

# The efficiency you deserve

## > Acti 9

The complete high performance  
modular system for final distribution

**Schneider**  
Electric™  
施耐德電氣



5

generations

of industry experience and 21 new patents  
make Acti 9™ the new reference in low-voltage  
modular systems.

# > Acti 9

'In short, I optimize my own energy'.



## The new core modular system that makes your power distribution installation safer, simpler, and more efficient

> High-quality modular system without compromise

We leveraged five generations of low-voltage expertise to design a precise, high-quality modular system without compromise. The Acti 9 offers the fastest and most flexible installation experience, and completely eliminates safety concerns during maintenance and operation. Engineered to adapt to the most challenging networks and environments while remaining cost-effective over time, it is the most flexible, coordinated, comprehensive, and innovative range of low-voltage modular systems available.

+ The Acti 9 gives you safety, simplicity, and efficiency for the life span of your installation



\* Acti 9: The fifth generation of modular systems

# Acti 9 | The safest, simplest, and most efficient system for power distribution solutions

## Protection systems

- > Miniature circuit breaker
- > Integrated control circuit breaker
- > Residual current circuit breaker
- > Vigi™ module
- > Surge arrester
- > Automatic recloser auxiliary
- > Remote control auxiliary
- > Electrical auxiliaries



## Safer

VisiSafe and Class 2 give complete safety for the life of your installation



## More efficient

VisiTrip, super immunization, and automatic reclosers increase continuity of service and enhance reliability

## Control systems

- > Contactors
- > Impulse relays
- > Indicator lights
- > Push-buttons
- > Kilowatt hour meters
- > Selector switches

## Installation systems

- > IP20B terminals
- > Splitter block
- > Full range of mounting and wiring accessories



## Simpler and smarter

Two certifications for one product, 100 per cent MCB and RCD coordination, and easy ordering and design

Fully BMS compatible, up to 50 per cent less wiring, control mode flexibility adapts to changes, and 100 per cent recyclable

# Safe

Safest operation guaranteed even in the most demanding environments

100%

safe for installers and users in the most severe environments



Best choice for industrial and tertiary buildings



## Designed for safety, even in the most demanding environments

Safety matters most, and the Acti 9 system gives you, your customers, and their installations the highest level of protection available. It guarantees 100 per cent safe operation and maintenance for you and your customers. Its international certifications and numerous protection innovations mean the Acti 9 system exceeds even the most demanding requirements to give you total safety during maintenance, for the lifetime of your installation.

## Comprehensive certification



### Delivers complete industry-approved protection

The Acti 9 is fully tested, approved, and certified by national and international third parties. It guarantees that your installation is safe and compliant with all relevant safety standards, and demonstrates to your customers that you use industry-approved materials and best practices.

'I have no worries about the safety of the electrical installation, the buildings, and everyone inside'.

## Guarantees total safety during maintenance



VisiSafe™

Available only from Schneider Electric

### VisiSafe

VisiSafe guarantees the downstream circuit is always safe, regardless of overvoltage conditions, wear, or operator experience, even in the most demanding environments.

The green strip indicates the safe position of contacts. Unique safety features:

- Highest impulse voltage withstand:  $U_{imp} = 6 \text{ kV}$
- Guarantees longer equipment service life despite overvoltage conditions
- Highest pollution resistance among modular devices: Pollution degree level 3
- A true 'all-terrain' product ideally suited for all environments
- Leading edge insulation voltage: 500 V
- Complete safety for operators maneuvering the operating handle

## Promises absolute protection against electric shocks



Available only from Schneider Electric

### Class 2 front face

The Acti 9 is the only device available with this level of safety. Clearances between breaker surfaces and internal parts are more than double the industry standard. It guarantees risk-free handling during the life of the installation, regardless of environment or operator experience.

## Protects the load



### Fast closing mechanism

Fast closure of all Acti 9 MCBs and RCCBs limits wear and reduces voltage drops, helping to prevent premature equipment aging and overheating.

## Provides zero-risk lockdown



### Integrated padlocking

The integrated padlock guarantees protection and safety of Acti 9 remote control devices, preventing toggle movement and inadvertent or unauthorized access.

