# Innovation at every level

#### 1- Low voltage cabinet

- a wide cabinet at man tall height,
- the Sepam protection and control unit,
- the low voltage components,
- the thermal diagnosis module.

#### 2- Busbar compartment

- high quality, flat copper bars,
- easy accessibility from the front, rear and top.

#### reduce the maintenance time, separate compartment, with

# metallic shutters.

3-V.T. compartment ■ fully withdrawable VTs to

#### 4- Cable compartment

- enough space for cabling & instruments, earthing switch with making capacity,
- rear access for easy installation &
- maintenance.

#### 5- Circuit breaker compartment

- rolling on floor withdrawable trolley, ■ vacuum or SF6 circuit breakers,
- lever-type propulsion mechanism for racking
- in-out,
- interlocks to anchor the withdrawable part.

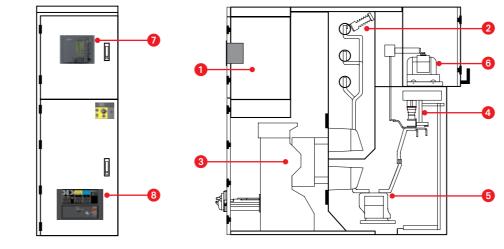


	Busbar	Cable &CTs	Circuit breaker	VTs
esign	fixed	fixed	withdrawable	withdrawable
ccessibility	with tools	with tools	interlocked	interlocked
artitioning	metallic partition	metallic partition	metallic partition	metallic partition

## The range of functional units

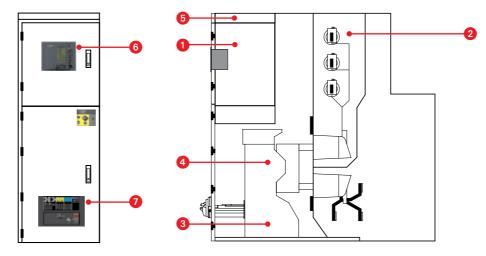
#### Incomer | feeder

- 1 low voltage compartment
- 2 busbar compartment
- 3 rolling-on-floor C.B. (Evolis / LF)
- 4 earthing switch
- 6 block CT 6 withdrawable VT
- MV protection relay, Sepam
- 8 racking mechanism



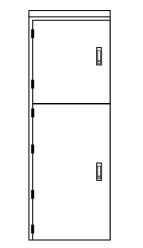
### Coupler

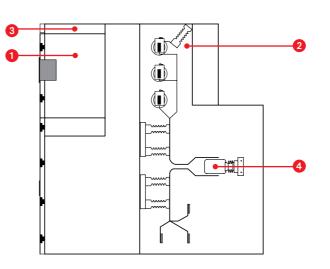
- 1 low voltage compartment
- 2 busbar compartment
- 3 removable part compartment 4 removable part (Evolis / LF circuit breaker)
- 5 low voltage cable routing duct
- 6 MV protection relay, Sepam
- 7 racking mechanism



#### Riser

- 1 low voltage compartment
- 2 busbar compartment
- 3 low voltage cable routing duct
- 4 LPCT (low power current transducer)





As standard specifications

and designs change from

time to time, please ask for

confirmation of the information

given in this publication.

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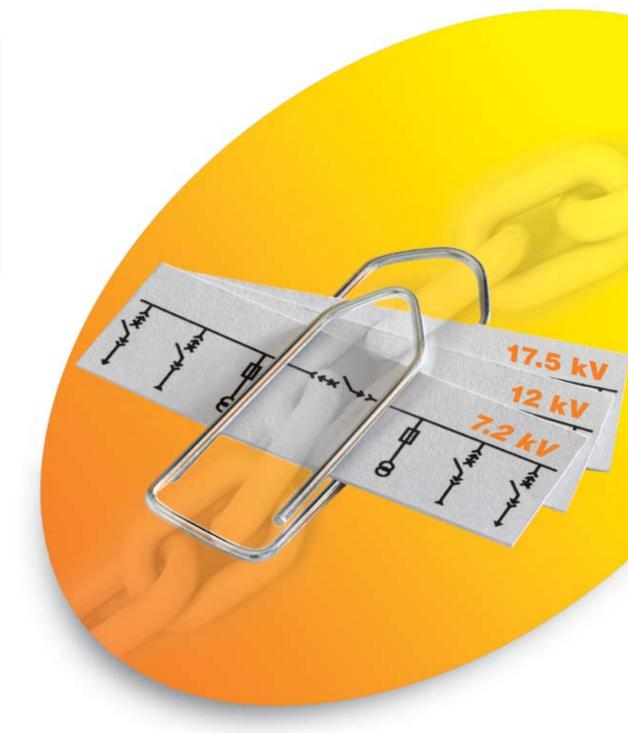
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# **RONEX**

Medium voltage switchgear with rolling on floor withdrawable circuit breaker

1 to 17.5 kV











#### *Infrastructure*

#### optimizing availability, and operating costs.

- Our solutions, products and services cover: water transmission and treatment.
- air and sea ports,
- telecommunication infrastructure,
- multi-site remote management.

