BROCHURE

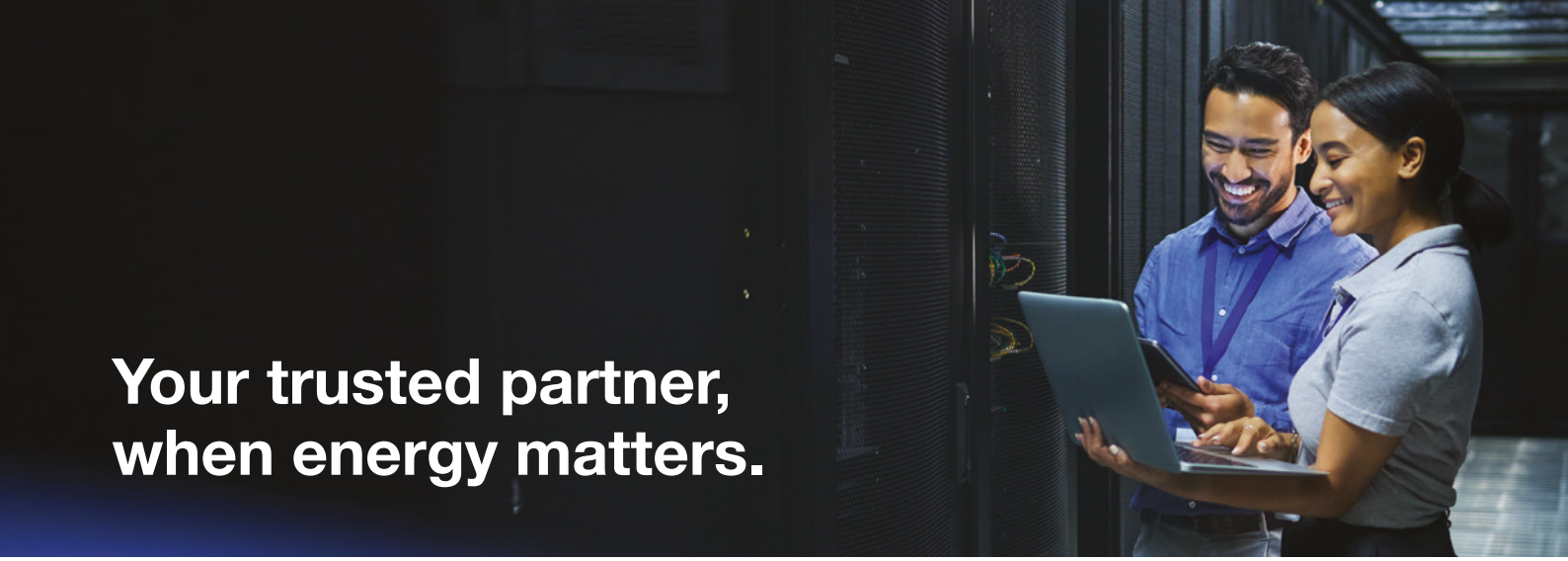
Data Centre

Critical power solutions for AI-ready infrastructure



When **energy** matters

socomec
Innovative Power Solutions



Your trusted partner, when energy matters.

Five challenges **redefining data centre infrastructure**

Driven by the rapid adoption of AI and digital services, **the next generation of data centres is reshaping infrastructure requirements**. Operators must deliver more capacity, faster and more efficiently, while maintaining availability, flexibility and control.

Accelerating capacity deployment

AI and digital services are driving unprecedented demand for new Data centre capacity.

Standardised designs, modular systems and prefabricated approaches can shorten deployment times, facilitate replication across sites and reduce project risk.

2x data centre capacity by 2030

Supporting AI-driven growth

AI is increasing power densities and transforming workload profiles.

Data centres must support a broad mix of applications, from cloud computing and inference to large-scale AI training, while ensuring that electrical and cooling infrastructures can evolve together.

50% of workloads could be AI-driven by 2030

Overcoming grid constraints

Access to power is becoming a defining constraint for data centre growth.

Limited grid capacity, increasing connection lead times and new grid stability requirements are reshaping site selection, infrastructure design and deployment strategies.

