

SeT Series

RM AirSeT

Pure Air and Digital



SF<sub>6</sub>-free Secondary GIS IoT connected MV Switchgear

[se.com/rmairset](https://se.com/rmairset)



**Schneider**  
Electric

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# Introducing RM AirSeT

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RM AirSeT

Sustainable and flexible  
for more efficient operations

Smart and digital for  
better connected grids



# Innovation is in the air

It's here. RM AirSeT is a SF<sub>6</sub>-free gas-insulated switchgear (GIS), designed to help you meet your sustainability challenges without compromise on form or function.

A huge step forward to reduce CO<sub>2</sub>e footprint of electrical networks, RM AirSeT is powered by [pure air](#) – eliminating the need for SF<sub>6</sub> (sulfur hexafluoride), a potent greenhouse gas, and other F-gases increasingly targeted by regulators. Pure air is safer and sustainable by nature, it is free from compliance risks related to future regulations.

To make the change possible, RM AirSeT's innovative design combines proven, clean, and reliable [air and vacuum technologies](#).

Additionally, RM AirSeT achieves maximum flexibility, retaining all functional units of a traditional SF<sub>6</sub> switchgear with the option of combining them freely, based on individual need and preference.

[Find out more about SF<sub>6</sub>-free technology. Watch now.](#)



# A step forward for MV distribution

RM Air**SeT** is a breakthrough in SF<sub>6</sub>-free gas-insulated switchgear technology, offering:



Enhanced sustainability



Extensive flexibility with multiple functional units



Increased efficiency



Greater safety

# Sustainable and flexible for more efficient operations



# Achieve your sustainability goals

Move away from SF<sub>6</sub>, pure air is the new gas.

RM AirSeT enables you to achieve new levels of sustainability by taking the next step toward your decarbonized grid of the future. Pure air is harvested from nature, has no global warming potential (GWP) and no sole-source supply. The AirSeT technology is reliable, future-ready, and free from regulatory considerations.

To enable the change from SF<sub>6</sub>, Schneider Electric has combined pure air for insulation and [Shunt Vacuum Interruption \(SVI\)<sup>TM</sup>](#) technology to switch the current, while producing no alternative gases or toxic byproducts.

The powerful [CompoDrive operation mechanism](#) delivers enhanced mechanical performance with capacity up to 10,000 operations—making RM AirSeT ideally suited for distribution networks with extensive DER integration.

See page 10 for more information on CompoDrive.

## Zero

recycling required for air at end-of-life

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## Lower

total cost of ownership

# Advanced flexibility tailored to customer needs

RM AirSeT offers a wide portfolio of functions\* and flexible configuration to align with your needs. This free combination of functions enables simpler, faster installation and is more cost efficient than adding several single extensible functions.

What's more, RM AirSeT can easily be extended with more functions simply by adding modules as required, and each functional unit has the same dimensions – preserving the compactness of the device.

[Visit RM AirSeT page](#)

\*Up to 4 functional units can be combined into switchgear:

- Switch
- Direct cable connection
- Switch-fuse
- Circuit breaker

\* Please contact us for availability



# Move to RM AirSeT with ease

Upgrading to a new, pure air-powered switchgear is a breeze with RM AirSeT.

The device retains the familiar three-position switch for closed, opened, and earthed – the first SF<sub>6</sub>-free switchgear to do so. This means unchanged operation, which allows for simple adoption, grid modernization, and helps reduce upgrade risks.