## Ensures error-free linkages



EverPlug™

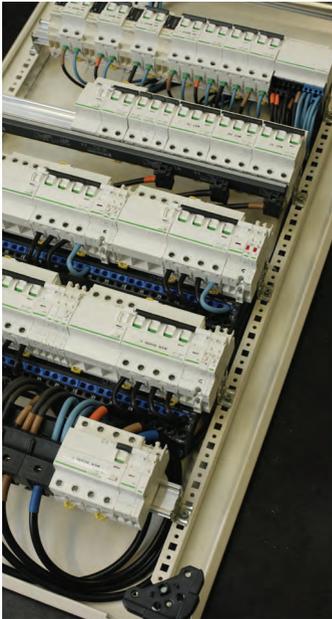
Available only from Schneider Electric

### QuickVigi

Patented EverPlug technology offers permanent 2 kilogram contact force for safe, screwless, one-click connections between MCB and add-on RCD modules.

# Efficient

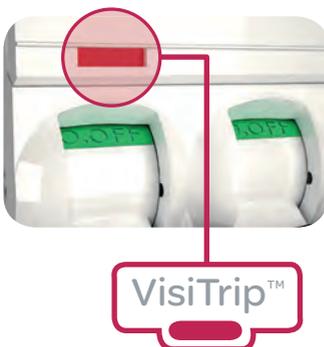
The system that streamlines your operations workflow



## Designed to minimize downtime and avoid nuisance trips

With features like VisiTrip, which greatly reduces diagnostic and repair time, and super immunization of the RCDs to guarantee the highest continuity of service available, the Acti 9 system allows easier building management, eliminates downtime, and makes your business even more competitive, limiting intervention costs on distant infrastructure sites.

## Less downtime, more continuity of service



### **VisiTrip minimizes downtime and reduces repair times**

Identify faults in one glance and you will easily see the operating status of your network. VisiTrip indicates only the faulty outgoer, allowing fast diagnosis, resolution, and reclosing loads for easier building management and reduced downtime.



'When I install the Acti 9 I know I don't have to come back to the job'.



**100%**  
preventative  
maintenance

**0%**  
downtime

## Prevents unnecessary trips

Available only from  
Schneider Electric



**Super immunization (SI) of the RCDs** guarantees the highest continuity of service and electrical immunity, especially where switchgear contends with electromagnetic or chemical interference. It also meets the high continuity of service requirements in all critical power applications (hospitals, data centres, telecoms, and tunnels).

## Enhances service reliability



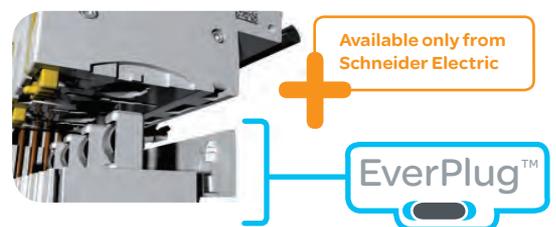
Extended discrimination ranges allow many solutions that restrict downtime to the affected circuit, leaving the rest of your installation intact.

## No need for on-site intervention



The Acti 9 introduces a new automatic recloser auxiliary (ARA iC60) designed to limit the cost of intervention on faraway infrastructure sites. There's no need to have permanent on-site teams responding to transient faults, limiting distant site intervention costs.

## Fast installation



EverPlug technology gives you fast, one-click assembly between QuickVigi and the circuit breaker, with zero maintenance, no-wear connections.

# Simple and Smart |



## The right solution for every application

The Acti 9 simplifies final distribution operations in buildings and industrial facilities, giving you the right solution with the right technical characteristics for every application. As new installation standards emerge or building requirements are modified, the Acti 9 system can easily scale to meet your needs. It's a flexible, open system with all-in-one, integrated components that can communicate with any building management system.

# Simple to choose, easy to design, and straightforward to install

## Easy to design and choose

### Meets two certifications



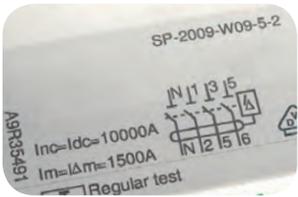
The Acti 9 complies with IEC/EN 947 (industrial) and IEC/EN 898 (tertiary) standards – two certifications in one product – making it perfect for commercial and industrial applications.

### Guarantees 100 per cent coordination



One hundred per cent coordination between RCDs and MCBs means no more searching through technical guides or coordination tables. Plus, in the Reflex iC60 the MCB and internal actuator are a unique all-in-one concept fully covered by the manufacturer's warranty.

### Supports intuitive ordering and design



Meaningful part numbers mean no mistakes and no doubts when ordering or designing. Get the product type, poles, and rating in one glance.

