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Ringmaster selection guide 14
Ringmaster is the ideal choice for all your MV applications. From simple transformer protection, or sectionalising with remote control, to multi-panel metered consumer switchboards, the Ringmaster range from Schneider Electric offers a solution.

Quality engineering for extreme climates enables Ringmaster to provide flexibility for any location.

Covering a wide range of options with an indoor and outdoor IP54 design and ratings up to 13.8 kV, 630 A and 21 kA, Ringmaster has proved successful in markets around the world.

**Product advantages**

Simple, clear operation combined with compact size, high functionality and reliability extends the applications of the Ringmaster range.

**Safety to personnel**
Fully certified internal arc design.

**Indoor/outdoor design**
No need for expensive switchrooms.

**Self powered protection**
Not reliant on costly battery chargers.

**Compact**
Reduced dimensions, gives reduced civil costs.

**Virtually maintenance free**
Low lifetime costs.

**Modular design**
Quick, simple & easy to install.

**Proven design**
Assured consistent quality.
ISO 9001 quality certification.

**Environmental**
Manufactured to ISO 14001 environmental standards.
A variety of different panel types are available for each unit within the range, together with a number of optional accessories enabling Ringmaster to satisfy the most complex system specification.

A multitude of configurations

Free standing, non-extensible, cable connected ring main unit.

Transformer mounted, non-extensible ring main unit, incorporated in a packaged substation.

Free standing, extensible cable connected ring main unit

Transformer mounted, extensible ring main unit, incorporated in a packaged substation.

Free standing, non-extensible circuit breaker.

Cable connected extensible switchboard.
General characteristics
- Gas pressure indicator as standard
- Anti-reflex operating handle with facilities for electrical operation
- Interlocked MV cable test access (no need to remove cable terminations or use loose earthing devices)
- Integral self-powered protection with TFL, adjustable curve & relay options
- IP54 enclosure
- Simple to follow mimic providing user-friendly operation
- Earth screened cast-resin gas module
- Range of dry type metering units
- Mechanical tripped on-fault indication
- Resin encapsulated busbars in air bus chamber for extensible version
- Direct coupling to transformers or cable connection.

Standard and quality assurance
Manufactured to BS EN ISO 9001.
Ringmaster meets the following standards and has obtained approval from the UK Electricity Association: IEC 62271-100, IEC 60265, IEC 62271-200, BS EN 60265 and ENATS 41-36.
VIP 300 - the leading protection relay providing a wide range of selectivity and quality of supply

The VIP 300 is a three phase overcurrent and earth fault protection device, providing protection for networks and equipment. Being an integral part of the highly successful Ringmaster range, its main function is to detect phase and earth faults within the network and to trip the circuit breaker.

Flexibility

The relay provides for a wide range of protection settings for most applications. The IDMT characteristics employed for both the overcurrent and earth fault elements can be easily adjusted to provide discrimination with upstream MV and downstream LV protective devices. Fast power-up of the VIP 300 also provides immediate protection and can detect faults instructing the CB to trip in less than 40 ms.

Reliability

The relay has a self monitoring device and diagnostic routine that constantly checks the operation of the relay automatically.

Self-powered reliability

The VIP 300 protection relay is a self powered microprocessor based device which requires no external DC power source or batteries, making it the ideal solution for location in remote areas where auxiliary supplies are not readily available.

Ease of use

VIP 300 has improved operation and control with the relay settings being clearly displayed on the front panel. Manual reset flags show separate ‘tripped on fault’ for either phase or earth fault conditions.

Testing

The VAP 6 hand held test unit, is available to provide a simple check of the integrity of the relay and can also be used to perform trip tests on the circuit breaker. The circuit breaker “trip inhibit” facility allows the relay to be tested without tripping the circuit breaker. Secondary injection can be carried out using conventional test equipment.

The VIP 30 and VIP 35 are self-powered devices, requiring no external DC power source or batteries. They are designed for use in distribution networks providing protection for transformers.
Sepam series 10 is a high-quality protection relay that represents the most cost-effective solution available for essential protection functions. Highly ergonomic, it is easy to install and set up.

**Sepam series 10 specifics**

Sepam series 10 monitors phase and/or earth-fault currents. Three models meet a wide range of different needs:

- **N**: Sepam series 10 N protects against earth faults
- **B**: Sepam series 10 B protects against overloads, phase-to-phase faults and earth faults
- **A**: Sepam series 10 A provides the same functions as Sepam series 10 B, with also a communication port, more inputs and outputs, and additional protection and monitoring functions.

**Simplicity**
- Easy operation - screen, keys, pictograms, etc., good ergonomics
- Fast set-up - installation, wiring, parameter setting directly on the relay without a PC.

**Reliability**
- Guaranteed protection of life and property - high-quality product, compliance with standards, continuous self-test
- Safety of operating personnel - all accessible parts are made of insulating materials, light and compact product with no sharp edges
- Environmentally friendly - compliance with the European RoHS directive, low energy consumption, manufacture in factory certified ISO 14001 and recyclable to more than 85%.

**Productivity**
- Attractive, cost-effective product - easy to understand, no unnecessary complications, suited to user needs
- Improved availability of electricity - precise tripping set points and times, logic discrimination, detailed information made spontaneously available to operator following tripping.
- Reduced maintenance costs - continuous self-tests to extend periods between maintenance.

**Functions ANSI code**

<table>
<thead>
<tr>
<th>Functions</th>
<th>ANSI code</th>
<th>Sepam series 10</th>
</tr>
</thead>
<tbody>
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<td>Protectors</td>
<td></td>
<td></td>
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<tr>
<td>Earth-fault protection</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standard</td>
<td>50N/51N</td>
<td>□□□</td>
</tr>
<tr>
<td>Sensitive</td>
<td></td>
<td>□□□</td>
</tr>
<tr>
<td>High sensitivity</td>
<td></td>
<td>□□□</td>
</tr>
<tr>
<td>Phase-overcurrent protection</td>
<td>50/51</td>
<td>■</td>
</tr>
<tr>
<td>Thermal overload protection</td>
<td>49RMS</td>
<td>■</td>
</tr>
<tr>
<td>Logic discrimination</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cold load pick-up</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Logic discrimination</td>
<td>Blocking send</td>
<td>68</td>
</tr>
<tr>
<td>Logic discrimination</td>
<td>Blocking reception</td>
<td></td>
</tr>
<tr>
<td>External tripping</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Earth-fault current</td>
<td></td>
<td>■</td>
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<tr>
<td>Phase currents</td>
<td></td>
<td>■</td>
</tr>
<tr>
<td>Peak demand currents</td>
<td></td>
<td>■</td>
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<tr>
<td>Control and supervision</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Circuit breaker tripping and lockout</td>
<td>86</td>
<td>■</td>
</tr>
<tr>
<td>Tripping indication</td>
<td></td>
<td>■</td>
</tr>
<tr>
<td>Trip-circuit supervision</td>
<td></td>
<td>■</td>
</tr>
<tr>
<td>Remote circuit-breaker control</td>
<td></td>
<td>■</td>
</tr>
<tr>
<td>Record of last fault</td>
<td></td>
<td>■</td>
</tr>
<tr>
<td>Record of last five events</td>
<td></td>
<td>■</td>
</tr>
<tr>
<td>Communication</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Modbus</td>
<td></td>
<td>■</td>
</tr>
<tr>
<td>IEC 60870-5-103</td>
<td></td>
<td>■</td>
</tr>
<tr>
<td><strong>Inputs/Outputs (number)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Earth-fault current inputs</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Phase-current inputs</td>
<td>2 or 3</td>
<td>3</td>
</tr>
<tr>
<td>Logic relay outputs</td>
<td>3</td>
<td>7</td>
</tr>
<tr>
<td>Logic inputs</td>
<td>-</td>
<td>4</td>
</tr>
<tr>
<td>Communication port</td>
<td>-</td>
<td>1</td>
</tr>
</tbody>
</table>

■ Function available.
□ Function availability depends on the Sepam model.
Presentation

Sepam series 10
User-machine interface and dimensions

1. Back-lit display
2. Status LEDs
3. Fault LEDs
4. Button for Sepam reset and maximeter reset
5. Battery housing (Sepam series 10 A)
6. Protection cover for settings
7. Identification zone
8. Lead-seal accessory
9. Button for setting selection and confirmation
10. Buttons for selection in a menu
11. Button to cancel entry
12. Buttons for setting adjustments
13. Button for menu selection and LED test
14. Menu pictograms
15. Cursor for menu selection

User-machine interface

Dimensions

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Applicable to</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>series 10 A•••</td>
<td>180 x 140 x 90 mm / 7.09” x 5.51” x 3.54”</td>
</tr>
<tr>
<td>Weight depending on number of current inputs</td>
<td>series 10 N 1••</td>
<td>1.15 kg/2.53 pounds</td>
</tr>
<tr>
<td></td>
<td>series 10 B 3••</td>
<td>1.26 kg/2.78 pounds</td>
</tr>
<tr>
<td></td>
<td>series 10 A 4••</td>
<td>1.46 kg/3.22 pounds</td>
</tr>
<tr>
<td>Type of battery</td>
<td>series 10 A•••</td>
<td>1/2 AA Li 3.6 V</td>
</tr>
</tbody>
</table>
Presentation

Sepam series 10
Protection functions

Earth-fault protection (ANSI 50N-51N)

Earth-fault protection detects overcurrents caused by phase-to-earth faults. It uses measurements of the fundamental component of the earth-fault current.

2 independent set points (Io> and Io>>)
- The low set point (Io>) offers definite time (DT) or IDMT settings with various types of standardized curves (IEC, IEEE, RI) and it is possible to enable an IDMT timer hold.
- The high set point (Io>>) offers only the definite time (DT) setting. The minimum setting results in instantaneous operation (ANSI 50).

Depending on the required level of sensitivity, there are three types of Sepam relays.

<table>
<thead>
<tr>
<th>Sensitivity</th>
<th>Sensor</th>
<th>Setting range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>3 phase CTs or 1 earth-fault protection CT, with rated primary current Ino</td>
<td>0.1...24 Ino</td>
</tr>
<tr>
<td>Sensitive (1)</td>
<td>3 phase CTs or 1 earth-fault protection CT, with rated primary current Ino</td>
<td>0.01...2.4 Ino</td>
</tr>
<tr>
<td>High sensitivity</td>
<td>Special core balance CSH or GO, with ratio of 470/1</td>
<td>0.2...240 A primary, i.e. 0.0004...0.5 Ino</td>
</tr>
</tbody>
</table>

(1) Setting not available with Sepam series 10N.

Phase-overcurrent protection (ANSI 50-51)

Phase-overcurrent protection detects overcurrents caused by phase-to-phase faults. It uses the measurements of the fundamental component of currents drawn from two or three phase CTs, with a secondary rating of 1 A or 5 A.

2 independent set points (> and >>)
- The low set point (>) offers definite time (DT) or IDMT settings with various types of standardized curves (IEC, IEEE, RI) and it is possible to enable an IDMT timer hold.
- The high set point (>>) offers only the definite time (DT) setting. The minimum setting results in instantaneous operation (ANSI 50).

Thermal image overload protection (ANSI 49 RMS)

This protection function is used to protect cables and HV/LV transformers against overloads, based on measurement of the current drawn.

The function is based on a thermal model which calculates the temperature rise from current measurements. The current measured is an RMS 3-phase current which takes into account harmonics up to number 13.

Two protection settings
- The continuous maximum permissible current setting which corresponds to the maximum thermal withstand of the protected devices (the continuous permissible current corresponds to a temperature rise of 100%).
- The setting for the equipment heating and cooling time constant.
Protection function 50/51, 50N/51N

**Tripping curve**
- DT: Definite time
- SIT/A: IEC standard inverse
- VIT/B: IEC very inverse
- LTI/B: IEC long-time inverse
- EIT/C: IEC extremely inverse
- MT/D: IEEE moderately inverse
- VI/E: IEEE very inverse
- EI/F: IEEE extremely inverse
- RI

<table>
<thead>
<tr>
<th>I&gt;, I&gt;&gt; set points</th>
<th>DT curve</th>
<th>0.1...24 In (minimum: 1 A)</th>
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<td>IDMT curves</td>
<td>0.1...2.4 In (minimum: 1 A)</td>
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<tr>
<td>Accuracy</td>
<td>±5% or ±0.02 In</td>
<td></td>
</tr>
<tr>
<td>Drop out/pick up ratio</td>
<td>95%</td>
<td></td>
</tr>
<tr>
<td>Transient overshoot</td>
<td>&lt; 10%</td>
<td></td>
</tr>
</tbody>
</table>

**Io>, Io>> set points**
- DT curve
  - Standard version
    - Setting range: 0.1...24 Ino (minimum: 1 A)
  - Sensitive version
    - Setting range: 0.01...2.4 Ino (minimum: 0.1 A)
  - High sensitivity version
    - Rating 0.2...24 A
      - Setting range: 0.0004...0.05 Ino (Ino = 470 A)
      - Rating 2.0...240 A
      - Setting range: 0.004...0.5 Ino (Ino = 470 A)
- IDMT curves
  - Standard version
    - Setting range: 0.2...2.4 Ino (minimum: 1 A)
  - Sensitive version
    - Setting range: 0.01...0.24 Ino (minimum: 0.1 A)
  - High sensitivity version
    - Rating 0.2...24 A
      - Setting range: 0.0004...0.005 Ino (Ino = 470 A)
      - Rating 2.0...240 A
      - Setting range: 0.004...0.05 Ino (Ino = 470 A)
- Accuracy | ±5% or ±0.02 Ino |
- Drop out/pick up ratio | 95% |
- Transient overshoot | < 10% |

**Time delay**
- DT curve | 0.05...300 s |
- IEC, RI curves | TMS: 0.02...2 (step: 0.01) |
- IEEE curve | TD: 0.5...15 (step: 0.1) |
- Accuracy | DT curve: ±2% or ±20 ms |
| IDMT curves: ±5% or ±20 ms |
- Timer hold | Selection: ON/OFF. Common setting for I> and Io> set points |
- Accuracy | ±2% or ±20 ms |

**Characteristic times**
- Operation time | < 40 ms at 2 x set point (typically 25 ms) |
- Overshoot time | < 40 ms at 2 x set point |
- Reset time | < 50 ms at 2 x set point |

Protection function 49RMS

**Set points**
- Alarm set point | Setting range 50...100% of permissible thermal capacity |
- Trip set point | Setting range 0.1...2.4 In (value of permissible current) |
- Accuracy | ±5% or ±0.02 In |
- Drop out/pick up ratio | 95% |

**Time delay**
- Time constant | Setting range 1...120 min in 1 min steps |
- Tripping-time accuracy | 12% or ±2 s |
Ringmaster and T200E

Control your Ringmaster from a remote position

The Schneider Electric Easergy T200E telecontrol cabinet, which links the Ringmaster to a control centre’s automation system, allows you to manage a secondary distribution network from a remote point. Network faults can be identified and isolated and the network reconfigured in seconds without manual intervention, which substantially improves the quality of supply.