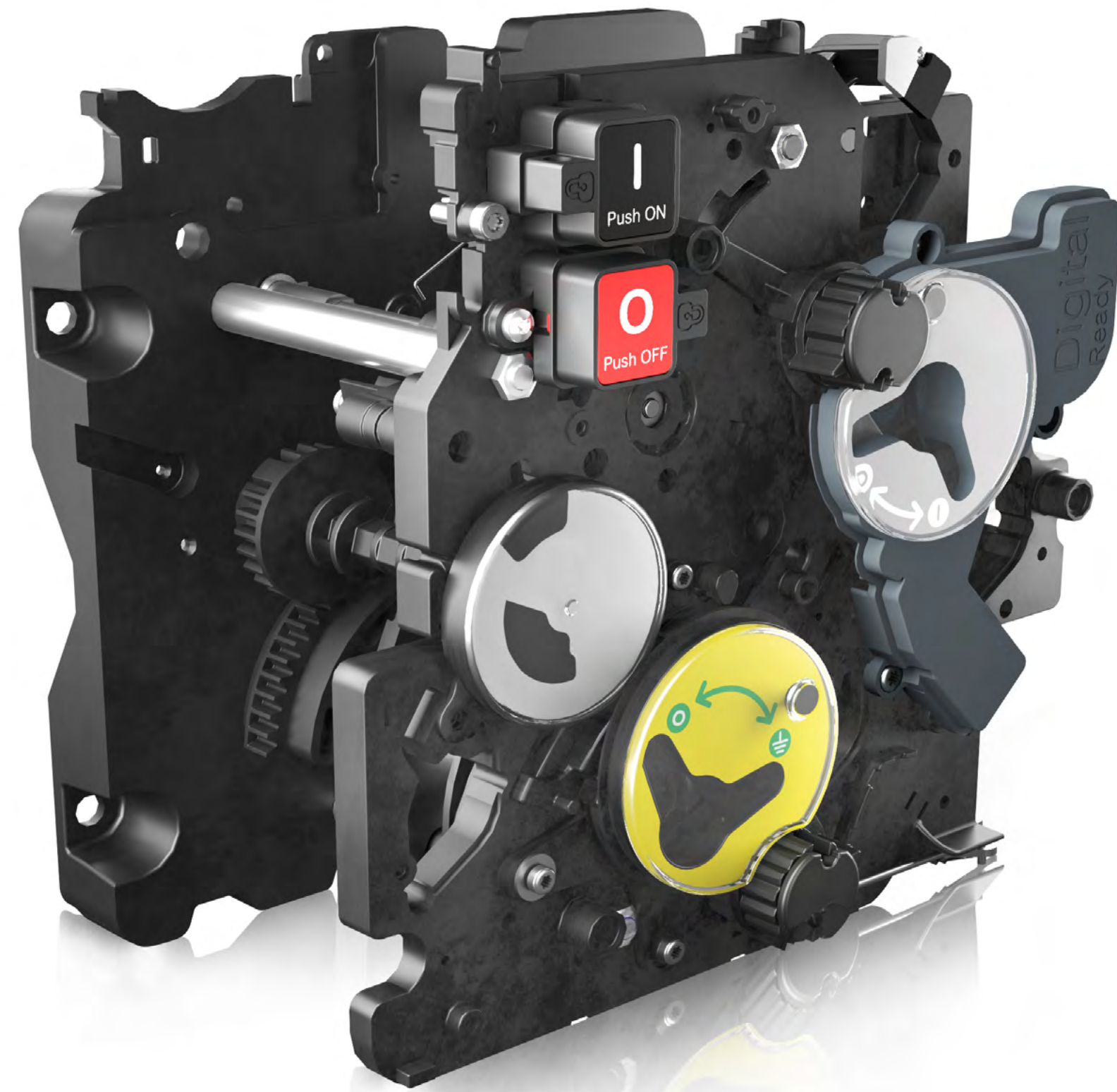
Beyond simplicity, RM AirSeT offers higher performance than former generations to cover a vast majority of requirements.

Utilizing the same proven Shunt Vacuum Interruption (SVI)<sup>™</sup> technology found in the I functional unit, the Q functional unit delivers a true fuse-combination solution. It efficiently protects transformers up to 2000kVA (with transfer currents of 1700A in 12kV or 1200A in 24kV). The B functional unit's circuit breaker supports fast operating sequences (up to O - 0.3s - CO - 15 s - CO) for advanced grid applications. A unique IP54 enclosure with optional solar radiation protection allows for RM AirSeT outdoor installation.



[Discover RM AirSeT in this video](#)

# Made of efficient components



RM AirSeT features the next-generation operating mechanism. The CompoDrive helps improve your grid's environmental performance, allowing up to 10,000 operations, accommodating more switching linked to intermittent generation from distributed energy resources (DERs).

As well as saving operation time and costs, the mechanism is composed of parts engineered from high-tech composite materials that improve resistance to harsh environments. This highly robust design extends the lifetime of RM AirSeT to an industry-leading 40 years.

[Find out more about the CompoDrive. Watch the video.](#)

# Built for enhanced durability



RM AirSeT is built tough. Functions are contained within a water-and-dust-resistant IP67 stainless steel enclosure, protecting medium voltage live parts from ambient conditions.



The tank is sealed for life, enabling service continuity in all operating conditions, including those affected by harsh environments, dust, pollution, or biological factors.

# Increased operator and public safety

Powered by air and digital, RM AirSeT increases safety in two ways – operationally and environmentally.