Fault Ride Through
an emerging data centre grid requirement

Preserving open & flexible architectures

Technologies, deployment models and customer requirements continue to evolve rapidly.

As data centres grow in scale and complexity, flexibility becomes critical. Open, interoperable infrastructures support technology evolution, scalable growth and long-term architectural freedom.

80% of operators see infrastructure adaptability as critical for AI adoption

Driving efficiency & sustainability

As power demands continue to rise, efficiency is more important than ever.

Operators are challenged to optimize energy consumption and carbon impact while supporting higher-density workloads and increasingly ambitious sustainability targets.

1.2 PUE an emerging design target

Critical power expertise for data centres at scale

Close to our customers and focused on critical power, SOCOMEC combines specialist technologies with engineering expertise, global delivery capabilities and lifecycle support to help data centres evolve with confidence at every stage of their journey.

From grid connection to AI workloads, we work alongside data centre operators **to develop and standardise resilient architectures that evolve with their requirements.**



Design for evolving requirements

Our application and engineering expertise supports open, interoperable and scalable electrical architectures that adapt to changing data centre and end-user requirements.

100+ years of expertise | Open by Design | AI-ready equipment

Deploy at scale

Global manufacturing capacity, extensive testing facilities and international project experience help customers standardise designs, qualify solutions and accelerate multi-site deployments.

13 production sites worldwide | 130,000 m² manufacturing footprint

Operate for the long term

A global network of certified experts supports commissioning, maintenance, modernisation and digital services. This helps operators maintain high levels of availability throughout the infrastructure lifecycle.

500+ certified experts | 150,000+ interventions per year

98% SLA achievement

Enable more sustainable data centres

From power conversion to services, sustainability is embedded across the SOCOMEC portfolio. High-efficiency technologies, monitoring solutions, energy storage and lifecycle services support data centres in reducing environmental impact while enabling sustainable growth.

High-efficiency equipment | 90% PEP* certified portfolio

* PEP-certified products provide transparent and verified environmental data across the product lifecycle.

Critical power across the data centre

SOCOMEC provides specialist expertise and solutions for power continuity, source transfer, protection, monitoring and energy storage.

These solutions support both building-integrated and modular architectures, helping operators retain design freedom, standardise deployment and maintain operational control across their sites.




External Cooling Plant
ATS Enclosed
Grey space - Technical corridor
STS
PDU
STS
PDU
STS
PDU
STS
PDU
White space - IT area
Aisle 1
Tap-off distribution
Aisle 2
RPP distribution
Fan walls
H_2
Fuel cell
Battery Energy Storage System

Power continuity for critical IT and cooling loads

The grey space forms the backbone of the data centre electrical infrastructure, bridging the gap between energy sources and the white space where IT workloads run. It brings together the critical systems that secure, condition and distribute power to both IT and cooling loads.

Critical power for IT

Maintain availability for high-density IT loads with high-efficiency UPS and fast transfer between independent power sources.

1 *DELPHYS XM / XL / XL+*

From 500 to 1250 kVA/kW
High-power UPS range for critical IT applications, combining compact integration, high efficiency and resilient operation.

>98% efficiency

2 Batteries

VRLA / TPPL / Lithium
Advanced battery solution designed for UPS.

3 *STATYS* range

From 400 to 1800 A
Advanced static transfer systems ensuring uninterrupted power for block-redundant architecture.

35 years of expertise



6 From power quality to distribution visibility

Gain real-time visibility of power quality, energy performance and capacity utilisation across critical IT and cooling infrastructures.



DIRIS Digiware

Modular AC and DC power monitoring system
Provide accurate multi-circuit monitoring across IT and cooling power distribution.