The small and compact Easergy T200E can be easily mounted directly onto the Ringmaster, saving installation costs and valuable floor space.

Telecontrol equipment can be added any time after installation. This makes Ringmaster RMU’s even more cost-effective to install, since a control system can be bought separately if needed at a later date. Other RTUs can also be integrated if required.
Continuity of service guaranteed by an overall telecontrol offer

Schneider Electric offers you a complete solution, including:
- the Easergy T200 E telecontrol interface,
- MT switchgear that is adapted for telecontrol.

Easergy L500, a low cost solution to immediately improve your SAIDI\(^{(1)}\)

\(^{(1)}\) SAIDI: system average interruption duration index

Easergy L500 is a SCADA providing all the functions needed to operate the MV network in real time
- Pre-configured with Easergy range products:
  - MV/LV substations equipped with T200 E or Flair 200C
  - overhead line equipped with Flite 116/G200
- Broad range of transmission supports: Radio, GSM, GPRS, PSTN, LL, FO.

Advantages
- Simple implementation:
  - one to two weeks only for 20 MV/LV substations
  - configuration, training and handling within a few days
- Short return on investment
- Simple and fast evolutions by operations managers
- Service quality and operations rapidly improved.
Key to product references

Ringmaster is available as standard panel types, allowing easy selection and specification. The product references are made up as follows:

- **R** Ring main unit
- **C** Circuit breaker
- **S** Switch
- **N** Non-Extensible
- **E** Extensible
- **MU** Metering unit

Example: CN2-T1/16 = circuit breaker, non extensible, 200 A, 16 kA fault rating.

The Ringmaster catalogue allows easy selection and specification, based on a broad range of worldwide applications. Included in this publication is:
- Panel type specifications
- Details of optional accessories
- Schematic diagrams
- Installation drawings.

Accessories

Accessories for the Ringmaster range are supplied either fitted or loose, where stated enabling simple panel configuration on site. Details of accessories are contained within the panel type pages.

General arrangement drawings

General arrangement drawings are given for each panel type. This allows you to quickly size up switchrooms and calculate external connections at the pre-order stage.

Need more information?

If your requirements are not listed, please contact your local Schneider Electric representative, or contact us on:

Tel: +44 (0) 113 290 3500
Email: MVSswitchgearGB@schneider-electric.com

Electronic catalogue requests

Electronic copies of this selection guide are available free of charge upon request. For this, and other MV literature, please email your full contact details to Email: MVSswitchgearGB@schneider-electric.com
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<td><strong>Non-extensible ring main units 630 A</strong></td>
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<td>RN6c-T1, RN6c-T25</td>
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<td><strong>Extensible ring main units</strong></td>
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<td>Specification</td>
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<tr>
<td>Accessories</td>
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</tr>
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<td><strong>Extensible ring main units 200 A</strong></td>
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</tr>
<tr>
<td>RE2c-T1, RE2c-T2, RE2c-T3, RE2c-T4, RE2c-T25</td>
<td></td>
</tr>
</tbody>
</table>
Non-extensible ring main units

## Specification

### Environment
- Indoor / outdoor
- IP54
- Transformer mounted
- Freestanding

### Ratings
- Busbars 630 A
- Circuit breaker normal rated current 200 A
- Circuit breaker normal rated current 630 A
- Switch normal rated current 630 A
- 12 kV 16 kA 3 seconds 75 kV BIL
- 13.8 kV 21 kA 3 seconds 95 kV BIL
- Ring switch cable earth switch 16 kA 3 seconds
- Ring switch cable earth switch 21 kA 3 seconds
- Circuit breaker earth switch 3.15 kA

### Mechanism
- Independent manual
- Provision for motorised mechanism LH ring switch
- Provision for motorised mechanism RH ring switch
- Provision for motorised mechanism circuit breaker

### Protection & control - circuit breaker
- CT’s ratio - 100/50/5 A class X
- CT’s ratio - 200/1 A class X
- CT’s ratio - 200/100/1 SP20
- CT’s ratio - 500/200/1 A class X
- CT’s ratio - 800/400/1 A class X
- CT’s ratio - 800/400/1 SP20
- Overcurrent & earth fault CT operated trip coils - TFL
- Overcurrent & earth fault CT operated trip coils - glass TFL
- Overcurrent relay - VIP 30
- Overcurrent relay - VIP 35
- IDMT overcurrent & earth fault relay - VIP 300
- IDMT Relay Sepam 10
- Multivoltage shunt trip coil (see accessories page 17)

### Indication
- Mechanical ON/OFF
- Mechanical EARTH/MAIN
- VPIS indication 3.3 - 13.8 kV
- Gas pressure indicator (-25°C to +55°C)
- RSW aux contacts 1NO & 1NC

### Test facility
- Integral ring cable test facility
- Integral circuit breaker test facility

### Standard features
- Operating handle
- Cables (see available cable kit accessories)

### Code
- Standard feature
- Optional feature

### Order codes
- 12 kV, 16 kA, 75 kV BIL, 0.55bG
- 13.8 kV, 21 kA, 95 kV BIL, 0.8bG
- General arrangement drawing - transformer mounted
- General arrangement drawing - freestanding
- Schematic diagram - TFL
- Schematic diagram - VIP 30
- Schematic diagram - VIP 35
- Schematic diagram - Sepam 10

### Schematic diagrams
- Pages 104
- Pages 105
- Pages 106
- Pages 107
- Pages 108-111
- Pages 108-111

### Key
- Standard feature
- Optional feature
### Ring main units

#### Non-extensible ring main units

#### Accessories

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<tr>
<th>Kit no.</th>
<th>RN2c-T1</th>
<th>RN2c-T2</th>
<th>RN2c-T3</th>
<th>RN2c-T4</th>
<th>RN2c-T5</th>
<th>RN2c-T25</th>
<th>RN6c-T1</th>
<th>RN6c-T25</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>TFL</td>
<td>VIP 300</td>
<td>VIP 30</td>
<td>VIP 35</td>
<td>Glass TFL</td>
<td>Sepam 10</td>
<td>VIP 300</td>
<td>Sepam 10</td>
</tr>
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<td><strong>Cable Kits</strong></td>
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<tr>
<td>Circuit breaker cable box</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
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<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>RMR-A/F47</td>
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<tr>
<td>Circuit breaker cable box with integral cable test facility</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>RMR-F325</td>
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<tr>
<td>Gland plate 1 x 3C</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
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<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>RMR-A316</td>
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<tr>
<td>Gland plate 3 x 1C</td>
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<td>☐</td>
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<td>☐</td>
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<td>RMR-A319</td>
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<tr>
<td>Small gland plate 1 x 3C</td>
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<td>☐</td>
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<td>Blank aluminium gland plate</td>
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<tr>
<td>Brass wiping gland 1 x 3C</td>
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<td>Brass wiping gland 3 x 1C</td>
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<td>Small brass wiping gland 1 x 3C</td>
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<td>Tubular gland 1 x 3C</td>
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<td>CESS gland</td>
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<td>CESS gland plate 1 x 3C</td>
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<td>Raw extension box for 2 x 3C cables (left hand)</td>
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<td>Extension trunking (to clear transformer radiators)</td>
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<td>Shunt trip coil (20-250 V DC, 110-250 V AC) TLF</td>
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<td>Shunt trip coil (20-250 V DC, 110-250 V AC) VIP</td>
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<td>Ring switch cable VPIS indication (3.3-13.8 kV)</td>
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<td>Circuit breaker cable VPIS indication (3.3-7.2 kV)</td>
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<td>VAP 6 test unit for VIP 300/30/35</td>
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<td>Emergency trip push button</td>
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<td>Gas pressure switch for remote indication only</td>
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</table>

Key: ■ Standard feature □ Factory fitted accessory ◊ Loose accessory, assembled on site
## Ring main units

### Non-extensible ring main units

#### Accessories

<table>
<thead>
<tr>
<th>Mechanical interlocks</th>
<th>RN2c-T1</th>
<th>RN2c-T2</th>
<th>RN2c-T3</th>
<th>RN2c-T4</th>
<th>RN2c-T5</th>
<th>RN6c-T1</th>
<th>RN6c-T25</th>
<th>Kit no.</th>
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<tr>
<td></td>
<td>TFL</td>
<td>VIP 300</td>
<td>VIP 30</td>
<td>VIP 35</td>
<td>Glass TFL</td>
<td>Sepam 10</td>
<td>VIP 300</td>
<td>Sepam 10</td>
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<tr>
<td>Circuit breaker - key free, EARTH ON</td>
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<td>Circuit breaker - key free, MAIN OFF</td>
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<tr>
<td>Switch - key free, SWITCH OFF LH</td>
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</tbody>
</table>

N. B. specify lock symbol at time of ordering
(3 digits max) not available with motor mechanisms

#### Earth fault passage indication (choose provision kit and an EFPI required if not using Easergy T200E)

| Phase & earth fault provision for Easergy T200E | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ |
| EFPI provision kit, inside cable box | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | RMR-F310 |
| EFPI provision kit, CT outside cable box | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | RMR-A304 |
| EFPI provision kit, inside cable box, top entry | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | RMR-A305 |
| EFPI provision kit, outside cable box, top entry | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | RMR-A306 |
| Bowden “RR” EFPI and CT | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | RMR-A309 |
| Bowden STD EFPI type NB | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | RMR-A422 |
| Bowden LV reset EFPI type NB1 | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | RMR-A277 |
| Bowden LV reset & alarm type NB2 | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | RMR-A278 |
| Fundamentals ER ‘FIND’ EFPI and CT | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | ☐ | RMR-A279 |

N. B. above CT’s are ring type for split core - please consult Schneider Electric

Key: ☐ Factory fitted accessory   ☐ Loose accessory, assembled on site
Non-extensible ring main unit
200 A
RN2c-T1

Transformer protection up to 1.6 MVA at 11 kV
Protection & control - CB
Overcurrent and earth fault protection using CT operated trip coils with provision for
time fuse links
Protection CT’s - 100/50/5 A class X
Transformer ratings
See table - page 147
Documents
Transformer mounted installation drawing ref: RMINST-06
Freestanding installation drawing ref: RMINST-05
Schematic drawing ref: RMSCH-01
Environment
Indoor/outdoor
IP54
Ratings
Busbars 630 A
Short time withstand 16/21 kA 3 s
Internal arc 16/21 kA 1 s IAC class AF, A-FLR available on gas enclosure only
Normal current rating 630 A/200 A
Normal rated voltage 12/13.8 kV
Normal rated BIL 75/95 kV
Operating mechanism
Independent manual
Standard features
Ring cable earth switch, 16/21 kA 3 s
Transformer earth switch, 3.15 kA 3 s
Anti-reflex operating handle
Provision for motorised mechanism LH/RH ring switch with plug interface
Indication
Mechanical tripped on fault flag indicator
Mechanical ON/OFF indicator
Mechanical earth/main indicator
Gas pressure indicator
CB auxiliary contacts 1NO 1NC
CB earth position selected 1NO
CB earth ON, 1NO
Test facility
Integral ring switch cable test facility
Cable
Bottom entry up to 1 x 3C 300 mm²
Bottom entry up to 3 x 1C 630 mm²
Accessories - see table, page 17
CB, LH, RH motor kits
LH, RH ring switch indication 1NO 1NC earth On 1NO
Multi voltage shunt trip coil 20–48 V DC - 110–250 V AC/DC
VPIS indication
Inverted cable boxes (indoor only)
Transformer mounting kit
Freestanding tee-off cable box
Order information
<table>
<thead>
<tr>
<th>Code</th>
<th>Rating</th>
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<tbody>
<tr>
<td>RN2c-T1/16</td>
<td>16 kA, 12 kV, 75 kV BIL</td>
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<tr>
<td>RN2c-T1/21</td>
<td>21 kA, 13.8 kV, 95 kV BIL</td>
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</tbody>
</table>
Non-extensible ring main unit
200 A
RN2c-T2