## Operational:

RM AirSeT prioritizes operational safety and is designed to withstand internal arc faults in accordance with IEC 62271-200, featuring adaptable upward or downward exhaust and an integrated arc killer. As an EcoStruxure-ready device, it combines this physical protection with advanced condition monitoring, enabling operators to take preventive action before a fault occurs.

## Environmental:

As pure air is used for insulation and vacuum interrupters for switching, RM AirSeT generates no toxic byproducts from current breaking – which also enhances the safety of the environment and users.



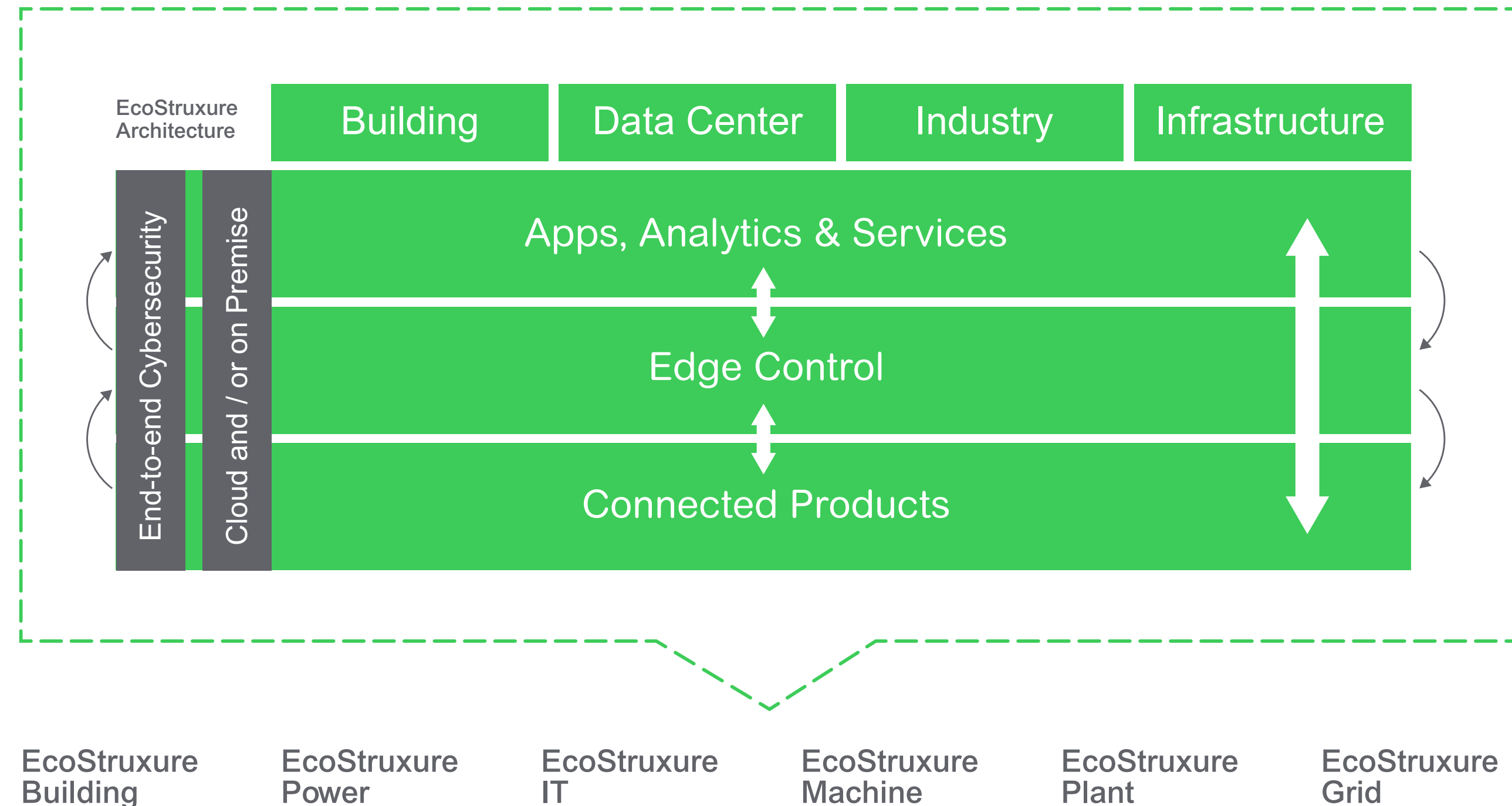
# Smart and digital for better connected grids

# Discover the added value of EcoStruxure

RM AirSeT is a Connected Product of EcoStruxure™ Grid – part of Schneider Electric’s open, interoperable IoT-enabled system architecture and platform.