**A9XXX225 = 2P, 25A**

### Conforms to any BMS



Reflex iC60 has integrated signal auxiliaries for complete simplicity. Its control mode flexibility easily adapts to changes in your installation, optimizing design time for lighting and building control.

# 30%

of switchboards are modified at design, cabling, or commissioning stages, increasing project start-up times

## Reflex iC60: The all-in-one concept integrated control circuit breaker of the Acti 9 system



The Reflex iC60 combines an MCB with an internal actuator. Designed to evolve and adapt with the dynamic requirements of tertiary and industrial lighting control applications, it easily communicates with PLCs and BMS systems without the need for add-ons, retrofits, or extras. Everything you need is included.

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Schneider Electric



# Simple and Smart



## Easy to install

Up to 50 per cent less wiring



Reflex iC60 all-in-one concept means up to 50 per cent less wiring for reduced cabling and more efficient verification and connection.

Lighting control solution with (left) and without (right) Reflex iC60 all-in-one concept

## Allows heavy-duty, reliable tightening



Twice the terminal tightening torque for more robust connections

## Intuitive assembly



QuickVigi's EverPlug technology means a single click is all it takes to ensure fast, error-free linkages

'Everything is simpler with Acti 9. Whatever the application, I have no second thoughts'.

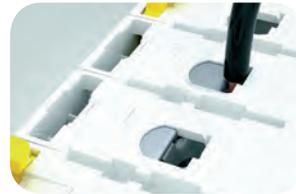
## Easy to operate

### Provides greater readability



Its ergonomic interface allows specific color coding for padlocking devices. The N indicator is easily readable for speed of servicing. Acti 9 label maker gives your installation a professional appearance.

### Safe and secure connections



Provides secure connections with quick, ergonomic, and safe IP20B terminals shutters

### Comes with tailored accessories



The Acti 9 system includes a comprehensive list of accessories: easily installed padlock system, splitter block, rotary handle mount for switchboard doors, screw shields, sealable terminal shields, plug-in base, interpole barrier, and clip-on markers.

## Easy to upgrade

### Adapts to your installation



Double DIN rail locker allows circuit changeouts without removing the comb. It adapts to new requirements and simplifies switchboard evolution.

### Evolves with changing site requirements



Multiclip distribution system allows you to quickly add outgoing and balance phases. Multiclip offers screwless, safe connections.

**100%**

coordination between MCB and actuator

**15%**

time saved on design and installation

# Attractive and environmentally friendly



## Advanced ergonomics and attention to detail

The Acti 9 is designed to be noticed. We incorporated clean lines with distinctive, gently rounded shapes to give the Acti 9 its faultless appearance. It immediately suggests well-designed and user friendly aesthetics and particular attention to detail. Clarity of identified circuits and elegant appearance will have your customers impressed with their outstanding installations.



Acti 9 lets you touch and feel the difference

## High quality, subtle, and precise

Holding the Acti 9 in your hand, you can feel the high quality. Contacts close quickly and precisely, with no hint of dubious noise. The solid fit of its components and its smooth surfaces mean you can feel the difference even before you use it.

'You can tell it's a high quality product when you hold it in your hands'.



## A better use of energy, from start to finish

The Acti 9 helps you meet developing energy efficiency and environmental certifications or requirements, now and in the future. It minimizes impact from the design stage, through the installation's lifetime of use, and eventual recycling. Through both design and technology, the Acti 9 provides you with the key combination of less impact and more efficiency that is necessary for the environment today.

**The Acti 9 is your safe, efficient, and simple choice for low-voltage modular systems.**

**100%**

recyclable and recoverable materials, RoHS compliant, and REACH

**20%**

savings in energy losses

# Acti 9

Safe, efficient, simple, and smart

'I always have the right solution, at the right price with the right technical characteristics for each application'.

