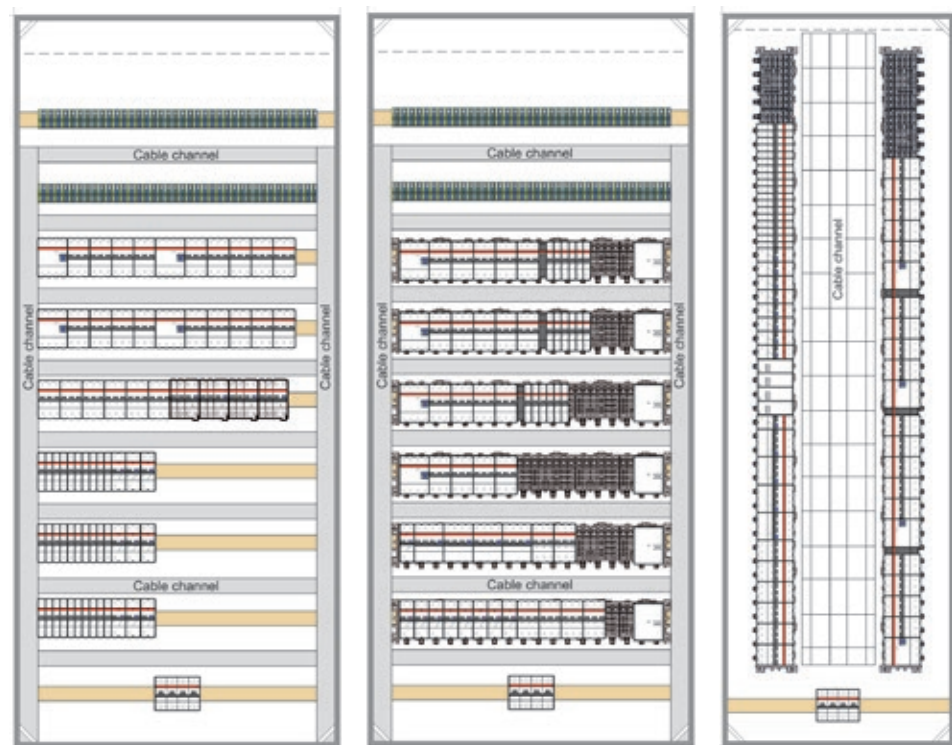
Break-even point quickly reached



Depending on the application and the individual costs per outage the break-even point is already reached upon the first occurrence.

Time and space savings for fitting and installation

	Conventional design	SMISLINE TP horizontal	SMISLINE TP vertical
Installing cabinet	2.5 h	2.5 h	2.5 h
Device fitting and cabling	6.8 h	3.0 h	2.5 h
Wiring to output terminals	5.5 h	5.5 h	3.0 h
Total	14.8 h	11.0 h	8.0 h
Time saving	--	25 %	45 %
Space saving	--	--	20 %



Conventional fitting

Installation requires extensive connection of the devices to the output terminals. The time required for wiring here is the longest, in contrast to the SMISLINE TP.

SMISLINE TP horizontal

The input wiring is already integrated in the pluggable socket system. In the switchgear cabinet, this reduces the wiring requirement, and the cabinet is therefore much clearer and tidier.