EcoStruxure delivers enhanced value around safety, reliability, efficiency, sustainability, and connectivity for our customers. It leverages advancements in IoT, mobility, sensing, cloud, analytics, and cybersecurity to deliver innovation at every level, bringing efficient asset management, 24/7 connectivity, and increased safety.

This unified approach provides more value than a traditional network of isolated devices and is covered by end-to-end cybersecurity.



# Monitor RM AirSeT's health for greater efficiency and longer life

RM AirSeT features the high efficiency you have come to expect from a Schneider Electric switchgear.

The health status of the device can be monitored via wireless sensor-based technology and digital tools. That's why condition-based maintenance takes place at the right time, meaning fewer downtime risks and costs.

Condition monitoring tools for asset management enable:



Thermal monitoring



Environmental monitoring

# Discover extensive connectivity features

RM AirSeT features powerful digital capabilities extending beyond local operation and maintenance.

They enable advanced network management options and allow grid operators to restore power supply faster and remotely.

[Download RM AirSeT catalog](#)

### Network management

TVDA factory tested PowerLogic T300, all-in-one RTU+FPI+PSU.

### QR codes

Enable quick connection to RM AirSeT and access to the digital logbook, manuals, and support – saving operational time and effort.

### Thermal & environmental monitoring

Faulty connection detection via TH110 wireless thermal sensors. Fast-aging prevention via CL110 wireless condensation sensors. Thermal sensors help detect temperature anomalies, prompting diagnosis of potential faults – reducing downtime and fire risks.

### Current sensors

On cable bushings (up to cl 0.5s).



### Operation

Smart-ready voltage detection VDIS or VPIS.

### Protection relays

VIP4x self-powered/PowerLogic P1 auxiliary-powered, allowing auto-reclosing, logic selectively directional protection.

### Asset management

Through smart-ready voltage sensors, LPVT.