## Circuit breakers

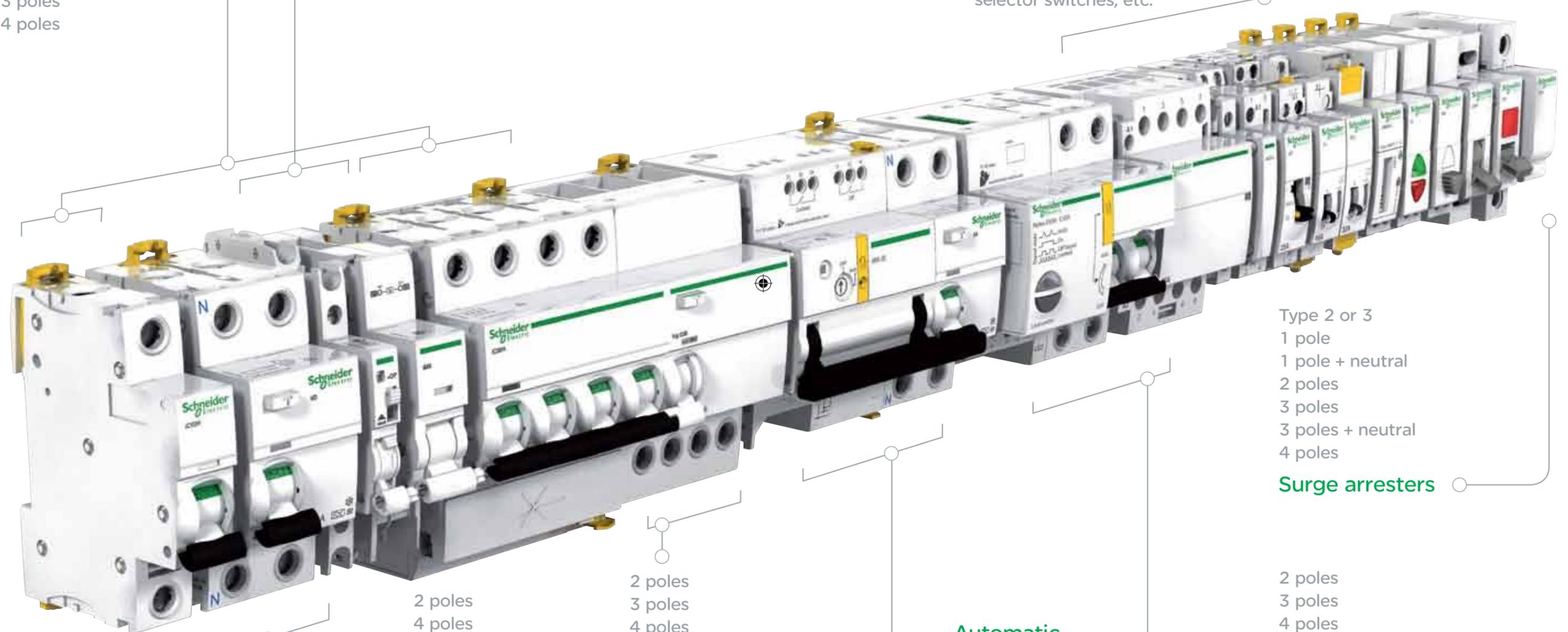
- 1 pole
- 1 pole + neutral
- 2 poles
- 3 poles
- 4 poles

## Electrical auxiliaries

Tripping, notification, indication, and remote status indication

## Control

Contactors, impulse relays, indicator lights, push-buttons, kilowatt hour meters, and selector switches, etc.



- 2 poles
- 4 poles

## Residual current circuit breaker

- 2 poles
- 3 poles
- 4 poles

## QuickVigi module

## Automatic recloser auxiliaries

- Type 2 or 3
- 1 pole
- 1 pole + neutral
- 2 poles
- 3 poles
- 3 poles + neutral
- 4 poles