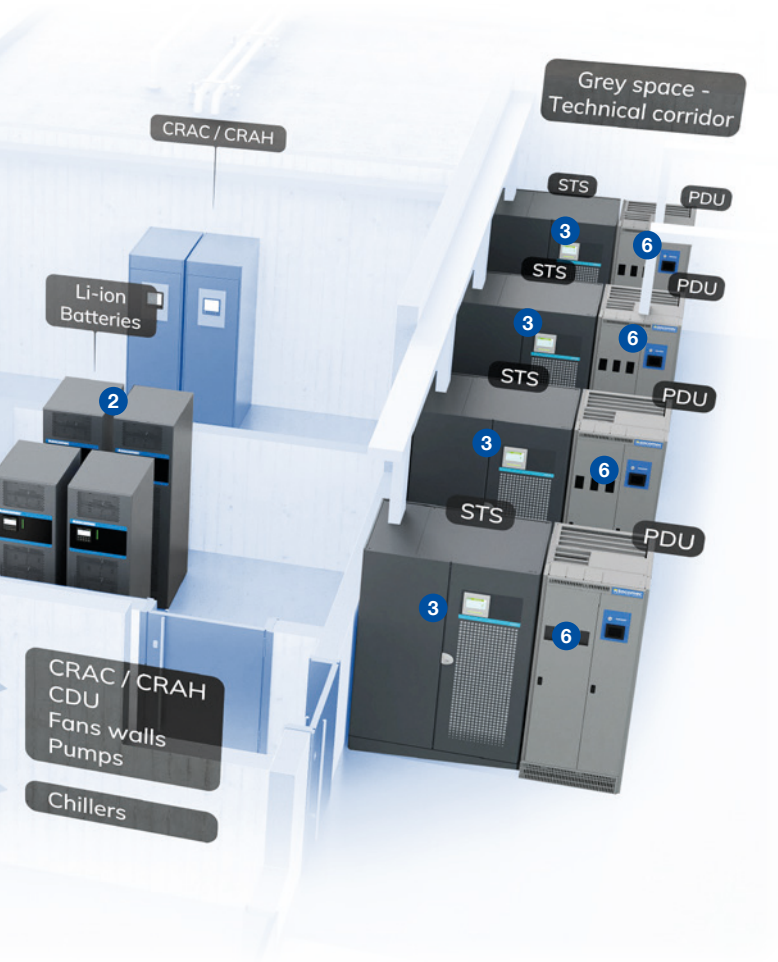
DIRIS Q800

Class A power quality instrument
Analyse and record power quality events that could affect critical IT and cooling infrastructure.



DIRIS A-200

Power quality meter
Provide reliable local measurement and monitoring at switchboard and feeder level.



Secure power for cooling

Maintain the availability of HVAC controls and critical mechanical loads with UPS, source transfer and monitoring solutions suited to each application.

4 *ATyS* range

From 40 to 5000 A
Remotely operated or automatic transfer switching equipment.
For seamless source transfer of critical loads.

Integrated controller

5 *DELPHYS XM*

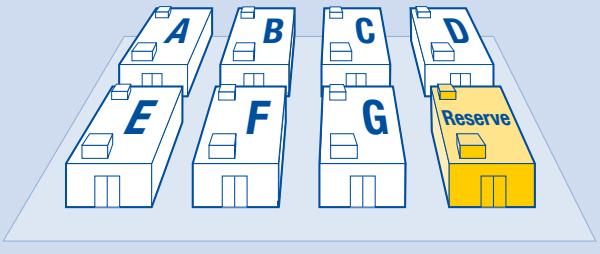
From 300 to 800 kVA/kW
High power density UPS with superior efficiency.

1 MW / m²

Architecture focus

Redundancy without overcapacity

Block-redundant (Catcher) architectures maintain high availability with fewer power conversion assets. This reduces installed capacity and footprint while optimising CAPEX and OPEX.



MODULAR PTU ARCHITECTURE

Critical power for modular data centre growth

Growing demand for AI capacity is changing how data centres are delivered. Prefabricated power modules combine critical electrical functions in repeatable, factory-integrated units. They help operators shorten onsite work, control project interfaces and scale capacity across multiple sites.

SOCOMEC solutions combine compact equipment, flexible integration and factory-tested functions to support consistent PTU design and deployment.

1 *ATyS Bypass*

From 40 to 3200 A
Enclosed transfer switch with bypass function.



2 *ATyS P700* and *P1000*

From 800 to 4000 A
Purpose-built intelligent ATSE supporting resilient power supply across critical electrical and cooling applications.

