

# Ensure a power supply for servers and measure their consumption

“ We work for multiple tenants. If customers come to us, it's to have a 100% secure power supply. No power cuts, ever. Everything runs on double source, but I need to know as soon as a circuit is 50% loaded. Sometimes, all that is needed is to rebalance the phases and the problem's settled. But since customers are constantly changing their servers... And then we also have to count the kilowatt-hours to break down the consumption per customer. ”

The switchboards (PDUs) powering the servers make available on the supervision network (Modbus, Ethernet):

- The phase currents arriving at the switchboard.
- The load factor of each feeder.
- The position of each circuit breaker (open, closed, released).

For this purpose they incorporate:

- A Powerlogic BCPM power monitoring unit (for 84 feeders).
- Acti 9 Smartlink communication interfaces (1 for 11 feeders) connected to the circuit-breaker iOF+SD24 auxiliaries.

Each row of equipment is powered by a Multiclip splitter block, which can rapidly correct the phase balancing following a change in the installation.



## For the end user

### Performance

> The user is warned as soon as a protective device trips and he knows precisely where the fault is located.

### Reliability of data and indications

> Low-level signalling contacts complying with IEC 60947-5-4.

> High level of electromagnetic compatibility of the Acti 9 Smartlink modules.



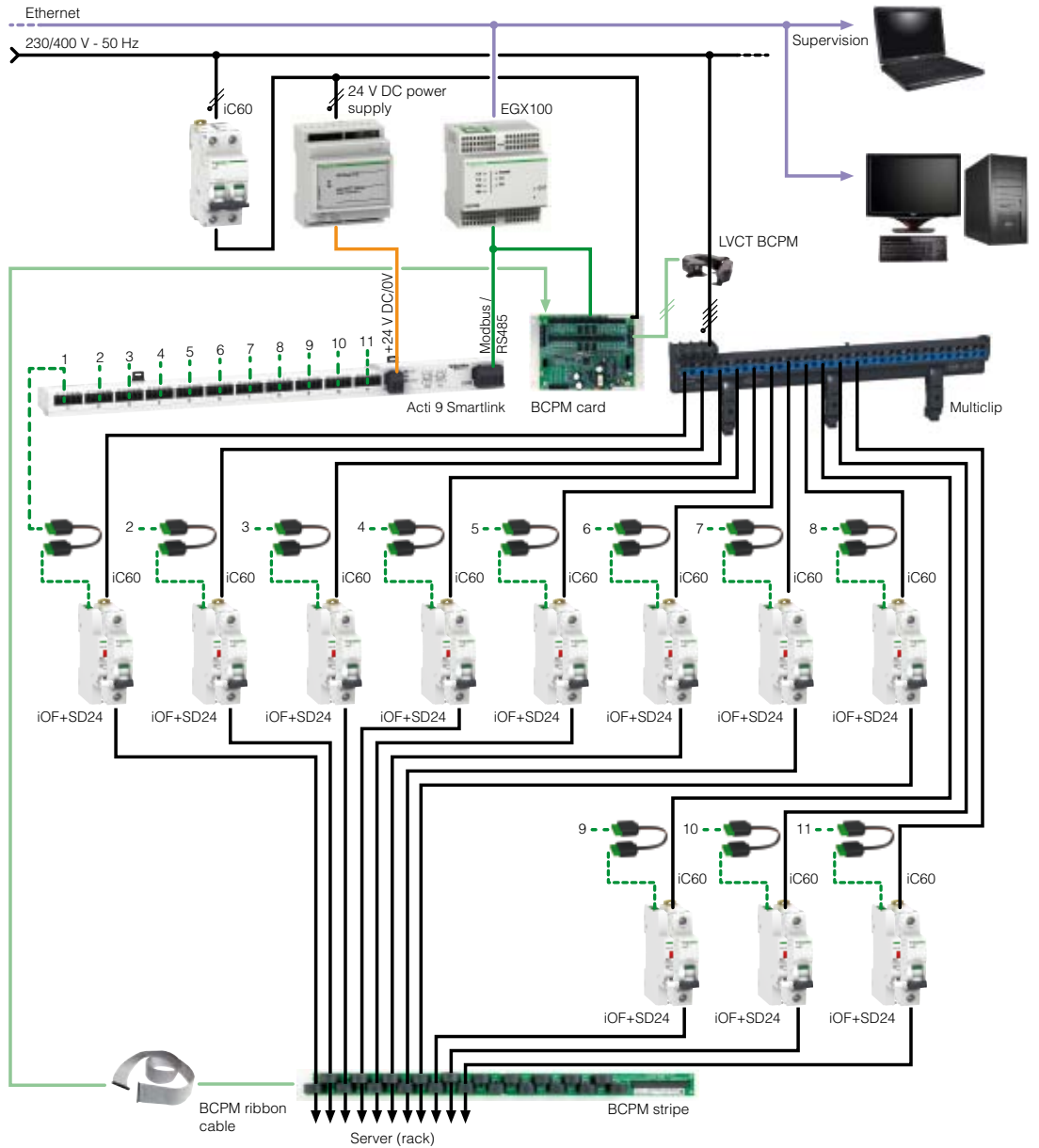
Measure



Reduce energy consumption



Reduce energy costs



For professionals

+ 15% less volume occupied in the switchboard

- The Powerlogic BCPM current sensors and the Acti 9 Smartlink communication interface adapt to the circuit breaker rows.
- Fast connection of auxiliaries.

+ 40% less wiring time on thin wires

- Entirely prefabricated connections with plug-in connectors.



### Acti 9 Smartlink combined with the iOF+SD24 auxiliaries transmits to the Modbus network

- No programming, just an address for each channel via the supervision system.
- 11 channels equipped with the prefabricated TI24 connection interface, compatible with all types of auxiliaries.
- Installation just behind the modular row for improved connection visibility.



- Prefabricated 5-pin 24 V DC connection, available in four different lengths.

### iOF+SD24 circuit-breaker state indication auxiliary:

- Compatible with the prefabricated 5-pin 24 V DC connection.
- Compatible with the iC60 circuit breaker and iID residual current circuit breaker range.



- In compliance with IEC 60947-5-1, IEC 60947-5-4 and IEC 61131-2 standards.

### BCPM (Branch Circuit Power Meter):

- Fitted with two types of CT: solid-core and split-core.
- Supervision of up to 84 single-phase or three-phase circuits.
- High alarm capacity at various levels: high-high, high, low and low-low.
- Compatible with Modbus/RS485.
- Compatible with all types of PDU and RPP.