SMISLINE TP vertical

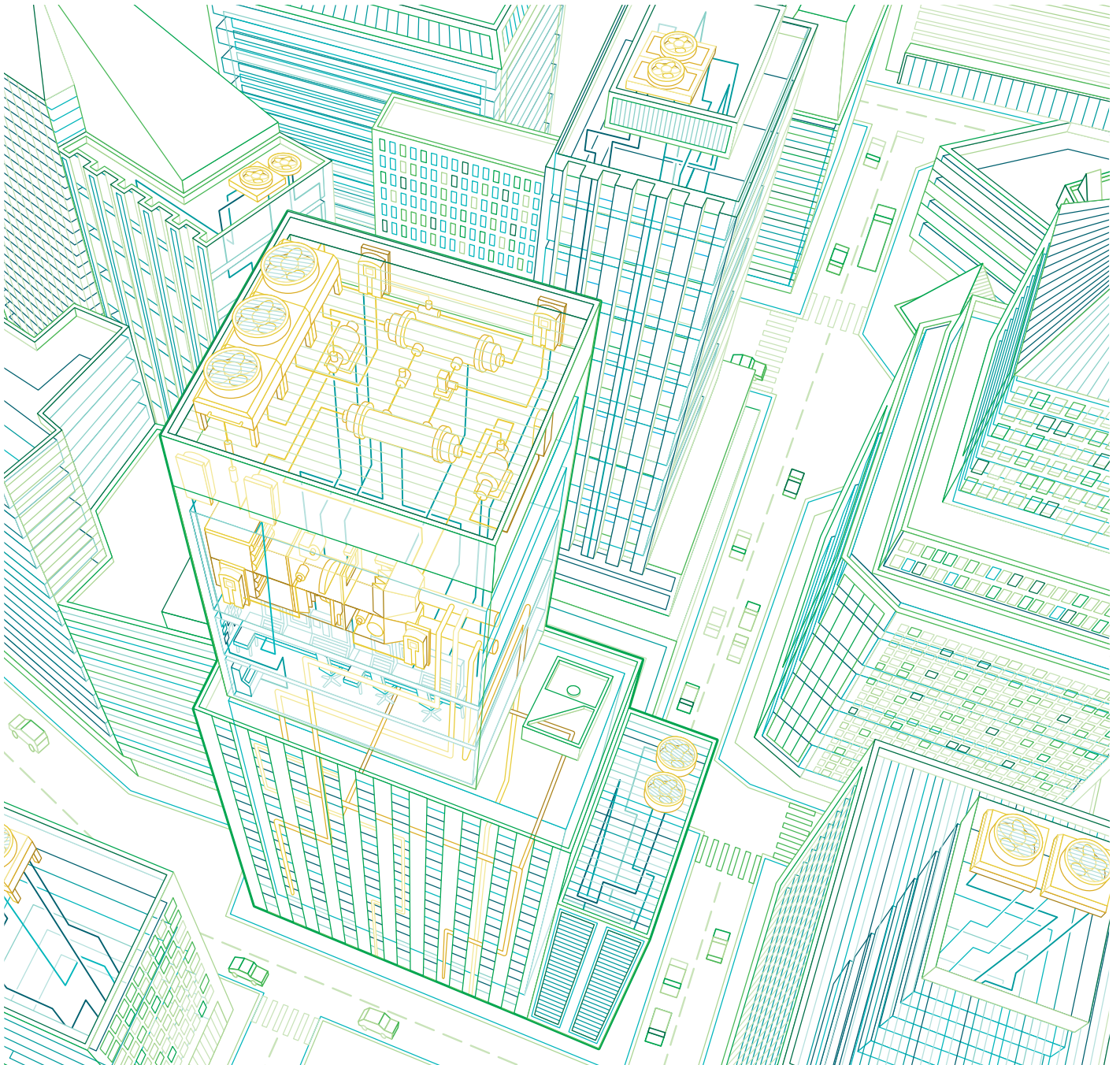
In addition to the integrated input wiring of the pluggable socket system, there is no need for the input terminals here with direct output. This design needs less space and can be carried out quickly. The effect? The system is clearly structured and laid out – with maximum cost and time savings.

The vertical option has all the advantages

The vertical use of the SMISLINE TP produces a compact design which offers maximum flexibility and time/cost savings in both new and modified installations. This is yet another reason why this pluggable socket system with integrated busbars offers such advantages to planners, switchgear system designers and end customers in equal measure.

Freedom for architects and planners Everything is possible

In conventional distribution boxes, laying out devices with different polarities soon leads to frustration and, in many cases, wiring mix-ups. Challenges like this are solved with just a simple click in the SMISSLINE TP system and are part of the absolutely standard repertoire.



Mixed-polarity layout on DIN bar

In a conventional distribution box, the board must always be precisely the right one for the relevant combination of devices. If this board is not available, considerable extra work is required. It therefore has to be clear from the start which device is to be plugged onto which busbar, and the sequence of the device is determined by the busbar. In addition, the length of the busbar is limited.

Mixed-polarity layout with SMISSLINE TP

It's irrelevant whether it's 1-, 2-, 3- or 4-pole devices, with or without auxiliary/signal contacts – devices can be laid out in any order on the SMISSLINE TP socket. Even devices of different designs with or without auxiliary and signal contacts can be placed next to each other as required. That keeps the mind clear from planning to installation and offers a considerable time advantage.



Safety from airports to purpose-built buildings

Welcome to SMISSLINE TP

More advantages for a wide range of applications:

The pluggable SMISSLINE system reveals its strengths wherever rapid replacement, simple expansion capabilities, mixed-polarity layout or a high level of standardisation are needed for devices.

Safe:

- High power availability
- Excellent safety for maintenance and servicing
- Completely finger-safe IP2XB
- Approved all over the world



Public-service/industrial buildings



Computer centres/critical power



Alternative energies

Flexible:

- Mixed-polarity layout possible
- A range of incoming options
- Easy to expand

Economical:

- Rapid changes of use
- Easy to expand
- Cost-effective replacement



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