Open or closed transition



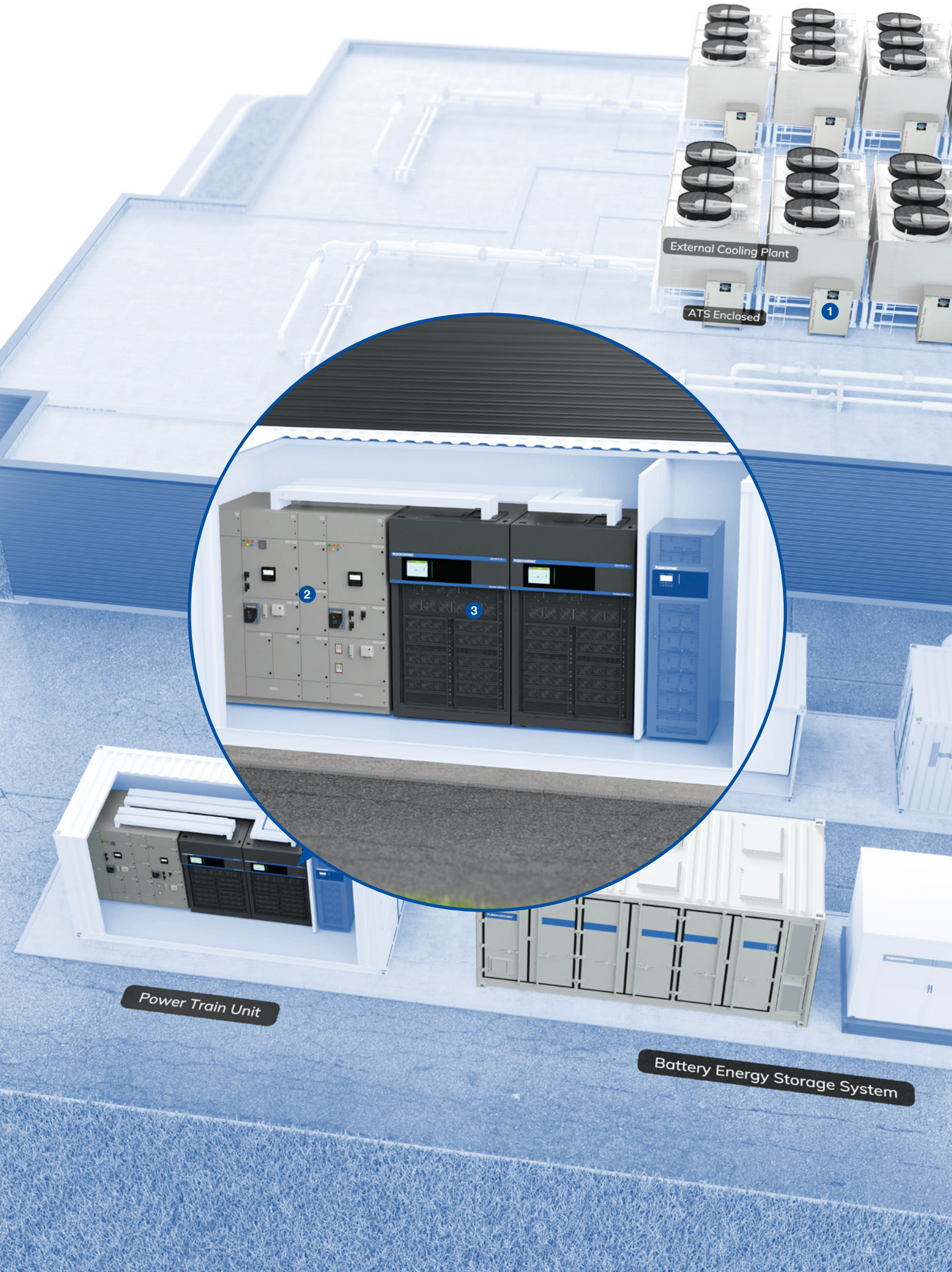
3 *DELPHYS XL+*

From 500 to 1250 kW
High-power modular UPS

- **98% efficiency** driving lower TCO
- **Compact design** for easy integration and rapid deployment
- **Greater flexibility** to support evolving data centres
- **Scalable and reliable power** designed for **serviceability**
- **Secure power** for AI-ready infrastructures

PTU-ready UPS




External Cooling Plant
ATS Enclosed
1
2
3
Power Train Unit
Battery Energy Storage System

Monitoring and protection for high-density IT loads

High-density white space requires accurate data at every level of the distribution chain. SOCOMEC combines compact multi-circuit monitoring with fuse-based protection to help operators use available capacity, detect electrical risks and maintain continuity down to rack level.