Transformer protection up to 3.5 MVA at 11 kV
Protection & control - CB
Self powered IDMT overcurrent and earth fault relay, VIP 300. In accordance with IEC 60255 and BS142
Protection CT's - 200/1 A class X
Setting range:
☐ Overcurrent: 20-200 A
☐ Earth fault: 2-160 A
Transformer ratings
See table - page 147
Documents
Transformer mounted installation drawing ref: RMINST-06
Freestanding installation drawing ref: RMINST-05
Schematic drawing ref: RMSCH-03
Environment
Indoor/outdoor
IP54
Ratings
Busbars 630 A
Short time withstand 16/21 kA 3 s
Internal arc 16/21 kA 1 s IAC class AF, A-FLR available on gas enclosure only
Normal current rating 630 A/200 A
Normal rated voltage 12/13.8 kV
Normal rated BIL 75/95 kV
Operating mechanism
Independent manual
Standard features
Ring cable earth switch, 16/21 kA 3 s
Transformer earth switch, 3.15 kA 3 s
Anti-reflex operating handle
Provision for motorised mechanism LH/RH ring switch with plug interface
Indication
Mechanical tripped on fault flag indicator
Mechanical ON/OFF indicator
Mechanical earth/main indicator
Gas pressure indicator
CB auxiliary contacts 1NO 1NC
CB earth position selected 1NO
CB earth ON, 1NO
Test facility
Integral ring switch cable test facility
Cable
Bottom entry up to 1 x 3C 300 mm²
Bottom entry up to 3 x 1C 630 mm²
Accessories - see table, page 17
CB, LH, RH motor kits
LH, RH ring switch indication 1NO 1NC earth On 1NO
Multi voltage shunt trip coil 20-48 V DC - 110-250 V AC/DC
VPIS indication
Inverted cable boxes (indoor only)
Transformer mounting kit
Freestanding tee-off cable box
Order information
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<td>RN2c-T2/16</td>
<td>16 kA, 12 kV, 75 kV BIL</td>
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<tr>
<td>RN2c-T2/21</td>
<td>21 kA, 13.8 kV, 95 kV BIL</td>
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</table>
Non-extensible ring main unit
200 A
RN2c-T3

MV transformer protection
Protection & control - CB
Self powered overcurrent relay, VIP 30.
Protection CT’s - 500/200/1 A class X
- Setting range: 500/1 A
- Overcurrent: 20-200 A
- Setting range: 200/1 A
- Overcurrent: 8-80 A

Transformer ratings
See table - page 147

Documents
Transformer mounted installation drawing ref: RMINST-06
Freestanding installation drawing ref: RMINST-05
Schematic drawing ref: RMSCH-02

Environment
Indoor/outdoor
IP54

Ratings
Busbars 630 A
Short time withstand 16/21 kA 3 s
Internal arc 16/21 kA 1 s IAC class AF, A-FLR available on gas enclosure only
Normal current rating 630 A/200 A
Normal rated voltage 12/13.8 kV
Normal rated BIL 75/95 kV

Operating mechanism
Independent manual

Standard features
Ring cable earth switch, 16/21 kA 3 s
Transformer earth switch, 3.15 kA 3 s
Anti-reflex operating handle
Provision for motorised mechanism LH/RH ring switch with plug interface

Indication
Mechanical tripped on fault flag indicator
Mechanical ON/OFF indicator
Mechanical earth/main indicator
Gas pressure indicator
CB auxiliary contacts 1NO 1NC
CB earth position selected 1NO
CB earth ON, 1NO

Test facility
Integral ring switch cable test facility

Cable
Bottom entry up to 1 x 3C 300 mm²
Bottom entry up to 3 x 1C 630 mm²

Accessories - see table, page 17
CB, LH, RH motor kit
LH, RH ring switch indication 1NO 1NC earth On 1NO
Multi voltage shunt trip coil 20-48 V DC - 110-250 V AC/DC
VPIS indication
Inverted cable box (indoor only)
Transformer mounting kit
Freestanding tee-off cable box

Order information

<table>
<thead>
<tr>
<th>Code</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>RN2c-T3/16</td>
<td>16 kA, 12 kV, 75 kV BIL</td>
</tr>
<tr>
<td>RN2c-T3/21</td>
<td>21 kA, 13.8 kV, 95 kV BIL</td>
</tr>
</tbody>
</table>
**Non-extensible ring main unit**

**200 A**

**RN2c-T4**

---

**MV transformer protection**

**Protection & control - CB**
Self powered overcurrent and earth fault relay, VIP 35.
Protection CT’s - 500/200/1 A class X
CH30 core balance CT
- Setting range: 500/1 A
- Overcurrent: 20-200 A
- Earth fault: 25-300 A
- Setting range: 200/1 A
- Overcurrent: 8-80 A
- Earth fault: 10-120 A

**Transformer ratings**
See table - page 147

**Documents**
Transformer mounted installation drawing ref: RMINST-06
Freestanding installation drawing ref: RMINST-05
Schematic drawing ref: RMSCH-15

**Environment**
Indoor/outdoor
IP54

**Ratings**
Busbars 630 A
Short time withstand 16/21 kA 3 s
Internal arc 16/21 kA 1 s IAC class AF, A-FLR available on gas enclosure only
Normal current rating 630 A/200 A
Normal rated voltage 12/13.8 kV
Normal rated BIL 75/95 kV

**Operating mechanism**
Independent manual

**Standard features**
Ring cable earth switch, 16/21 kA 3 s
Transformer earth switch, 3.15 kA 3 s
Anti-reflex operating handle
Provision for motorised mechanism LH/RH ring switch with plug interface

**Indication**
Mechanical tripped on fault flag indicator
Mechanical ON/OFF indicator
Mechanical earth/main indicator
Gas pressure indicator
CB auxiliary contacts 1NO 1NC
CB earth position selected 1NO
CB earth ON, 1NO

**Test facility**
Integral ring switch cable test facility

**Cable**
Bottom entry up to 1 x 3C 300 mm²
Bottom entry up to 3 x 1C 630 mm²

**Accessories - see table, page 17**
CB, LH, RH motor kits
LH, RH ring switch indication 1NO 1NC earth On 1NO
Multi voltage shunt trip coil 20-48 V DC - 110-250 V AC/DC
VPIS indication
Inverted cable boxes (indoor only)
Transformer mounting kit
Freestanding tee-off cable box

**Order information**

<table>
<thead>
<tr>
<th>Code</th>
<th>Rating</th>
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<tbody>
<tr>
<td>RN2c-T4/16</td>
<td>16 kA, 12 kV, 75 kV BIL</td>
</tr>
<tr>
<td>RN2c-T4/21</td>
<td>21 kA, 13.8 kV, 95 kV BIL</td>
</tr>
</tbody>
</table>
Non-extensible ring main unit

200 A
RN2c-T5

Transformer protection up to 1.6 MVA at 11 kV

Protection & control - CB
Overcurrent and earth fault protection using CT operated trip coils with provision for time fuse links (glass fuse link)
Protection CT’s - 100/50/5 A class X

Transformer ratings
See table - page 147

Documents
Transformer mounted installation drawing ref: RMINST-06
Freestanding installation drawing ref: RMINST-05
Schematic drawing ref: RMSCH-01

Environment
Indoor/outdoor
IP54

Ratings
Busbars 630 A
Short time withstand 16/21 kA 3 s
Internal arc 16/21 kA 1 s IAC class AF, A-FLR available on gas enclosure only
Normal current rating 630 A/200 A
Normal rated voltage 12/13.8 kV
Normal rated BIL 75/95 kV

Operating mechanism
Independent manual

Standard features
Ring cable earth switch, 16/21 kA 3 s
Transformer earth switch, 3.15 kA 3 s
Anti-reflex operating handle
Provision for motorised mechanism LH/RH ring switch with plug interface

Indication
Mechanical tripped on fault flag indicator
Mechanical ON/OFF indicator
Mechanical earth/main indicator
Gas pressure indicator
CB auxiliary contacts 1NO 1NC
CB earth position selected 1NO
CB earth ON, 1NO

Test facility
Integral ring switch cable test facility

Cable
Bottom entry up to 1 x 3C 300 mm²
Bottom entry up to 3 x 1C 630 mm²

Accessories - see table, page 17
CB, LH, RH motor kits
LH, RH ring switch indication 1NO 1NC earth On 1NO
Multi voltage shunt trip coil 20-48 V DC - 110-250 V AC/DC
VPIS indication
Inverted cable boxes (indoor only)
Transformer mounting kit
Freestanding tee off cable box

Order information

<table>
<thead>
<tr>
<th>Code</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>RN2c-T5/16</td>
<td>16 kA, 12 kV, 75 kV BIL</td>
</tr>
<tr>
<td>RN2c-T5/21</td>
<td>21 kA, 13.8 kV, 95 kV BIL</td>
</tr>
</tbody>
</table>
Non-extensible ring main unit
200 A
RN2c-T25

Transformer protection up to 3.5 MVA at 11 kV
Protection & control - CB
IDMT overcurrent, earth-fault and thermal overload relay.
Sepam series 10. In accordance with IEC 60255
Power supply 24-48 VDC required
Protection CT’s - 200/100/1 A 5P20
Setting range (200/1):
overcurrent: 20 - 200 A, earth-fault: 2 - 480 A, sensitive earth-fault: 0.2 - 24 A
Setting range (100/1):
overcurrent: 10 - 200 A, earth-fault: 1 - 240 A, sensitive earth-fault: 0.2 - 24 A

Documents (1)
Schematic drawing ref:
RN2c-T25B: RMSCH-43
RN2c-T25BS: RMSCH-44
RN2c-T25A: RMSCH-45
RN2c-T25AS: RMSCH-46

Environment
Indoor/outdoor
IP54

Ratings
Busbar 630 A
Short time withstand 16/21 kA 3 s
Internal arc 16/21 kA 1 s IAC class AF, A-FLR available on gas enclosure only
Normal current rating 630 A/200 A
Normal rated voltage 12/13.8 kV
Normal rated BIL 75/95 kV

Operating mechanism
Independent manual

Standard features
Ring switch cable earth switch, 16/21 kA 3 s
Transformer earth switch, 16/21 kA 3 s
Anti-reflex operating handle
Provision for motorised mechanism LH/RH ring switch
Multi voltage shunt trip coil 20–48 V DC - 110–250 V AC/DC

Indication
Mechanical tripped on fault flag indication
Mechanical ON/OFF indication
Mechanical earth/main indication
Gas pressure indication
CB auxiliary contacts 1NO 1NC
CB earth position selected 1NO
CB earth ON, 1NO

Test facility
Integral ring switch cable test facility

Cable
Bottom entry up to 1 x 3C 300 mm²
Bottom entry up to 3 x 1C 630 mm²

Accessories - see table, page 17
CB, LH, RH motor kit
RH and LH ring switch indication auxiliary contacts 1NO 1NC
Earth ON auxiliary contact 1NO
VPIS indication
Inverted cable box (indoor only)
Transformer mounting kit (4)
Freestanding tee-off cable box

Order information
Code (1) Rating
RN2c-T25B/21 21 kA, 13.8 kV, 95 kV BIL
RN2c-T25BS/21 21 kA, 13.8 kV, 95 kV BIL
RN2c-T25A/21 21 kA, 13.8 kV, 95 kV BIL
RN2c-T25AS/21 21 kA, 13.8 kV, 95 kV BIL

---

(1) B (basic), BS (basic + sensitive earth-fault), A (advanced), AS (advanced + sensitive earth-fault)
(2) In = Primary CT ratio
(3) Only with T25B and T25BS
(4) BS + AS not available with transformer mounted units.
Network sectionalising up to 12 MVA 11 kV

Protection & control - CB
Self powered IDMT overcurrent and earth fault relay, VIP 300. In accordance with IEC 60255 and BS142

- Setting range: 800/1 A ratio
- Overcurrent: 80-800 A
- Earth fault: 8-640 A
- Setting range: 400/1 A
- Overcurrent: 40-400 A
- Earth fault: 4-320 A

Documents
Freestanding installation drawing ref: RMINST-05
Schematic drawing ref: RMSCH-42

Environment
Indoor/outdoor
IP54

Ratings
Busbars 630 A
Short time withstand 16/21 kA 3 s
Internal arc 16/21 kA 1 s IAC class AF, A-FLR available on gas enclosure only
Normal current rating 630 A/630 A
Normal rated voltage 12/13.8 kV
Normal rated BIL 75/95 kV

Operating mechanism
Independent manual

Standard features
Circuit breaker earth switch 16/21 kA
Ring cable earth switch, 16/21 kA 3 s
Anti-reflex operating handle
Provision for motorised mechanism LH/RH ring switch and circuit breaker with plug interface

Indication
Mechanical tripped on fault flag indicator
Mechanical ON/OFF indicator
Mechanical earth/main indicator
Gas pressure indicator
CB auxiliary contacts 1NO 1NC
CB earth position selected 1NO
CB earth ON, 1NO