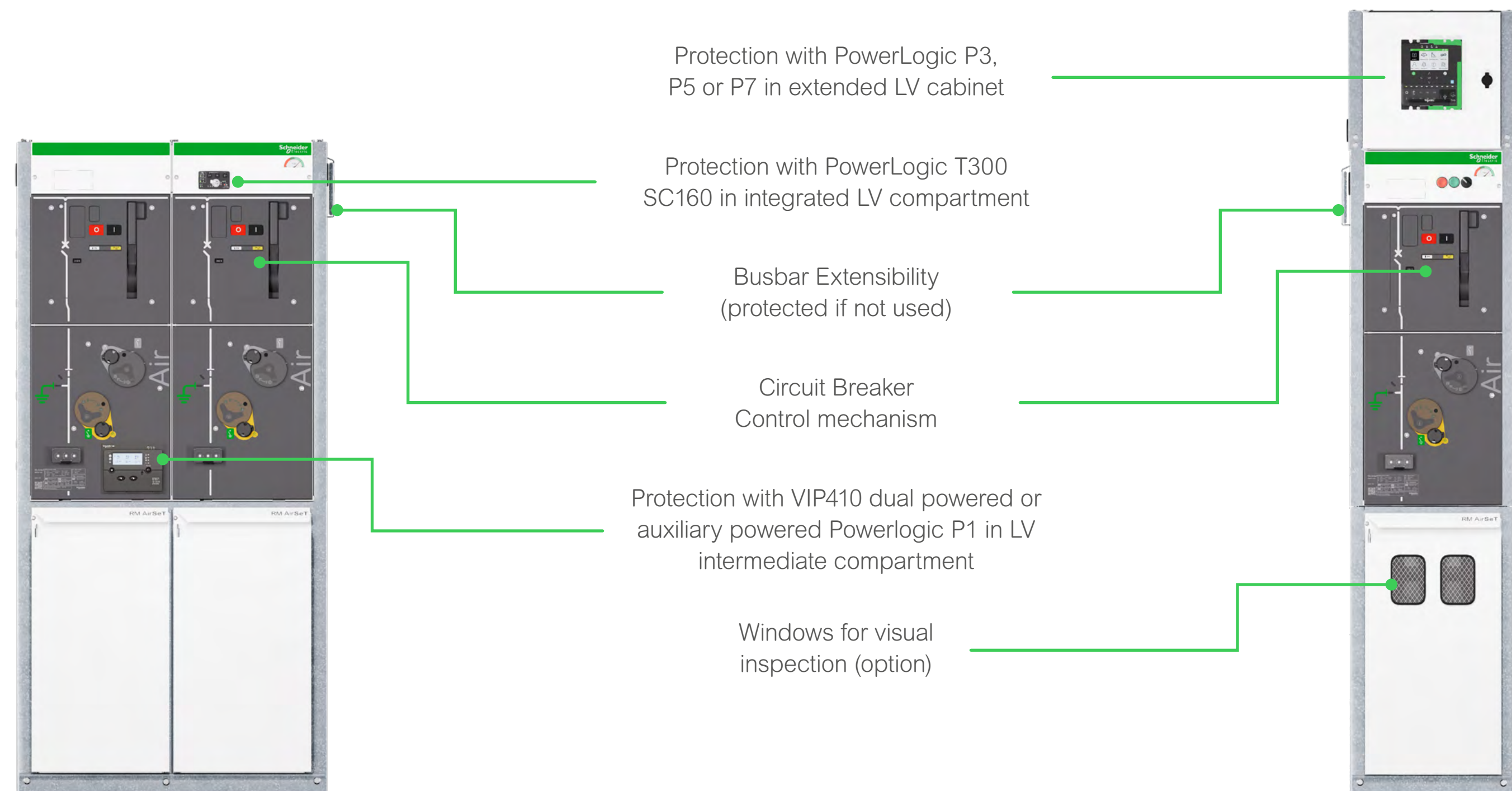
### Current sensors

Split type on cables.

# Right-sized solutions for smart distribution

Maximize your resources with RM AirSeT. By offering single-module units with seamless extensibility, we've eliminated the limitations of traditional fixed-block designs. This agile approach ensures your investment and your floor space are always optimized, providing a versatile solution that evolves in perfect sync with your network.

Example of RM AirSeT RE-BB with 2 functional units and DE-B with 1 functional unit



# Ready for a smarter grid

RM AirSeT is as smart as it is sustainable, with the PowerLogic T300 remote terminal unit (RTU) integration providing an easy way to digitize your substation to become a future-ready smart grid.

## PowerLogic T300 is:

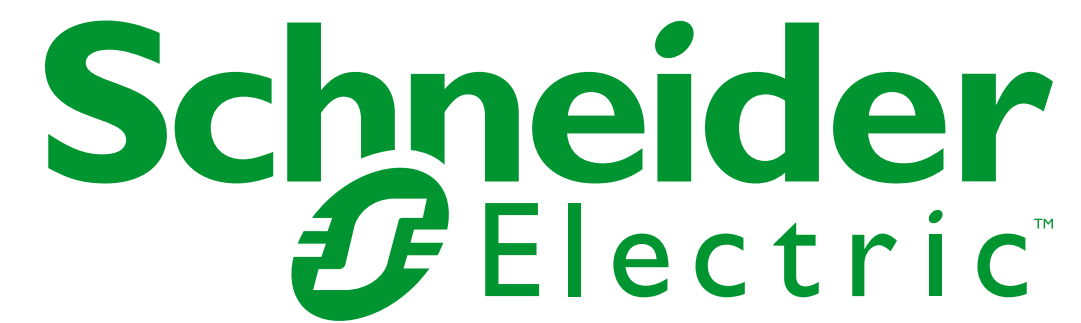
- **Efficient:** An integrated all-in-one solution for MV control and monitoring, designed to withstand harsh environments, and easy to connect.
- **Powerful:** Able to manage up to 24 RM AirSeT functions, three transformers, and numerous relays and sensors. It enables condition-based maintenance and is scalable and future-ready.
- **Simple and flexible:** The device is compact, and features plug-and-play for easy installation.
- **More secure:** Helps secure operations and features built-in cybersecurity.



# Technical specifications

	12kV	24kV
Generalities	GIS – 630 A- 20 kA 3 s or 1 s – IEC 62271-200	
Insulation and disconnection	Pure air preserved from ambient conditions	
Tightness and degree of protection	IP67 stainless steel – sealed pressure system – <b>40-year life expectancy</b> IP4X indoor front access or IP54 outdoor enclosure	
Filling pressure	0.4 bar rel.	1.5 bar rel.
Breaking	Vacuum interrupters inside the tank (switch or CB)	
Internal arc	Type tested: Class A – accessibility: FLR	
Installation and operation	Similar size – same procedures: Three-position switch disconnecter/switch fuse/circuit breaker	
Digital architectures	Tested validated documented architectures: direct connectivity to DMS or kits for later upgrade	





To find out more about  
the **RM AirSeT** switchgear, visit:

[se.com/rmairset](https://se.com/rmairset)



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