Busway and tap-off

1 *DIRIS Digiware*

Modular AC and DC power monitoring system for multi-circuit metering, power quality and residual current monitoring, from the main distribution to the rack.

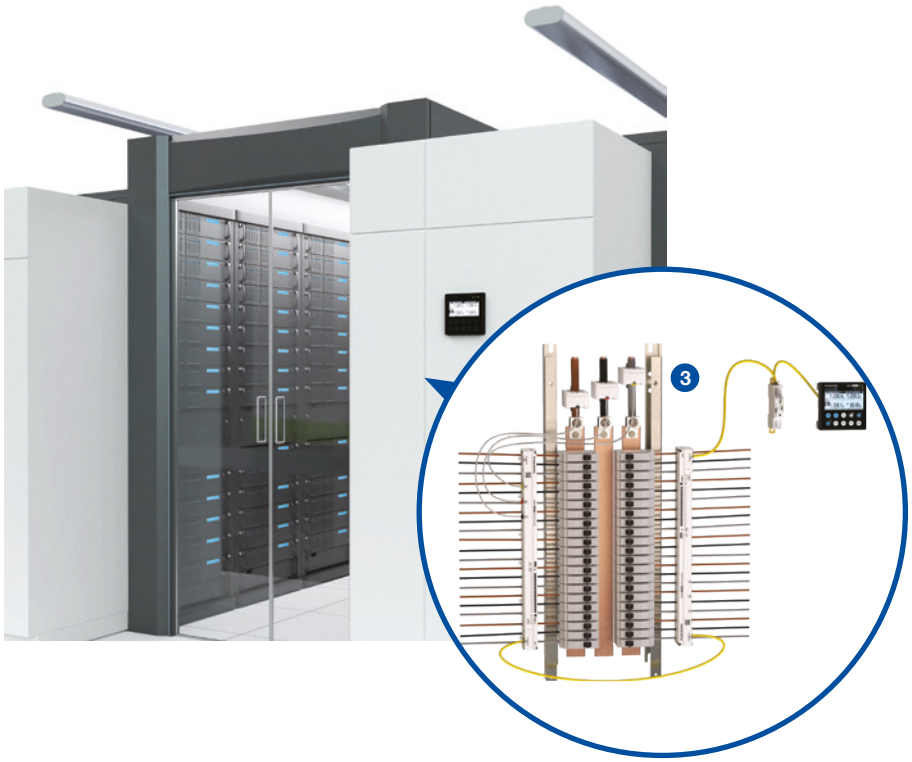
Plug & Play



2 *FUSERBLOC*

From 20 to 1250 A

Compact fuse combination switch designed for tap-off applications, providing total isolation in the OFF position. Breaking capacity up to 100 kA supports reliable protection in high-density power distribution.



RPP

3 *DIRIS Digiware BCM*

Up to 120 A

The DIRIS Digiware BCM is a multi-circuit current measurement module with 18 or 21 integrated sensors and allows the monitoring of all types of power distribution units (PDUs) and remote power panels (RPPs).

For long-term reliability



SOCOMEC supports critical power infrastructure with manufacturer expertise, local service capabilities and a complete portfolio of services designed to maximise uptime, extend equipment lifetime and support more sustainable operations.

Global expertise.
Local support.