Test facility
Integral ring switch and circuit breaker test facility

Cable
Bottom entry up to 1 x 3C 300 mm²
Bottom entry up to 3 x 1C 630 mm²

Accessories - see table, page 17
CB, LH, RH motor kits
LH, RH ring switch indication 1NO 1NC earth On 1NO
Multi voltage shunt trip coil 20-48 V DC - 110-250 V AC/DC
VPIS indication
Inverted cable boxes (indoor only)
Freestanding

Order information

<table>
<thead>
<tr>
<th>Code</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
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<td>RN6c-T1/16</td>
<td>16 kA, 12 kV, 75 kV BIL</td>
</tr>
<tr>
<td>RN6c-T1/21</td>
<td>21 kA, 13.8 kV, 95 kV BIL</td>
</tr>
</tbody>
</table>
Ring main units

Non-extensible ring main unit
630 A
RN6c-T25

Network sectionalising up to 12 MVA at 11 kV

Protection & control - CB
IDMT overcurrent, earth-fault and thermal overload relay,
Sepam series 10. In accordance with IEC 60255
Power supply 24-48 VDC required
Protection CT's - 800/400/1 A 5P20
Setting range (800/1):
overcurrent: 80 - 630 A, earth-fault: 8 - 1920 A, sensitive earth-fault: 0.2 - 24 A
Setting range (400/1):
overcurrent: 40 - 630 A, earth-fault: 4 - 960 A, sensitive earth-fault: 0.2 - 24 A

Documents
Schematic drawing ref:
RN6c-T25B: RMSCH-43
RN6c-T25BS: RMSCH-44
RN6c-T25A: RMSCH-45
RN6c-T25AS: RMSCH-46

Environment
Indoor/outdoor
IP54

Ratings
Busbar 630 A
Short time withstand 16/21 kA 3 s
Internal arc 16/21 kA 1 s IAC class AF, A-FLR available on gas enclosure only
Normal current rating 630 A
Normal rated voltage 12/13.8 kV
Normal rated BIL 75/95 kV

Operating mechanism
Independent manual

Standard features
Ring switch cable earth switch, 16/21 kA 3 s
Transformer earth switch, 16/21 kA 3 s
Anti-reflex operating handle
Provision for motorised mechanism LH/RH ring switch
Multi voltage shunt trip coil 20-48 V DC - 110-250 V AC/DC

Indication
Mechanical tripped on fault flag indication
Mechanical ON/OFF indication
Mechanical earth/main indication
Gas pressure indication
CB auxiliary contacts 1NO 1NC
CB earth position selected 1NO
CB earth ON, 1NO

Test facility
Integral ring switch cable test facility

Cable
Bottom entry up to 1 x 3C 300 mm²
Bottom entry up to 3 x 1C 630 mm²

Accessories - see table, page 17
CB, LH, RH motor kit
RH and LH ring switch indication auxiliary contacts 1NO 1NC
Earth ON auxiliary contact 1NO
VPIS indication
Inverted cable box (indoor only)
Transformer mounting kit

Freestanding tee-off cable box

Order information

<table>
<thead>
<tr>
<th>Code</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>RN6c-T25B/21</td>
<td>21 kA, 13.8 kV, 95 kV BIL</td>
</tr>
<tr>
<td>RN6c-T25BS/21</td>
<td>21 kA, 13.8 kV, 95 kV BIL</td>
</tr>
<tr>
<td>RN6c-T25A/21</td>
<td>21 kA, 13.8 kV, 95 kV BIL</td>
</tr>
<tr>
<td>RN6c-T25AS/21</td>
<td>21 kA, 13.8 kV, 95 kV BIL</td>
</tr>
</tbody>
</table>

(1) B (basic), BS (basic + sensitive earth-fault), A (advanced), AS (advanced + sensitive earth-fault)
(2) In = Primary CT ratio
(3) Only with T25B and T25BS
(4) BS + AS not available with transformer mounted units.
## Extensible ring main units

### Specification

<table>
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<tr>
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<th>RE2c-T1</th>
<th>RE2c-T2</th>
<th>RE2c-T3</th>
<th>RE2c-T4</th>
<th>RE2c-T25</th>
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</thead>
<tbody>
<tr>
<td><strong>Environment</strong></td>
<td>TFL</td>
<td>VIP 300</td>
<td>VIP 30</td>
<td>VIP 35</td>
<td>Sepam 10</td>
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<tr>
<td>Indoor / outdoor</td>
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<tr>
<td>IP54</td>
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<tr>
<td>Transformer mounted</td>
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<tr>
<td>Freestanding</td>
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<tr>
<td>Extensible (RHS)</td>
<td>☑</td>
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### Ratings

<table>
<thead>
<tr>
<th>Rating</th>
<th>RE2c-T1</th>
<th>RE2c-T2</th>
<th>RE2c-T3</th>
<th>RE2c-T4</th>
<th>RE2c-T25</th>
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</thead>
<tbody>
<tr>
<td>Busbars 630 A</td>
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<tr>
<td>Circuit breaker normal rated current 200 A</td>
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<tr>
<td>Circuit breaker normal rated current 630 A</td>
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<tr>
<td>Switch normal rated current 630 A</td>
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</tr>
<tr>
<td>12 kV 16 kA 3 seconds 75 kV BIL</td>
<td>☑</td>
<td>☑</td>
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<tr>
<td>13.8 kV 21 kA 3 seconds 95 kV BIL</td>
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<tr>
<td>Ring switch cable earth switch 16 kA 3 seconds</td>
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<td>Ring switch cable earth switch 21 kA 3 seconds</td>
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<tr>
<td>Circuit breaker earth switch 3.15 kA</td>
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<tr>
<td>Extensible rmu busbar chamber 630 A</td>
<td>☑</td>
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### Mechanism

<table>
<thead>
<tr>
<th>Mechanism</th>
<th>RE2c-T1</th>
<th>RE2c-T2</th>
<th>RE2c-T3</th>
<th>RE2c-T4</th>
<th>RE2c-T25</th>
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<tbody>
<tr>
<td>Independent manual</td>
<td>☑</td>
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<tr>
<td>Provision for motorised mechanism LH ring switch</td>
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<tr>
<td>Provision for motorised mechanism RH ring switch</td>
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</table>

### Protection & control - circuit breaker

<table>
<thead>
<tr>
<th>Protection &amp; control - circuit breaker</th>
<th>RE2c-T1</th>
<th>RE2c-T2</th>
<th>RE2c-T3</th>
<th>RE2c-T4</th>
<th>RE2c-T25</th>
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<tbody>
<tr>
<td>CT’s dual ratio - 100/50/5 A class X</td>
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<tr>
<td>CT’s ratio - 200/1 A class X</td>
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<tr>
<td>CT’s dual ratio 200/100/1 A SP20</td>
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<td>CT’s ratio - 500/200/1 A class X</td>
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<tr>
<td>Overcurrent &amp; earth fault CT operated trip coils - TFL</td>
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<tr>
<td>Overcurrent relay - VIP 30</td>
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<tr>
<td>Overcurrent &amp; earth fault relay - VIP 35</td>
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<td>IDMT overcurrent &amp; earth fault relay - VIP 300</td>
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<td>IDMT relay Sepam 10</td>
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<tr>
<td>Multi voltage shunt trip coil (see accessories)</td>
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### Indication

<table>
<thead>
<tr>
<th>Indication</th>
<th>RE2c-T1</th>
<th>RE2c-T2</th>
<th>RE2c-T3</th>
<th>RE2c-T4</th>
<th>RE2c-T25</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mechanical ON/OFF</td>
<td>☑</td>
<td>☑</td>
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<tr>
<td>Mechanical EARTH+MAIN</td>
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<tr>
<td>VPIS indication 3.3 - 13.8 kV</td>
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<tr>
<td>Gas pressure indicator (-25°C to +55°C)</td>
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<tr>
<td>RSW aux contacts 1NO &amp; 1NC</td>
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<td>☑</td>
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</tbody>
</table>

### Test facility

<table>
<thead>
<tr>
<th>Test facility</th>
<th>RE2c-T1</th>
<th>RE2c-T2</th>
<th>RE2c-T3</th>
<th>RE2c-T4</th>
<th>RE2c-T25</th>
</tr>
</thead>
<tbody>
<tr>
<td>Integral ring cable test facility</td>
<td>☑</td>
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### Standard features

<table>
<thead>
<tr>
<th>Standard features</th>
<th>RE2c-T1</th>
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<th>RE2c-T25</th>
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</thead>
<tbody>
<tr>
<td>Operating handle</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
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</tr>
<tr>
<td>Cable (see available cable kit accessories)</td>
<td>☑</td>
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</tr>
</tbody>
</table>

| Bottom entry up 1 x 3C 300 mm² | ☑ | ☑ | ☑ | ☑ | ☑ |
| Bottom entry up 3 x 1C 630 mm² | ☑ | ☑ | ☑ | ☑ | ☑ |
| Top entry cables (indoor only) (left hand side only) | ☑ | ☑ | ☑ | ☑ | ☑ |

### Order codes

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<th>Order codes</th>
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<th>RE2c-T3/16</th>
<th>RE2c-T4/16</th>
<th>RE2c-T25/21</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 kV, 16 kA, 75 kV BIL, 0.35xG</td>
<td>RE2c-T1/16</td>
<td>RE2c-T2/16</td>
<td>RE2c-T3/16</td>
<td>RE2c-T4/16</td>
<td>RE2c-T25/21</td>
</tr>
<tr>
<td>13.8 kV, 21 kA, 95 kV BIL, 0.8xG</td>
<td>RE2c-T1/21</td>
<td>RE2c-T2/21</td>
<td>RE2c-T3/21</td>
<td>RE2c-T4/21</td>
<td>RE2c-T25/21</td>
</tr>
</tbody>
</table>

### General arrangement drawing - freestanding

<table>
<thead>
<tr>
<th>General arrangement drawing - freestanding</th>
<th>RE2c-T1</th>
<th>RE2c-T2</th>
<th>RE2c-T3</th>
<th>RE2c-T4</th>
<th>RE2c-T25</th>
</tr>
</thead>
</table>

### Schematic diagram - TFL

<table>
<thead>
<tr>
<th>Schematic diagram - TFL</th>
<th>RMSCH-01 Page 104</th>
</tr>
</thead>
</table>

### Schematic diagram - VIT 30

<table>
<thead>
<tr>
<th>Schematic diagram - VIT 30</th>
<th>RMSCH-02 Page 105</th>
</tr>
</thead>
</table>

### Schematic diagram - VIP 35

<table>
<thead>
<tr>
<th>Schematic diagram - VIP 35</th>
<th>RMSCH-15 Page 107</th>
</tr>
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</table>

### Schematic diagram - VIP 300

<table>
<thead>
<tr>
<th>Schematic diagram - VIP 300</th>
<th>RMSCH-03 Page 106</th>
</tr>
</thead>
</table>

### Schematic diagram Sepam 10

<table>
<thead>
<tr>
<th>Schematic diagram Sepam 10</th>
<th>RMSCH-43-46 Pages 108-111</th>
</tr>
</thead>
</table>

**Key:** ☑ Standard feature  O Optional feature
### Ring main units

#### Extensible ring main units

**Accessories**

<table>
<thead>
<tr>
<th>Cable kits</th>
<th>RE2c-T1 TFL</th>
<th>RE2c-T2 VIP 300</th>
<th>RE2c-T3 VIP 30</th>
<th>RE2c-T4 VIP 35</th>
<th>RE2c-T25 Sepam 10</th>
<th>Kit no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extensible ring main units</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>RMR-A/F47</td>
</tr>
<tr>
<td>Gland plate 1 x 3C</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>RMR-A316</td>
</tr>
<tr>
<td>Gland plate 3 x 1C</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>RMR-A319</td>
</tr>
<tr>
<td>Small gland plate 1 x 3C</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>RMR-A322</td>
</tr>
<tr>
<td>Blank aluminium gland plate</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>RMR-A320</td>
</tr>
<tr>
<td>Brass wiping gland 1 x 3C</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>RMR-A10</td>
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<tr>
<td>Brass wiping gland 3 x 1C</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>RMR-A10</td>
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<tr>
<td>Small brass wiping gland 1 x 3C</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>RMR-A105</td>
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<tr>
<td>Tubular gland 1 x 3C</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>RMR-A12</td>
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<tr>
<td>Tubular gland 3 x 1C</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>RMR-A13</td>
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<tr>
<td>Small tubular gland 1 x 3C</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>RMR-A106</td>
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<tr>
<td>CESS gland</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>RMR-A120</td>
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<tr>
<td>CESS gland plate 1 x 3C</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>RMR-A321</td>
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<tr>
<td>CESS gland plate adaptor</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>RMR-A525</td>
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<tr>
<td>6 x ECON cable termination kit</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>RMR-A314</td>
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<tr>
<td>3 x STD ECON end cap</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>RMR-A370</td>
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<tr>
<td>3 x ECON cable termination kit</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>RMR-A315</td>
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<tr>
<td>3 x ECON end cap adaptors</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>RMR-A371</td>
</tr>
<tr>
<td>Top entry cables LH cable box (indoor only)</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>RMR-F302</td>
</tr>
<tr>
<td>Angled gland plate 1 x 3C</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>RMR-A317</td>
</tr>
<tr>
<td>Split gland plate 1 x 3C</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>RMR-A318</td>
</tr>
</tbody>
</table>