## Surge arresters

- 2 poles
- 3 poles
- 4 poles

## Integrated remote control circuit breaker

**100%**

safe for installers and users in the most severe environments

**100%**

coordination between MCB and actuator

**100%**

preventative maintenance

**15%**

time saved on design and installation

**0%**

downtime



best choice for industrial and tertiary buildings

# Acti 9 communication system

Ready to connect to any facility management solution

## > Smart

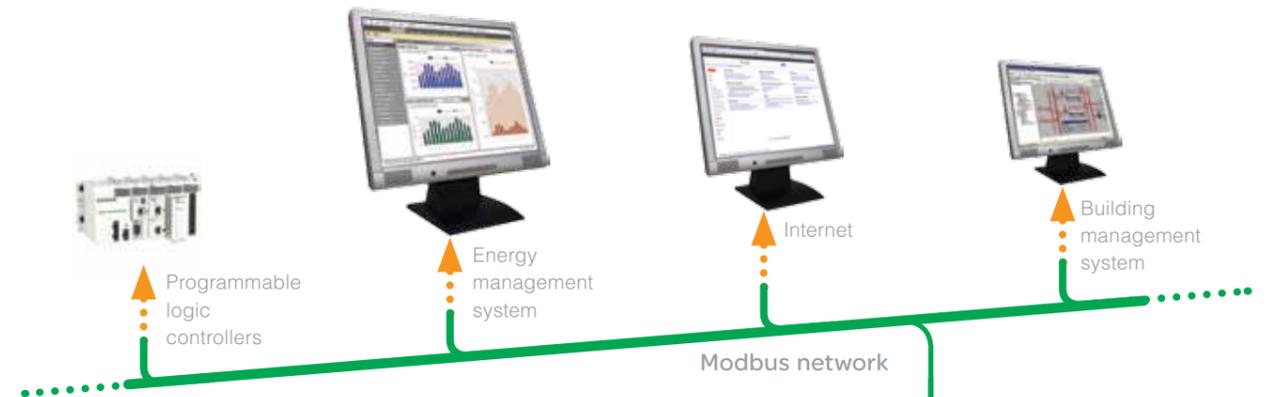
- Centralize control, collect energy meter data with just a simple, ready-to-connect communication module.
- Large diversity of data available to universal Modbus protocol.

## > Efficient

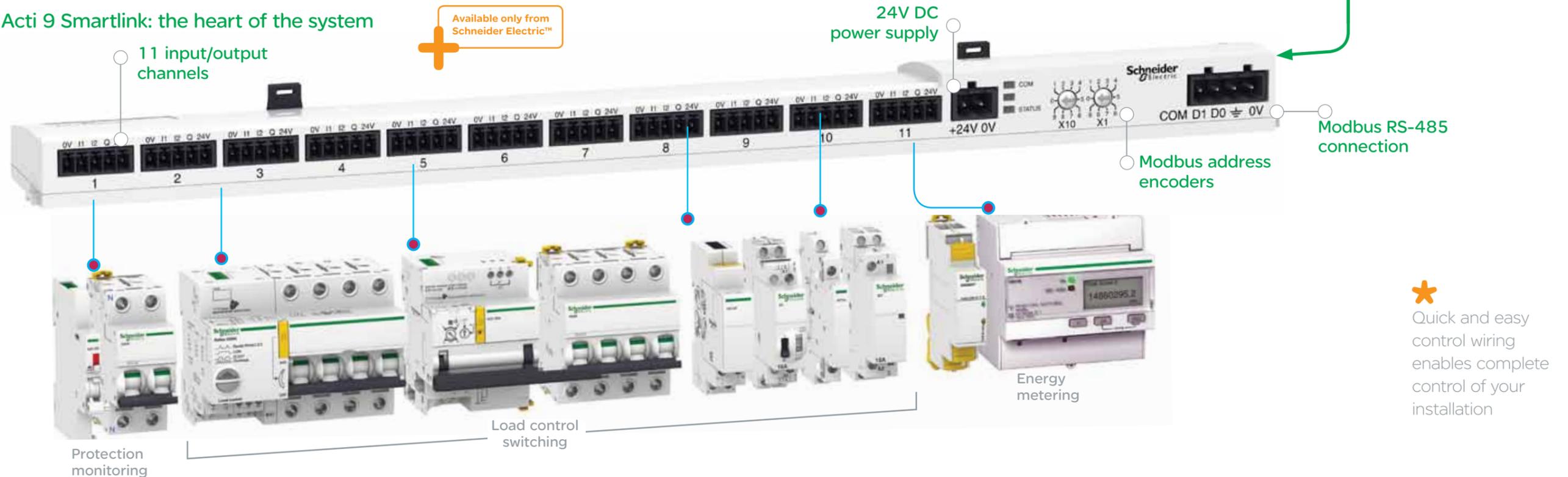
- One-click, prefabricated wiring for comprehensive communication between your distribution panel and any facility management system.

## > Safe

- Reliable, error-proof manufacturer guaranteed connections
- EMC tested for immunity, radiated, and conducted safety.