500+ certified service experts

Global network of service and repair centres

80+ countries covered

Local teams backed by manufacturer expertise

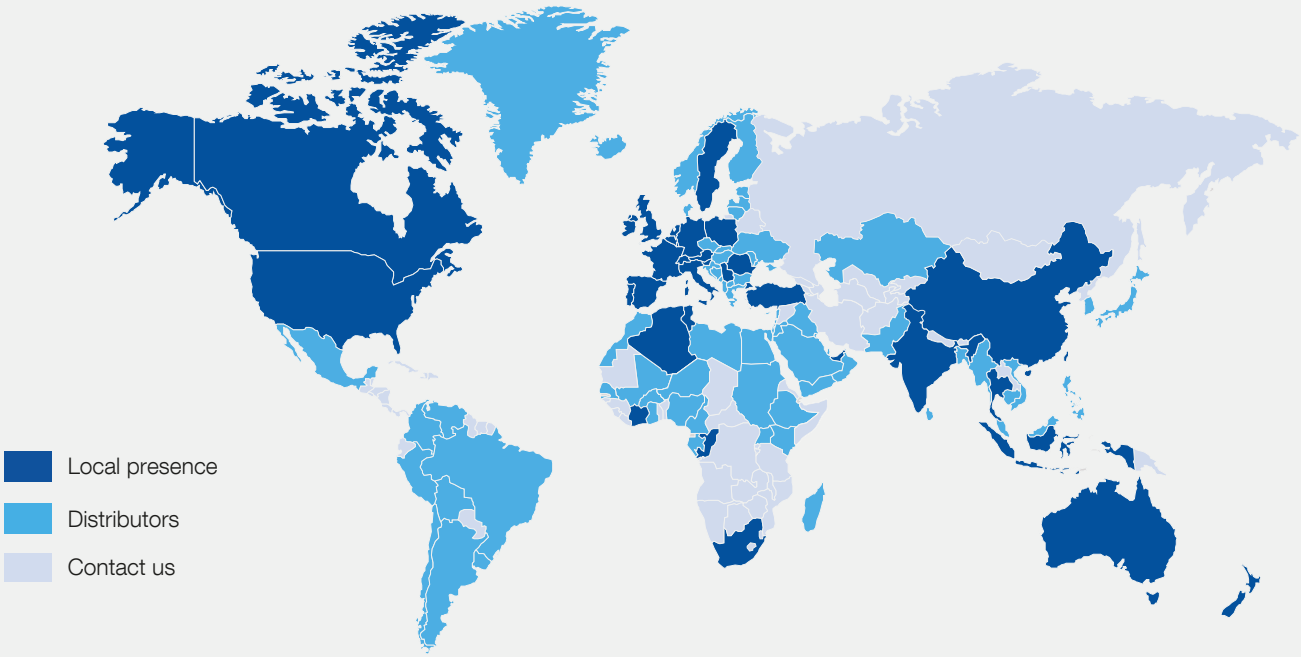
98%
SLA compliance rate

12-YEAR
average maintenance contract duration

- Commissioning levels 4 & 5
- Up to 4-hour SLA*
- Root-cause analysis and expert guidance available
- Remote support & diagnostics
- Global technical escalation process

*Subject to geographical coverage

30 subsidiaries and commercial locations
all around the world, wherever you are



Socomec: our innovations supporting your energy performance

1 independent manufacturer

5,200 employees worldwide

8 % of sales revenue dedicated to R&D

More than **500** experts dedicated to service provision

Your power management expert

- Power Switching
- Power Monitoring
- Power Conversion
- Energy Storage
- SOCOMEC Services

The specialist for critical applications

- Control, command of LV facilities
- Safety of persons and assets
- Measurement of electrical parameters
- Energy management
- Energy quality
- Energy availability
- Energy storage
- Prevention and repairs
- Measurement and analysis
- Optimisation
- Consultancy, commissioning and training

A worldwide presence

13 production sites
- France (x3)
- Italy (x2)
- Tunisia
- India
- China (x2)
- USA (x3)
- Canada

30 commercial locations
- Algeria • Australia • Austria • Belgium • Canada • China
- Dubai (United Arab Emirates) • France • Germany
- India • Indonesia • Italy • Ivory Coast • Malaysia
- Netherlands • Poland • Portugal • Romania • Serbia
- Singapore • Slovenia • South Africa • Spain • Sweden
- Switzerland • Thailand • Tunisia • Turkey • UK • USA

More than 80 countries
where our brand is distributed

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