**Installation items**

| Transformer mounting kit | ☐ | ☐ | ☐ | ☐ | ☐ | RMR-A/F323 |
| Extension trunking (to clear radiators) | ☐ | ☐ | ☐ | ☐ | ☐ | RMR-A20 |
| Set of paddocks - 11 no | ☐ | ☐ | ☐ | ☐ | ☐ | RMR-A343 |
| Anti-vandal fixings, including tool | ☐ | ☐ | ☐ | ☐ | ☐ | RMR-A344 |
| Foundation bolts (not required for transformer mounting) | ☐ | ☐ | ☐ | ☐ | ☐ | RMR-A22 |
| Multicore pilot glands | ☐ | ☐ | ☐ | ☐ | ☐ | RMR-A342 |
| Time limit fuses (set of 2 - specify rating as table page 115) | ☐ | ☐ | ☐ | ☐ | ☐ | RMR-A17 |
| RE2c to MU2 installation kit | ☐ | ☐ | ☐ | ☐ | ☐ | RMR-A350 |
| Extensible busbar chamber 630 A | ☐ | ☐ | ☐ | ☐ | ☐ | RMR-F369 |
| Ariel mounting bracket | ☐ | ☐ | ☐ | ☐ | ☐ | RMR-A201 |

**Operational items**

| Operating handle | ☐ | ☐ | ☐ | ☐ | ☐ | RMR-F345 |
| LH ring switch control auxiliary sw for motorised mechanism provision | ☐ | ☐ | ☐ | ☐ | ☐ | RMR-F328 |
| LH ring switch termination block for motorised mechanism provision (not Easergy) | ☐ | ☐ | ☐ | ☐ | ☐ | RMR-F363 |
| RH ring switch control auxiliary sw for motorised mechanism provision | ☐ | ☐ | ☐ | ☐ | ☐ | RMR-F329 |
| RH ring switch termination block for motorised mechanism provision (not Easergy) | ☐ | ☐ | ☐ | ☐ | ☐ | RMR-F364 |
| Provision for motorised mechanism circuit breaker | ☐ | ☐ | ☐ | ☐ | ☐ | RMR-F543 |
| Motorised mechanism - specify voltage | ☐ | ☐ | ☐ | ☐ | ☐ | RMR-F507 |
| Shunt trip coil (20-250 V DC, 110-250 V AC) TLF | ☐ | ☐ | ☐ | ☐ | ☐ | RMR-F581 |
| Shunt trip coil (20-250 V DC, 110-250 V AC) VIP | ☐ | ☐ | ☐ | ☐ | ☐ | RMR-F582 |
| Ring switch cable VPIS indication (3.3-13.8 kV) | ☐ | ☐ | ☐ | ☐ | ☐ | RMR-F341 |
| Circuit breaker VPIS indication (11-13.8 kV) | ☐ | ☐ | ☐ | ☐ | ☐ | RMR-F340 |
| Circuit breaker VPIS indication (3.3-7.2 kV) | ☐ | ☐ | ☐ | ☐ | ☐ | RMR-F347 |
| VAP 6 test unit for VIP 300/30/35 | ☐ | ☐ | ☐ | ☐ | ☐ | RMR-A202 |
| Emergency trip push button | ☐ | ☐ | ☐ | ☐ | ☐ | RMR-F339 |
| Gas pressure switch for remote indication only | ☐ | ☐ | ☐ | ☐ | ☐ | RMR-F368 |

Key: ■ Standard feature ☐ Factory fitted accessory ☐ Loose accessory, assembled on site
### Ring main units

#### Extensible ring main units

##### Accessories

<table>
<thead>
<tr>
<th>Mechanical interlocks</th>
<th>RE2c-T1</th>
<th>RE2c-T2</th>
<th>RE2c-T3</th>
<th>RE2c-T4</th>
<th>RE2c-T25</th>
<th>Kit no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Circuit breaker - key free, earth on</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>RMR-F337</td>
</tr>
<tr>
<td>Circuit breaker - key free, main off</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>RMR-F338</td>
</tr>
<tr>
<td>Switch - key free, switch off LH</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>RMR-F335</td>
</tr>
<tr>
<td>Switch - key free, switch off RH</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>RMR-F336</td>
</tr>
</tbody>
</table>

N.B. specify lock symbol at time of ordering (3 digits max) not available with motor mechanisms

#### Earth fault passage indication (choose provision kit and an EFPI required if not using Easergy T200E)

| Phase & earth fault provision for Easergy T200E            | □       | □       | □       | □       | □       | RMR-F310|
| EFPI provision kit, inside cable box                       | □       | □       | □       | □       | □       | RMR-A304|
| EFPI provision kit, CT outside cable box                   | □       | □       | □       | □       | □       | RMR-A305|
| EFPI provision kit, inside cable box, top entry            | □       | □       | □       | □       | □       | RMR-A308|
| EFPI provision kit, outside cable box, top entry           | □       | □       | □       | □       | □       | RMR-A309|
| Bowden "RR" EFPI and CT                                     | □       | □       | □       | □       | □       | RMR-A422|
| Bowden STD EFPI type NB                                     | □       | □       | □       | □       | □       | RMR-A277|
| Bowden LV reset EFPI type NB                               | □       | □       | □       | □       | □       | RMR-A278|
| Bowden LV reset & alarm type NB                             | □       | □       | □       | □       | □       | RMR-A279|
| Fundamentals ER "FIND" EFPI and CT                         | □       | □       | □       | □       | □       | RMR-A57 |

N.B. above CT’s are ring type for split core - please consult Schneider Electric

Key: □ Factory fitted accessory  ○ Loose accessory, assembled on site
Multiple transformer feeders or network switching points

Protection & control - CB
Overcurrent and earth fault protection using CT operated trip coils with provision for time fuse links.
Protection CT’s - 100/50/5 A class X

Transformer ratings
See table - page 147

Documents
Freestanding installation drawing ref: RMINST-22
Schematic drawing ref: RMSCN-01

Environment
Indoor/outdoor
IP54

Ratings
Busbars 630 A
Short time withstand 16/21 kA 3 s
Internal arc 16/21 kA 1 s IAC class AF, A-FLR available on gas enclosure only
Normal current rating 630 A/200 A
Normal rated voltage 12/13.8 kV
Normal rated BIL 75/95 kV

Operating mechanism
Independent manual

Standard features
Ring switch cable earth switch, 16/21 kA 3 s
Transformer earth switch, 3.15 kA 3 s
Anti-reflex operating handle
Extensible (RHS)
Extensible (LHS and RHS)
Provision for motorised mechanism LH/RH ring switch with plug interface

Indication
Mechanical tripped on fault flag indicator
Mechanical ON/OFF indicator
Mechanical earth/main indicator
Gas pressure indicator
CB auxiliary contacts 1NO 1NC
CB earth position selected 1NO
CB earth ON, 1NO

Test facility
Integral ring switch test facility

Cable
Bottom entry up to 1 x 3C 300 mm²
Bottom entry up to 3 x 1C 630 mm²

Accessories - see table, page 28
CB, LH, RH motor kits
LH, RH ring switch indication 1NO 1NC earth On 1NO
Multi voltage shunt trip coil 20-48 V DC - 110-250 V AC/DC
VPIS indication
Integral circuit breaker test facility
Inverted cable boxes LH, CB (indoor only)
Transformer mounting kit
Freestanding tee-off cable box

Order information

<table>
<thead>
<tr>
<th>Code</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>RE2c-T1/16</td>
<td>16 kA, 12 kV, 75 kV BIL</td>
</tr>
<tr>
<td>RE2c-T1/21</td>
<td>21 kA, 13.8 kV, 95 kV BIL</td>
</tr>
</tbody>
</table>
Multiple transformer feeders or network switching points

Protection & control - CB
Self powered IDMT overcurrent and earth fault relay, VIP 300. In accordance with IEC 60255 and BS 142.
- Setting range:
  - Overcurrent: 20-200 A
  - Earth fault: 2-160 A

Transformer ratings
See table - page 147

Documents
Installation drawing ref: RMINST-22
Schematic drawing ref: RMSCH-03

Environment
Indoor/outdoor
IP54

Ratings
Busbars 630 A
Short time withstand 16/21 kA 3 s
Internal arc 16/21 kA 1 s IAC class AF, A-FLR available on gas enclosure only
Normal current rating 630 A/200 A
Normal rated voltage 12/13.8 kV
Normal rated BIL 75/95 kV

Operating mechanism
Independent manual

Standard features
Ring switch cable earth switch, 16/21 kA 3 s
Transformer earth switch, 3.15 kA 3 s
Anti-reflex operating handle
Extensible (RHS)
Provision for motorised mechanism LH/RH ring switch

Indication
Mechanical tripped on fault flag indicator
Mechanical ON/OFF indicator
Mechanical earth/main indicator
Gas pressure indicator
CB auxiliary contacts 1NO 1NC
CB earth position selected 1NO
CB earth ON, 1NO

Test facility
Integral ring switch test facility

Cable
Bottom entry up to 1 x 3C 300 mm²
Bottom entry up to 3 x 1C 630 mm²

Accessories - see table, page 28
CB, LH, RH motor kits
LH, RH ring switch indication 1NO 1NC
Multi voltage shunt trip coil 20-48 V DC - 110-250 V AC/DC
VPIS indication
Inverted cable box LH CB (indoor only)
Transformer mounting kit
Freestanding tee-off cable box

Order information

<table>
<thead>
<tr>
<th>Code</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>RE2c-T2/16</td>
<td>16 kA, 12 kV, 75 kV BIL</td>
</tr>
<tr>
<td>RE2c-T2/21</td>
<td>21 kA, 13.8 kV, 95 kV BIL</td>
</tr>
</tbody>
</table>
**Extensible ring main unit 200 A**

**RE2c-T3**

**MV transformer protection**

**Protection & control - CB**
Self powered overcurrent relay, VIP 30.
Protection CT's - 500/200/1 A class X
- Setting range: 500/1 A
- Overcurrent: 20-200 A
- Setting range: 200/1 A
- Overcurrent: 8-80 A

**Transformer ratings**
See table - page 147

**Documents**
Installation drawing ref: RMINST-22
Schematic drawing ref: RMSCH-02

**Environment**
Indoor/outdoor
IP54

**Ratings**
Busbars 630 A
Short time withstand 16/21 kA 3 s
Internal arc 16/21 kA 1 s IAC class AF, A-FLR available on gas enclosure only
Normal current rating 630 A/200 A
Normal rated voltage 12/13.8 kV
Normal rated BIL 75/95 kV

**Operating mechanism**
Independent manual

**Standard features**
Ring switch cable earth switch, 16/21 kA 3 s
Transformer earth switch, 3.15 kA
Anti-reflex operating handle
Extensible (RHS)
Provision for motorised mechanism LH/RH ring switch

**Indication**
Mechanical tripped on fault flag indicator
Mechanical ON/OFF indicator
Mechanical earth/main indicator
Gas pressure indicator
CB auxiliary contacts 1NO 1NC
CB earth position selected 1NO
CB earth ON, 1NO

**Test facility**
Integral ring switch test facility

**Cable**
Bottom entry up to 1 x 3C 300 mm²
Bottom entry up to 3 x 1C 630 mm²

**Accessories - see table, page 28**
CB, LH, RH motor kit
LH, RH ring switch indication 1NO 1NC
Multi voltage shunt trip coil 20-48 V DC - 110-250 V AC/DC
VPIS indication
Inverted cable boxes LH, CB (indoor only)
Transformer mounting kit
Freestanding tee-off cable box

**Order information**

<table>
<thead>
<tr>
<th>Code</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>RE2c-T3/16</td>
<td>16 kA, 12 kV, 75 kV BIL</td>
</tr>
<tr>
<td>RE2c-T3/21</td>
<td>21 kA, 13.8 kV, 95 kV BIL</td>
</tr>
</tbody>
</table>
**Extensible ring main unit 200 A**

**RE2c-T4**

**MV transformer protection**

**Protection & control - CB**

Self powered overcurrent and earth fault relay, VIP 35.