## Acti 9 Smartlink: the heart of the system



Meets the challenge of all your applications

Interior and exterior lighting, load monitoring, and cost allocation



Monitor and adjust specific loads

Detailed load control, reduced downtime, and accurately planned maintenance

# Technical characteristics

## Circuit breakers

### iC60 N, H

ICU (A) at 400V - IEC/EN 60898-1	6000, 10000
ICU (kA) at 415V - IEC/EN 60947-2	10, 15, 20, 25, 50, 70, 100
Type	1P, 1P+N, 2P, 3P, 4P
Rating (A)	0,5 to 63
Curves	C, D
Standards	IEC/EN 60947-2, 60898-1
Degree of protection	IP20/IP40



## Add-on residual current devices

### Vigi iC60

RCD Type	AC
Type	2P, 3P, 4P
Rating (A)	25, 40, 63
Standards	IEC/EN 61009-1
Sensitivity (mA)	30, 300
Degree of protection	IP20/IP40
Connection between iC60 & iC60 Vigi	'Quick connection' up to 40A



## Residual current circuit breakers

### iID

RCD Type	AC
Type	2P, 4P
Rating (A)	16 to 125
Standards	IEC/EN 61008-1
Sensitivity (mA)	30, 300
Degree of protection	IP20/IP40



## Installation and wiring

### Multiclip splitter block

### Distribloc splitter block

Rating (A)	80	63
Degree of protection	IP20	IP20



## Surge arresters type 2 or 3

iPF, iPRD

Type	1P, 1P+N, 2P, 3P, 3P+N, 4P
I max (kA)	8, 20, 40, 65
Standards	IEC 61643-1, IEC 61643-11
Degree of protection	IP20/IP40



## Integrated remote control MCBs

Reflex iC60N, iC60H

Curves	C, D
Type	2P, 3P, 4P
Rating (A)	10, 16, 25, 40
Standards	IEC 60947-2
Electrical endurance	30 000 cycles (AC1) 6,000 cycles (AC5 a/b) 50 000 cycles (AC21)
Degree of protection	IP20/IP40



## Control

iCT

iTL

iPB

iSSW

iIL

iEN, iME

Control	iCT	iTL	iPB	iSSW	iIL	iEN, iME
Function	Contactors	Impulse Relays	Push-buttons	Switches	Indicator Lights	kilowatt hour meters
Type	1P, 2P 3P, 4P	1P, 2P, 3P, 4P	single double single + indicator light	1P, 2P, 3P, 4P	single double flashing light voltage presence	single phase three phases three phases neutral
Rating (A)	16, 25, 40, 63, 100	16 & 32	20	20 to 125		40 to 6000
Standards	IEC 61095	IEC 60669-1 IEC 60669-2-2	IEC 60669-1 IEC 60947-5-1	IEC 60669-1 IEC 60669-2-4 IEC 60947-3 IEC 60947-5-1	IEC 60947-5-1	IEC 62053-21 IEC 61557-12
Electrical endurance (O-C operations)	100 per day	100 000 AC22 (16A) 200 000 AC21 (16A) 20 000 AC22 (32A) 50 000 AC21 (32A)	30,000 AC22	30 000 AC22		



## Electrical auxiliaries and mounting accessories



Combined iOF, iSD, iMN, iMX, and iMSU electrical auxiliaries between iC60 circuit breakers and iLD residual current circuit breakers, automatic recloser, and remote control auxiliaries



Terminal shields, interpole barrier, screw shields, plug-in base, padlocking device, clip-on terminal markers, and rotary handle

# Acti 9 communication system

## Acti 9 Smartlink: The heart of the system



Modbus processing interface providing:

- Circuit breaker status
- Energy meter output
- Contactor/impulse relay control and status

Smart functions integrated:

- Energy counting from pulses
- Average power calculation
- Event counting
- Running hours

Available only from  
Schneider Electric



## Circuit breaker auxiliary



iOF+SD24, OF+SD24

- 24V DC low-level contacts
  - CB open/closed position
  - CB tripping indication

## Pre-cabled links



- Pre-cabled for error-proof connections
- Available in various lengths

## Energy meters



iEM2000T iEM3110

- DIN rail mounted
- Designed for metering active energy consumed by a single- or 3-phase electric circuit

## Contactor auxiliary



iACT 24

- 24V:
  - Command to contactor
  - Open/closed contactor position
- 230V command to contactor
  - Various configurable local/remote control combinations

## Integrated control circuit breaker



Reflex™ iC60

- 24VDC and 230 VAC
  - Command
  - Open/close position
  - Tripping indication
- Various configurable local and remote control combinations

## Impulse relay auxiliary



iATL 24

- 24V:
  - Command to impulse relay
  - Open/closed impulse relay position
- 230V command to impulse relay
  - Various configurable local/remote control combinations

## Circuit breaker remote control



RCA iC60

- Remote opening/closing of MCBs
- Remote control resetting after tripping
- 24VDC and 230VAC command and MCB position
- Various configurable local/remote control combinations



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As standards, specifications and designs change from time to time, please ask for confirmation of the information given in this publication.