#### Energy

#### optimizing the production, distribution and sale of electricity.

Our solutions, products and services cover:

- power generation and distribution,
- energy metering and quality,
- protection, supervision and monitoring,
- management of electrical power.

#### **Industry**

optimizing productivity, flexibility, safety & traceability.

Our products and services solutions cover:

- oil and gas industries,
- petrochemicals industry,
- electrical supply and distribution,
- single or multi-site production data management.

#### Buildings

optimizing comfort, safety, communication & operating costs.

Our products and services solutions cover:

- electrical supply and distribution,
- utilities management: lighting, air conditioning, elevators & access control,
- data exchange: Voice-Data-Image, power line carrier technology & radio,

■ multi-site remote management for office buildings, shopping malls and stores, industrial buildings, hotels, hospitals and schools, etc.

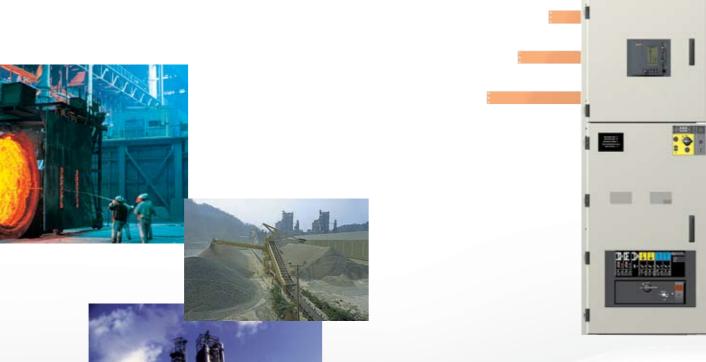
## The answer to all your needs

#### **RONEX** a universal solution

**RONEX** is part of the global family NEX being rolling on floor with the global range of NEX-ROF, this product is the result of experience acquired worldwide and provides you with a high level of safety and reliability. It is particularly suitable for the MV section of HV/MV substations and high power MV/MV substations. Ronex meets MV substation supply needs for all applications.

**RONEX** is an indoor switchgear assembly that provides maximum user safety. It is intended to meet all electrical distribution needs from 1 to 17.5kV and incorporates a set of innovative solutions designed using proven techniques:

- high-performance breaking devices (SF6 or Vacuum),
- digital protection and control system,
- a wide range of cubicles designed and tested to meet all requirements.



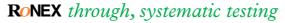


#### **RONEX** ISO 9001 certified quality

Each Schneider Electric site has a functional department whose main mission is to check quality and ensure compliance with the standards. This system gives you the guarantee of consistent quality, whatever the manufacturing site, anywhere in the world.

The strict, measured implementation of the system has been acknowledged by an independent organization: the AFAQ (French Quality Assurance Association). **RONEX** quality system for design and manufacturing is certified according to the requirements of the ISO 9001: 2000 quality assurance standards.

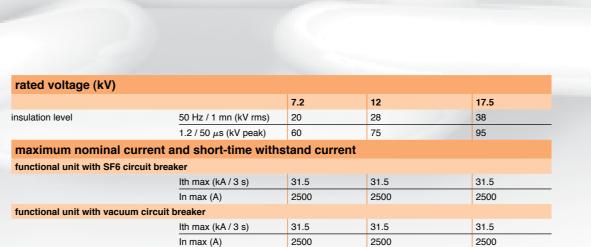




During manufacturing, each cubicle undergoes systematic routine testing aimed at checking quality and conformity:

- testing of circuit breaker and contactor tightness,
- measurement of closing and opening speeds,
- measurement of operating torque,
- dielectric testing.
- testing of safety systems and interlocks,
- testing of low voltage components,
- conformity of drawing and diagrams.

The results are recorded and initiated by the quality control department on the test certificate for each device.





#### RONEX, high-level protection of people

**RONEX** is designed to protect the complete system against the risk of internal fault as per IEC 62271-200 through its comprehensive features

- Earthing switch with making capacity
- Temperature monitoring (1)
- Pressure relief flaps.
- High durability in polluted environment.
- Rapid fault-clearance by Arc limitor (1)
- Racking behind door (1)
- 4-sided internal arc protection (1)



Since the **RONEX** range comprises, each compartment is isolated from the others by earthed, metal partitions. This means that servicing can be carried out in one of the compartments while the others are still energized. The earthing switch has full making capacity and provides total user protection in the event of closing on a dead short-circuit.



#### **RONEX**, simple and effective solutions

A feature to have a system enabling the detection of internal arcing and disconnecting of power supply in order to limit the duration of the fault. The system will incorporates an electro-mechanical fail-safe trip system, located on the cubicle flaps.

This unit transmits information to SEPAM to give the circuit breaker upstream of the fault the opening order.

#### **RONEX**, reduced maintenance

Specially designed for RoNEX, an innovative thermal diagnosis system continuously monitors the temperature rise, using optical fibres and sensors installed at the heart of the sensitive areas:

- monitoring of temperature rise in busbars, cable connectors, switchgear, indication of the fault zone,
- 2 trip thresholds are available.

This system reduces the probability of failure and reduces maintenance

(1) Optional