Protection CT's - 500/200/1 A class with CH30 core balance CT

- Setting range: 500/1 A
- Overcurrent: 20-200 A
- Earth fault 25-300 A
- Setting range: 200/1 A
- Overcurrent: 8-80 A
- Earth fault 10-120 A

**Transformer ratings**

See table - page 147

**Documents**

Installation drawing ref: RMINST-22
Schematic drawing ref: RMSCH-15

**Environment**

Indoor/outdoor

**IP54**

**Ratings**

Busbars 630 A
Short time withstand 16/21 kA 3 s
Internal arc 16/21 kA 1 s IAC class AF, A-FLR available on gas enclosure only
Normal current rating 630 A/200 A
Normal rated voltage 12/13.8 kV
Normal rated BIL 75/95 kV

**Operating mechanism**

Independent manual

**Standard features**

Ring switch cable earth switch, 16/21 kA 3 s
Transformer earth switch, 3.15 kA 3 s
Anti-reflex operating handle
Extensible (RHS)
Provision for motorised mechanism LH/RH ring switch

**Indication**

Mechanical tripped on fault indicator
Mechanical ON/OFF indicator
Mechanical earth/main indicator
Gas pressure indicator
CB auxiliary contacts 1NO 1NC
Earth position selected 1NO
Earth ON, 1NO

**Test facility**

Integral ring switch test facility

**Cable**

Bottom entry up to 1 x 3C 300 mm²
Bottom entry up to 3 x 1C 630 mm²

**Accessories - see table page 28**

CB, LH, RH motor kit
LH, RH ring switch indication 1NO 1NC
Multi voltage shunt trip coil 20-48 V DC - 110-250 V AC/DC
VPIS indication
Inverted cable boxes LH, CB (indoor only)
Transformer mounting
Freestanding tee-off cable box

**Order information**

<table>
<thead>
<tr>
<th>Code</th>
<th>Rating</th>
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<tbody>
<tr>
<td>RE2c-T4/16</td>
<td>16 kA, 12 kV, 75 kV BIL</td>
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<tr>
<td>RE2c-T4/21</td>
<td>21 kA, 13.8 kV, 95 kV BIL</td>
</tr>
</tbody>
</table>
Extensible ring main unit 200 A
RE2c-T25

MV transformer protection

Protection & control - CB
IDMT overcurrent, earth-fault and thermal overload relay,
Sepam series 10. In accordance with IEC 60255
Power supply 24-48 VDC required
Protection CT’s - 200/100/1 A 5P20
Setting range (200/1):
overcurrent: 20 - 200 A, earth-fault: 2 - 480 A, sensitive earth-fault: 0.2 - 24 A
Setting range (100/1):
overcurrent: 40 - 200 A, earth-fault: 1 - 240 A, sensitive earth-fault: 0.2 - 24 A

Documents
(1) Schematic drawing ref:
RN2c-T25B: RMSCH-43
RN2c-T25BS: RMSCH-44
RN2c-T25A: RMSCH-45
RN2c-T25AS: RMSCH-46

Environment
Indoor/outdoor
IP54

Ratings
Busbar 630 A
Short time withstand 16/21 kA 3 s
Internal arc 16/21 kA 1 s IAC class AF, A-FLR available on gas enclosure only
Normal current rating 630 A/200 A
Normal rated voltage 12/13.8 kV
Normal rated BIL 75/95 kV

Operating mechanism
Independent manual

Standard features
Ring switch cable earth switch, 16/21 kA 3 s
Transformer earth switch, 16/21 kA 3 s
Anti-reflex operating handle
Extensible RHS
Provision for motorised mechanism LH/RH ring switch
Multi voltage shunt trip coil 20-48 V DC - 110-250 V AC/DC

Indication
Mechanical tripped on fault flag indication
Mechanical ON/OFF indication
Mechanical earth/main indication
Gas pressure indication
CB auxiliary contacts 1NO 1NC
CB earth position selected 1NO
CB earth ON, 1NO

Test facility
Integral ring switch cable test facility

Cable
Bottom entry up to 1 x 3C 300 mm²
Bottom entry up to 3 x 1C 630 mm²

Accessories - see table, page 28
CB, LH, RH motor kit
RH and LH ring switch indication auxiliary contacts 1NO 1NC
Earth ON auxiliary contact 1NO
VPIS indication
Inverted cable box (indoor only)
Transformer mounting kit
Freestanding tee-off cable box

Order information

<table>
<thead>
<tr>
<th>Code (1)</th>
<th>Rating</th>
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<tbody>
<tr>
<td>RN2c-T25B/21</td>
<td>21 kA, 13.8 kV, 95 kV BIL</td>
</tr>
<tr>
<td>RN2c-T25BS/21</td>
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<td>21 kA, 13.8 kV, 95 kV BIL</td>
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(1) B (basic), BS (basic + sensitive earth-fault), A (advanced), AS (advanced + sensitive earth-fault)
(2) In = Primary CT ratio
(3) Only with T25B and T25BS
(4) BS + AS not available with transformer mounted units.
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### 200 A
#### Specification

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<td>☑</td>
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<tr>
<td>Bottom entry up 630 mm² 3 x 1C</td>
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</table>

Key: ☑ Standard feature ☑ Optional feature
## Circuit breaker, metering and switches

### Non-extensible circuit breakers

### 200 A

#### Accessories

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<th>Cable kits</th>
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<tr>
<td>Tubular gland 3 x 1C</td>
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<td>☑</td>
<td>RMR-A132</td>
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#### Installation items

| Set of padlocks - 6 no | | ☑ | | RMR-A18/6 |
| Anti-vandal fixings, including tool | | ☑ | | RMR-A19 |
| Foundation bolts (not required for transformer mounting) | | ☑ | | RMR-A22 |
| Multicore pilot glands | | | ☑ | RMR-A16 |
| Time limit fuses (set of 2 - specify rating as table page 115) | | ☑ | | RMR-A17 |

#### Operational items

| Operating handle | | | ☑ | RMR-A23 |
| VPIS indication (6.6-13.8 kV) | □ | | □ | RMR-F108 |
| Neon lamp test unit (including lamp) | ☑ | | ☑ | RMR-A24 |
| Neon lamp | | ☑ | | RMR-A81 |
| VAP 6 test unit for VIP 300 | | ☑ | | RMR-A202 |

#### Mechanical interlocks

| Key free, earth on | | | | RMR-F85 |
| Key free, unit off | | | | RMR-F86 |
| Transformer earth switch, key free, earth on | | | | RMR-F110 |

N. B. specify lock symbol at time of ordering (3 digits max) not available with motor mechanisms

### Order codes

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<td>CN2-T1/21</td>
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#### General arrangement drawing - transformer mounted

- RMINST-04 Page 93
- RMINST-04 Page 93
- RMINST-04 Page 93

#### General arrangement drawing - freestanding

- RMINST-09 Page 145
- RMINST-09 Page 145
- RMINST-09 Page 145

#### Schematic diagram

- RMSCH-26 Page 119
- RMSCH-11 Page 118
- RMSCH-47 to 50 Page 114 to 117

Key: ■ Standard feature □ Factory fitted accessory ☑ Loose accessory, assembled on site
Non-extensible circuit breaker
200 A
CN2-T1

Transformer protection up to 3.5 MVA

Protection & control - CB
Self powered IDMT overcurrent and earth fault relay, VIP 300. In accordance with IEC 60255 and BS142
Protection CT’s - 200/1 A class X
■ Setting range:
□ Overcurrent: 20-200 A
□ Earth fault: 2-160 A
Shunt trip coil, 20 V DC-250 V AC

Transformer ratings
See table - page 147

Documents
Transformer mounted installation drawing ref: RMINST-04
Installation drawing for freestanding unit with tee-off cable box ref: RMINST-09
Schematic drawing ref: RMSCH-26

Environment
Indoor/outdoor
IP54

Ratings
Busbars 630 A
Short time withstand 16/21 kA 3 s
Internal arc 16/21 kA 1 s IAC class AF, A-FLR available on gas enclosure only
Normal current rating 200 A
Normal rated voltage 12/13.8 kV
Normal rated BIL 75/95 kV

Operating mechanism
Independent manual

Standard features
Tee-off earth switch, 3.15 kA 3 s
Cable earth switch, 16/21 kA 3 s
Anti-reflex operating handle

Indication
Mechanical tripped on fault indicator
Mechanical ON/OFF indicator
Mechanical earth/main indicator
Gas pressure indicator
CB auxiliary contacts 1NO 2 NC

Test facility
Integral cable test facilities

Cable
Bottom entry up to 300 mm² 1 x 3C
Bottom entry up to 630 mm² 3 x 1C

Accessories
Tee-off cable box
Glands and plates
Interlocks
See page 37 for details

Order information

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Non-extensible circuit breaker
200 A
CN2-T6

Transformer protection up to 1.5 MVA

Protection & control - CB
Overcurrent and earth fault protection using CT operated trip coils with provision for time fuse links.
Protection CT’s - 100/50/5 A class X
Shunt trip coil, 20 V DC-250 V AC

Transformer ratings
See table - page 147

Documents
Transformer mounted installation drawing ref: RMINST-04
Installation drawing for freestanding unit with tee-off cable box ref: RMINST-09
Schematic drawing ref: RMSCH-11

Environment
Indoor/outdoor
IP54

Ratings
Busbars 630 A
Short time withstand 16/21 kA 3 s
Internal arc 16/21 kA 1 s IAC class AF, A-FLR available on gas enclosure only
Normal current rating 200 A
Normal rated voltage 12/13.8 kV
Normal rated BIL 75/95 kV

Operating mechanism
Independent manual

Standard features
Transformer earth switch, 3.15 kA 3 s
Cable earth switch, 16/21 kA 3 s
Anti-reflex operating handle

Indication
Mechanical tripped on fault indicator
Mechanical ON/OFF indicator
Mechanical earth/main indicator
Gas pressure indicator
CB auxiliary contacts 1NO 2 NC

Test facility
Integral cable test facilities

Cable
Bottom entry up to 300 mm² 1 x 3C
Bottom entry up to 630 mm² 3 x 1C

Accessories
Tee-off cable box
Glands and plates
Interlocks
See page 37 for details

Order information

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Non-extensible circuit breaker
200 A
CN2-T25

Transformer protection up to 3.5 MVA
Protection & control - CB
IDMT overcurrent, earth-fault and thermal overload relay, Sepam series 10. In accordance with IEC 60255
Power supply 24-48 VDC required
Protection CT’s - 200/100/1 A 5P20
Setting range (200/1):
overcurrent: 20 - 200 A, earth-fault: 2 - 480 A, sensitive earth-fault: 0.2 - 24 A
Setting range (100/1):
overcurrent: 10 - 200 A, earth-fault: 1 - 240 A, sensitive earth-fault: 0.2 - 24 A

Documents (1)
Schematic drawing ref:
CN2-T25B: RMSCH-47
CN2-T25BS: RMSCH-48
CN2-T25A: RMSCH-49
CN2-T25AS: RMSCH-50

Environment
Indoor/outdoor
IP54

Ratings
Busbar 630 A
Short time withstand 16/21 kA 3 s
Internal arc 16/21 kA 1 s IAC class AF, A-FLR available on gas enclosure only
Normal current rating 200 A
Normal rated voltage 12/13.8 kV
Normal rated BIL 75/95 kV

Operating mechanism
Independent manual

Standard features
Transformer earth switch, 3.15 kA 3 s
Cable earth switch, 16/21 kA 3 s
Anti-reflex operating handle

Indication
Mechanical tripped on fault flag indication
Mechanical ON/OFF indication
Mechanical earth/main indication
Gas pressure indication
CB auxiliary contacts 1NO 1NC (3)

Test facility
Integral ring switch cable test facility

Cable
Bottom entry up to 1 x 3C 300 mm²
Bottom entry up to 3 x 1C 630 mm²

Accessories - see table, page 37
Tee-off cable box
Glands and plates
Interlocks

Order information

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<tr>
<td>CN2-T25AS/21</td>
<td>21 kA, 13.8 kV, 95 kV BIL</td>
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(1) B (basic), BS (basic + sensitive earth-fault), A (advanced), AS (advanced + sensitive earth-fault)
(2) In = Primary CT ratio
(3) Only with T25B and T25BS.
## Non-extensible switches 630 A
### Specification

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<td><strong>Ratings</strong></td>
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<td>13.8 kV 21 kA 3 seconds 95 kV BIL</td>
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<td>Cable earth switch 21 kA 3 seconds</td>
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Key: ■ Standard feature ◇ Optional feature
## Non-extensible switches 630 A

### Accessories

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<td>☐</td>
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<tr>
<td>Gland plate 1 x 3C</td>
<td>☑</td>
<td>☑</td>
<td>RMR-A48</td>
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<tr>
<td>Gland plate 3 x 1C</td>
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<td>RMR-A49</td>
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<tr>
<td>Angled gland plates (RMR)</td>
<td>☑</td>
<td>☑</td>
<td>RMR-A50</td>
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<tr>
<td>Blank aluminium gland plate</td>
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<td>RMR-A52</td>
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<tr>
<td>Brass wiping gland 1 x 3C</td>
<td>☑</td>
<td>☑</td>
<td>RMR-A10</td>
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<td>Brass wiping gland 3 x 1C</td>
<td>☑</td>
<td>☑</td>
<td>RMR-A11</td>
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<tr>
<td>Tubular gland 1 x 3C</td>
<td>☑</td>
<td>☑</td>
<td>RMR-A12</td>
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<td>Tubular gland 3 x 1C</td>
<td>☑</td>
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<td>RMR-A13</td>
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<tr>
<td>CESS gland plate 1 x 3C</td>
<td>☑</td>
<td>☑</td>
<td>RMR-A132</td>
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</tbody>
</table>

### Installation items

| Set of padlocks - 6 no                         | ☑      | ☑      | RMR-A18/6 |
| Anti-vandal fixings, including tool            | ☑      | ☑      | RMR-A19   |
| Foundation bolts (not required for transformer mounting) | ☑      | ☑      | RMR-A22   |
| Multicore pilot glands                         | ☑      | ☑      | RMR-A16   |

### Operational items

| Operating handle                              | ☑      | ☑      | RMR-A23   |
| VPIS indication (6.6-13.8 kV)                  | ☐      | ☐      | RMR-F108  |
| Neon lamp test unit (including lamp)           | ☑      | ☑      | RMR-A24   |
| Neon lamp                                      | ☑      | ☑      | RMR-A81   |
| Actuator 24 V DC                               | ☑      | ☑      | RMR-F67   |

### Mechanical interlocks

| Key free, earth on                            | ☐      | ☐      | RMR-F85   |
| Key free, unit off                            | ☐      | ☐      | RMR-F86   |
| Transformer earth switch, key free, earth on   | ☐      | ☐      | RMR-F110  |

N. B. specify lock symbol at time of ordering (3 digits max) not available with motor mechanisms

### Order codes

| 13.8 kV, 21 kA, 95 kV BIL, 0.35sBG              | SN6-S1/21 | SN6-S2/21 |
| General arrangement drawing - transformer mounted | RMINST-04 Page 93 | RMINST-04 Page 93 |
| General arrangement drawing - freestanding      | RMINST-09 Page 145 | RMINST-09 Page 145 |
| Schematic diagram                               | N/A       | RMSCH-28 Page 137 |

Key: ■ Standard feature  ☐ Factory fitted accessory  ☑ Loose accessory, assembled on site
Non-extensible switch 630 A
SN6-S1

Switch disconnector
Protection & control - CB
Non-automatic

Documents
Installation drawing ref: RMINST-04
Installation drawing for freestanding unit with tee-off cable box ref: RMINST-09
Schematic drawing ref: N/A

Environment
Indoor/outdoor
IP54

Ratings
Busbars 630 A
Short time withstand 21 kA 3 s
Internal arc 16/21 kA 1 s IAC class AF, A-FLR available on gas enclosure only
Normal current rating 630 A
Normal rated voltage 13.8 kV
Normal rated BIL 95 kV

Operating mechanism
Independent manual

Standard features
Transformer earth switch, 3.15 kA 3 s
Cable earth switch, 21 kA 3 s
Anti-reflex operating handle

Indication
Mechanical ON/OFF indicator
Mechanical earth/main indicator
Gas pressure indicator

Test facility
Integral cable test facilities

Cable
Bottom entry up to 300 mm² 1 x 3C
Bottom entry up to 630 mm² 3 x 1C

Accessories
Tee-off cable box
VPIS indication
Glands and plates
Interlocks
See page 42 for details

Order information

<table>
<thead>
<tr>
<th>Code</th>
<th>Rating</th>
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<tbody>
<tr>
<td>SN6-S1/21</td>
<td>21 kA, 13.8 kV, 95 kV BIL</td>
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</table>
Switch disconnector

Protection & control - CB
Non-automatic

Documents
Installation drawing ref: RMINST-04
Installation drawing for freestanding unit with tee-off cable box ref: RMINST-09
Schematic drawing ref: RMSCH-28

Environment
Indoor/outdoor
IP54

Ratings
Busbars 630 A
Short time withstand 21 kA 3 s
Internal arc 16/21 kA 1 s IAC class AF, A-FLR available on gas enclosure only
Normal current rating 630 A
Normal rated voltage 13.8 kV
Normal rated BIL 95 kV

Operating mechanism
Independent manual
Provision for actuator, 24 V DC

Standard features
Transformer earth switch, 3.15 kA 3 s
Cable earth switch, 21 kA 3 s
Anti-reflex operating handle

Indication
Mechanical ON/OFF indicator
Mechanical earth/main indicator
Gas pressure indicator
Auxiliary contacts 1NO 2NC
Earth selected auxiliary contact 1NO

Test facility
Integral cable test facilities

Cable
Bottom entry up to 300 mm² 1 x 3C
Bottom entry up to 630 mm² 3 x 1C

Accessories
Tee-off cable box
Actuator, 24 V DC
VPIS indication
Glands and plates
See page 42 for details

Order information

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<td>SN6-S2/21</td>
<td>21 kA, 13.8 kV, 95 kV BIL</td>
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## Non-extensible metering unit
### 200 A
#### Specification

<table>
<thead>
<tr>
<th>Environment</th>
<th>MU2-M1</th>
<th>MU2-M2</th>
<th>MU2-M3</th>
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<tr>
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#### Ratings

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<th>Normal rated current 200 A</th>
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<tbody>
<tr>
<td>12 kV 16 kA 1 second 75 kV BIL</td>
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#### Metering (1)

<table>
<thead>
<tr>
<th>CT's -50/25/5 A 0.5s 7.5 VA</th>
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<tbody>
<tr>
<td>CT's -100/50/5 A 0.5s 10 VA</td>
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</tr>
<tr>
<td>CT's -200/100/5 A 0.5s 10 VA</td>
<td></td>
</tr>
<tr>
<td>VT's -11 kV/110 V 0.5 50 VA</td>
<td></td>
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</tbody>
</table>

#### Cable (see available cable kit accessories)

<table>
<thead>
<tr>
<th>Bottom entry up 300 mm² 1 x 3C</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Bottom entry up 630 mm² 3 x 1C</td>
<td></td>
</tr>
</tbody>
</table>

Key:
- ■ Standard feature
- ○ Optional feature

(1) CT's - 2 phases (R & B), VT's phase to phase. 6.6 kV VT's are available - Contact Schneider Electric
## Accessories

### Cable kits
- **Tee-off cable box**: MU2-M1, MU2-M2, MU2-M3
- **Gland plate 1 x 3C**: MU2-M1, MU2-M2, MU2-M3
- **Gland plate 3 x 1C**: MU2-M1, MU2-M2, MU2-M3
- **Angled gland plates (RMU)**: MU2-M1, MU2-M2, MU2-M3
- **Blank aluminium gland plate**: MU2-M1, MU2-M2, MU2-M3
- **Brass wiping gland 1 x 3C**: MU2-M1, MU2-M2, MU2-M3
- **Brass wiping gland 3 x 1C**: MU2-M1, MU2-M2, MU2-M3
- **Tubular gland 1 x 3C**: MU2-M1, MU2-M2, MU2-M3
- **Tubular gland 3 x 1C**: MU2-M1, MU2-M2, MU2-M3
- **CES5 gland plate 1 x 3C**: MU2-M1, MU2-M2, MU2-M3

### Installation items
- **Set of padlocks - XX no**: MU2-M1, MU2-M2, MU2-M3
- **Foundation bolts (not required for transformer mounting)**: MU2-M1, MU2-M2, MU2-M3
- **Multicore pilot glands**: MU2-M1, MU2-M2, MU2-M3
- **RMU - MU2 installation kit**: MU2-M1, MU2-M2, MU2-M3
- **Freestanding installation kit**: MU2-M1, MU2-M2, MU2-M3

### Order codes
- **12 kV, 16 kA, 75 kV BIL, 0.35bG**: MU2-M1/16, MU2-M2/16, MU2-M3/16
- **General arrangement drawing - transformer mounted**: RMINST-07/08 Pages 97 - 96, RMINST-07/08 Pages 97 - 96, RMINST-07/08 Pages 97 - 96

### Schematic diagram
- **RMSCH-14** Page 113

Key: ☐ Factory fitted accessory  ☐ Loose accessory, assembled on site
Non-extensible metering unit
200 A
MU2-M1

Non-extensible metering unit
Protection & control - CB
N/A

Metering transformers
- Metering CT’s R & B phases
  - 50/25/5 A
  - 7.5 VA class 0.5s
- Metering VT ph - ph
  - 11 kV/110 V 50 VA
  - class 0.5

Documents
Installation drawing ref: RMINST-07/08
Schematic drawing ref: RMSCH-14

Environment
Indoor/outdoor
IP54

Ratings
- Short time withstand 16 kA 1 s
- Internal arc 16/21 kA 1 s IAC class AF, A-FLR available on gas enclosure only
- Normal current rating 200 A
- Normal rated voltage 12 kV
- Normal rated BIL 75 kV

Standard features
Direct coupling between RMU and transformer (optional freestanding cable connection)

Cable connection
- Bottom entry up to 300 mm² 1 x 3C
- Bottom entry up to 630 mm² 3 x 1C

Accessories
- Cable box
- Glands and plates
- Installation kits
See page 46 for details

Order information

<table>
<thead>
<tr>
<th>Code</th>
<th>Rating</th>
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<tbody>
<tr>
<td>MU2-M1/16</td>
<td>16 kA, 12 kV, 75 kV BIL</td>
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</table>
Non-extensible metering unit

200 A
MU2-M2

Non-extensible metering unit
Protection & control - CB
N/A

Metering transformers
- Metering CT’s R & B phases
  - 100/50/5 A
  - 10 VA class 0.5s
- Metering VT ph - ph
  - 11 kV/110 V 50 VA
  - class 0.5

Documents
Installation drawing ref: RMINST-07/08
Schematic drawing ref: RMSCH-14

Environment
Indoor/outdoor
IP54

Ratings
Short time withstand 16 kA 1 s
Internal arc 16/21 kA 1 s IAC class AF, A-FLR available on gas enclosure only
Normal current rating 200 A
Normal rated voltage 12 kV
Normal rated BIL 75 kV

Standard features
Direct coupling between RMU and transformer (optional freestanding cable connection)

Cable connection
Bottom entry up to 300 mm² 1 x 3C
Bottom entry up to 630 mm² 3 x 1C

Accessories
Cable box
Glands and plates
Installation kits
See page 46 for details

Order information

<table>
<thead>
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<th>Code</th>
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<tbody>
<tr>
<td>MU2-M2/16</td>
<td>16 kA, 12 kV, 75 kV BIL</td>
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</tbody>
</table>
Non-extensible metering unit
200 A
MU2-M3

Non-extensible metering unit
Protection & control - CB
N/A

Metering transformers
- Metering CT’s R & B phases
  - 200/100/5 A
  - 10 VA class 0.5s
- Metering VT ph - ph
  - 11 kV/110 V 50 VA
  - class 0.5

Documents
Installation drawing ref: RMINST-07/08
Schematic drawing ref: RMSCH-14

Environment
Indoor/outdoor
IP54

Ratings
Short time withstand 16 kA 1 s
Internal arc 16/21 kA 1 s IAC class AF, A-FLR available on gas enclosure only
Normal current rating 200 A
Normal rated voltage 12 kV
Normal rated BIL 75 kV

Standard features
Direct coupling between RMU and transformer
(optional freestanding cable connection)

Cable connection
Bottom entry up to 300 mm² 1 x 3C
Bottom entry up to 630 mm² 3 x 1C

Accessories
Cable box
Glands and plates
Installation kits
See page 46 for details

Order information

<table>
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<tr>
<td>MU2-M3/16</td>
<td>16 kA, 12 kV, 75 kV BIL</td>
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# Specification

## Circuit breaker, metering and switches

## Non-extensible metering units

### 630 A

#### Environment

<table>
<thead>
<tr>
<th>Feature</th>
<th>MU6-N1</th>
<th>MU6-N2</th>
<th>MU6-N3</th>
<th>MU6-N5</th>
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</thead>
<tbody>
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<td>IP54</td>
<td>□</td>
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</tbody>
</table>

#### Ratings

- Normal rated current 630 A: □
- 12 kV 16 kA 1 second 75 kV BIL: □

#### Metering (1)

<table>
<thead>
<tr>
<th>Feature</th>
<th>MU6-N1</th>
<th>MU6-N2</th>
<th>MU6-N3</th>
<th>MU6-N5</th>
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</thead>
<tbody>
<tr>
<td>CT’s - 400/600/5 A 10 VA</td>
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<tr>
<td>CT’s - 600/5 A 10 VA</td>
<td>□</td>
<td>□</td>
<td>□</td>
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</tr>
<tr>
<td>CT’s - 400/5 A 10 VA</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>CT’s - 600/300/5 A 10 VA</td>
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<td>□</td>
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</tr>
<tr>
<td>VT’s - 11 kV/110 V 0.5 50 VA</td>
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<td>□</td>
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</tr>
<tr>
<td>VT’s - 11 kV/6.6 kV/110 V 0.5 50 VA</td>
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<td>□</td>
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#### Cable (see available cable kit accessories)

<table>
<thead>
<tr>
<th>Feature</th>
<th>MU6-N1</th>
<th>MU6-N2</th>
<th>MU6-N3</th>
<th>MU6-N5</th>
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</thead>
<tbody>
<tr>
<td>Bottom entry up 300 mm² 1 x 3C</td>
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</tr>
<tr>
<td>Bottom entry up 630 mm² 3 x 1C</td>
<td>〇</td>
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Key:

- □ Standard feature
- 〇 Optional feature

(1) CT’s - 2 phases (R&B), VT’s phase to phase 6.6 kV VT’s are available - Contact Schneider Electric
## Circuit breaker, metering and switches

### Non-extensible metering units

#### 630 A

### Accessories

<table>
<thead>
<tr>
<th>Cable kits</th>
<th>MU6-N1</th>
<th>MU6-N2</th>
<th>MU6-N3</th>
<th>MU6-N5</th>
<th>Kit no.</th>
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<tbody>
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<td>Tee-off cable box</td>
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<td>Gland plate 3 x 1C</td>
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<td>RMR-A49</td>
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<tr>
<td>Angled gland plates (RMU)</td>
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<td>RMR-A51 Blank</td>
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<td>Blank aluminium gland plate</td>
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<td>☐</td>
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<td>RMR-A52</td>
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<tr>
<td>Brass wiping gland 1 x 3C</td>
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<td>Brass wiping gland 3 x 1C</td>
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<td>Tubular gland 3 x 1C</td>
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<td>CES5 gland plate 1 x 3C</td>
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### Installation items

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<tr>
<td>Foundation bolts (not required for transformer mounting)</td>
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<tr>
<td>Multicore pilot glands</td>
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<tr>
<td>RMU - MU6 installation kit</td>
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<tr>
<td>Freestanding installation kit</td>
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### Order codes

<table>
<thead>
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<th>12 kV, 16 kA, 75 kV/BIL, 0.35pC</th>
<th>MU6-N1/16</th>
<th>MU6-N2/16</th>
<th>MU6-N3/16</th>
<th>MU6-N5/16</th>
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</thead>
<tbody>
<tr>
<td>General arrangement drawing - transformer mounted</td>
<td>RMINST-07/08</td>
<td>RMINST-07/08</td>
<td>RMINST-07/08</td>
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<td>Pages 97 - 96</td>
<td>Pages 97 - 96</td>
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<tr>
<td>Schematic diagram</td>
<td>RMSCH-14</td>
<td>RMSCH-14</td>
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<tr>
<td>Page 113</td>
<td>Page 113</td>
<td>Page 113</td>
<td>Page 113</td>
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</tbody>
</table>

**Key:** ■ Standard feature □ Factory fitted accessory ○ Loose accessory, assembled on site
Non-extensible metering units
630 A
MU6-N**

Non-extensible metering unit
Protection & control - CB
N/A

Metering transformers
- Metering CT's R & B phases (16 kA, 12 kV, 75 kV BIL)
  10 VA, class 0.5s
    400/200 A
    600/5 A
    400/5 A
    600/300/5 A
- Metering VT ph - ph (16 kA, 12 kV, 75 kV BIL)
  50 VA, class 0.5
    11 kV/110 V
    11 kV/6.6 kV/110 V

Documents
Installation drawing ref: RMINST-07/08
Schematic drawing ref: RMSCH-14

Environment
Indoor/outdoor
IP54

Ratings
- Short time withstand 16 kA 1 s
- Internal arc 16/21 kA 1 s IAC class AF, A-FLR available on gas enclosure only
- Normal current rating 630 A
- Normal rated voltage 12 kV
- Normal rated BIL 75 kV

Standard features
- Direct coupling between RMU and transformer (optional freestanding cable connection)

Cable connection
- Bottom entry up to 300 mm² 1 x 3C
- Bottom entry up to 630 mm² 3 x 1C

Accessories
- Cable box
- Glands and plates
- Installation kits
- See page 51 for details

Order information
<table>
<thead>
<tr>
<th>Code</th>
<th>Rating</th>
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</thead>
<tbody>
<tr>
<td>MU6-N**</td>
<td>16 kA, 12 kV, 75 kV BIL</td>
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</table>
## Circuit breaker, metering and switches

### Extensible circuit breakers

#### 200 A

**Specification**

<table>
<thead>
<tr>
<th>Environment</th>
<th>CE2-T2</th>
<th>CE2-T3</th>
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<th>CE2-T13</th>
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**Ratings**

| Bustubars 630 A | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| Circuit breaker normal rated current 200 A | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| 12 kV 15 kA 3 seconds 75 kV BIL | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| 13.8 kV 21 kA 3 seconds 95 kV BIL | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| Cable earth switch 16 kA 3 seconds | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| Cable earth switch 21 kA 3 seconds | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |

**Mechanism**

| Independent manual | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| Provision for actuator 24 V DC | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| Actuator 24 V DC | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |

**Protection system**

| CT’s dual ratio - 500/200/1 A class x | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| Overcurrent relay - VIP 30 | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| CT’s dual ratio - 100/50/5 A class X | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| CT’s dual ratio 200/100/1 A SP20 | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| CT ratio - 200/1 A class X | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| Overcurrent & earth fault CT operated trip coils | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| Overcurrent & earth fault relay VIP 35 | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| Time fuse link | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| IDM T overcurrent & earth fault relay - VIP 300 | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| IDM T overcurrent and earth fault relay Sepam 10 | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| 20 V-250 shunt trip coil | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| Auxiliary switch 1NO 2NC | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |

**Metering**

| CT’s - 200/100/5 A 0.5s 10 VA | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| VT’s -13.8 kV/110 V 0.5 10 VA 13.8/110/110 V 0.5 50 VA 3P 20 VA | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| VT’s -11 kV/110 V 0.5 50 VA | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| VT’s -6.6 kV/110 V 0.5 50 VA | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| VT’s phase - phase, CT’s R & B | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| VT’s phase - earth, CT’s RB | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |

**Indication**

| Mechanical ON/OFF | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| Mechanical EARTH/MAIN | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| Cable VPIS indication (6.6 - 13.8 kV) | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| Auxiliary switch contacts 1NO 2NC | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| Earth selected auxiliary contacts 1NO | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |

**Test facility**

| Integral cable test facility | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |

**Cable**

| Bottom entry up to 300 mm² 1 x 3C | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| Bottom entry up to 630 mm² 3 x 1C | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| Top entry cables | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |

**Key:**

- ✔ Standard feature
- ○ Optional feature
## Extensible circuit breakers

### 200 A

#### Accessories

<table>
<thead>
<tr>
<th>Kit no.</th>
<th>CE2-T2</th>
<th>CE2-T3</th>
<th>CE2-T7</th>
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#### Installation items

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#### Mechanical interlocks

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(1) Only required when unit is used with RE2c ring main units and automation.

---

N. B. specify lock symbol at time of ordering (3 digits max) not available with motor mechanisms

Key: ☐ Standard feature ☐ Factory fitted accessory ☐ Loose accessory, assembled on site
Extensible circuit breakers

200 A

Accessories

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<th>Kit no.</th>
<th>CE2-T1</th>
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<th>CE2-T20</th>
<th>CE2-T21</th>
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</thead>
</table>

**Earth fault passage indication (choose provision kit and an EFPI required if not using Easergy 200E)**

- EFPI provision kit, inside cable box
- Bowden STD EFPI type NB
- Bowden LV reset EFPI type NB1
- Bowden LV reset & alarm type NB2
- Bowden “RR” EFPI and CT
- Fundamentals ER “FIND” EFPI and CT

**Ancillary items**

- Tool box

**Order code**

<table>
<thead>
<tr>
<th>12 kV, 16 kA, 75 kV BIL, 0.35bG</th>
<th>CE2-T2/16</th>
<th>CE2-T3/16</th>
<th>CE2-T7/16</th>
<th>CE2-T11/16</th>
<th>CE2-T12/16</th>
<th>CE2-T13/16</th>
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<tr>
<td>13.8 kV, 21 kA, 95 kV BIL, 0.55bG</td>
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**General arrangement drawing**

- RMINST-03
- RMINST-02
- RMINST-01

**Schematic drawing**

- RMSCH-07
- RMSCH-09
- RMSCH-06
- RMSCH-08
- RMSCH-19
- RMSCH-20
- RMSCH-21
- RMSCH-20
- RMSCH-21
- RMSCH-22
- RMSCH-23
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- RMSCH-25
- RMSCH-26
- RMSCH-27
- RMSCH-28
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- RMSCH-39
- RMSCH-40
- RMSCH-41
- RMSCH-42
- RMSCH-43
- RMSCH-44
- RMSCH-45
- RMSCH-46
- RMSCH-47 to 50

**Key:** ■ Standard feature □ Factory fitted accessory ○ Loose accessory, assembled on site
Extensible circuit breaker 200 A
CE2-T2

Feeder protection up to 3.5 MVA at 11 kV

Protection & control - CB
Self powered IDMT overcurrent and earth fault relay, VIP 300. In accordance with
IEC 60255 and BS142.
Protection CT’s - 200/1 A class X
Shunt trip coil, 20 V DC-250 V AC
Setting range:
- Overcurrent: 20-200 A
- Earth fault: 2-160 A

Documents
Installation drawing ref: RMINST-03
Schematic drawing ref: RMSCH-07

Environment
Indoor/outdoor
IP54

Ratings
Busbars 630 A
Short time withstand 16/21 kA 3 s
Internal arc 16/21 kA 1 s IAC class AF, A-FLR available on gas enclosure only
Normal current rating 200 A
Normal rated voltage 12/13.8 kV
Normal rated BIL 75/95 kV

Operating mechanism
Independent manual

Standard features
Cable earth switch, 16/21 kA 3 s
Anti-reflex operating handle

Indication
Mechanical tripped on fault flag indicator
Mechanical ON/OFF indicator
Mechanical earth/main indicator
Auxiliary contacts,1NO 2NC
Gas pressure indicator

Test facility
Integral cable test facilities

Cable
Bottom entry up to 300 mm² 1 x 3C
Bottom entry up to 630 mm² 3 x 1C

Accessories
VPIS indication
Glands and plates
Interlocks
Operating handle
Busbar kit
Top entry cables
See page 54 for details

Order information

<table>
<thead>
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<th>Code</th>
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<tr>
<td>CE2-T2/16</td>
<td>16 kA, 12 kV, 75 kV BIL</td>
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<tr>
<td>CE2-T2/21</td>
<td>21 kA, 13.8 kV, 95 kV BIL</td>
</tr>
</tbody>
</table>
Transformer protection up to 1.5 MVA at 11 kV

Protection & control - CB
Overcurrent and earth fault protection using CT operated trip coils with provision for time fuse links.
Protection CT’s - 100/50/5 A class X
Shunt trip coil, 20 V DC-250 V AC

Documents
Installation drawing ref: RMINST-03
Schematic drawing ref: RMSCH-06

Environment
Indoor/outdoor
IP54

Ratings
Busbars 630 A
Short time withstand 16/21 kA 3 s
Internal arc 16/21 kA 1 s IAC class AF, A-FLR available on gas enclosure only
Normal current rating 200 A
Normal rated voltage 12/13.8 kV
Normal rated BIL 75/95 kV

Operating mechanism
Independent manual

Standard features
Cable earth switch, 16/21 kA 3 s
Anti-reflex operating handle

Indication
Mechanical tripped on fault flag indicator
Mechanical ON/OFF indicator
Mechanical earth/main indicator
Auxiliary contacts, 1NO 2NC
Gas pressure indicator

Test facility
Integral cable test facility

Cable
Bottom entry up to 300 mm² 1 x 3C
Bottom entry up to 630 mm² 3 x 1C

Accessories
VPIS indication
Glands and plates
Interlocks
Operating handle
Busbar kit
Top entry cables
See page 54 for details

Order information

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</table>
Circuit breaker, metering and switches

Extensible circuit breaker 200 A
CE2-T*

Feeder protection up to 3.5 MVA at 11 kV

Protection & control - CB
Self powered IDMT overcurrent and earth fault relay, VIP 300. In accordance with IEC 60255 and BS142.
Protection CT's - 200/1 A class X
Shunt trip coil, 20 V DC-250 V AC
■ Setting range:
□ Overcurrent: 20-200 A
□ Earth fault: 2-160 A

Metering transformers
■ Metering CT's R & B phases
□ 200/100/5 A
□ 10 VA class 0.5s
■ Metering VT
□ see below

Environment
Indoor/outdoor
IP54

Ratings
Busbars 630 A
Short time withstand 16/21 kA 3 s
Internal arc 16/21 kA 1 s IAC class AF, A-FLR available on gas enclosure only
Normal current rating 200 A
Normal rated voltage 12/13.8 kV
Normal rated BIL 75/95 kV

Operating mechanism
Independent manual
Anti-reflex operating handle

Standard features
Cable earth switch, 16/21 kA 3 s

Indication
Mechanical tripped on fault flag indicator
Mechanical ON/OFF indicator
Mechanical earth/main indicator
Auxiliary contacts, 1 NO 2 NC
Gas pressure indicator

Test facility
Integral cable test facility

Cable
Bottom entry up to 300 mm² 1 x 3C
Bottom entry up to 630 mm² 3 x 1C

Accessories
VPIS indication
Glands and plates
Interlocks
Operating handle
Busbar kit
Top entry cables
See page 54 for details

Order code
16 kA, 12 kV, 75 kV BIL
21 kA, 13.8 kV, 95 kV BIL
CE2-T3/16
CE2-T3/21
CE2-T11/16
CE2-T11/21
N/A
CE2-T19/21
CE2-T20/16
N/A

Metering VT information:
Phase to phase
Phase to earth
6.6 kV/110 V
11 kV/110 V
13.8 kV/110 V

General arrangement drawing
RMINST-02 Page 91
RMINST-02 Page 91
RMINST-02 Page 91
RMINST-02 Page 91

Schematic diagram
RMSCH-09 Page 123
RMSCH-09 Page 123
RMSCH-35 Page 133
RMSCH-35 Page 133

(1) Please consult Schneider Electric when ordering units with 95 kV BIL voltage
Tel: +44 (0)113 290 3500
Extensible circuit breaker 200 A
CE2-T12

Feeder protection up to 3.5 MVA at 11 kV

Protection & control - CB
Self powered IDMT overcurrent and earth fault relay, VIP 300. In accordance with IEC 60255 and BS142.
Protection CT’s - 200/1 A class X
Shunt trip coil, 20 V DC-250 V AC
- Setting range:
  - Overcurrent: 20-200 A
  - Earth fault: 2-160 A

Documents
Installation drawing ref: RMINST-03
Schematic drawing ref: RMSCH-19

Environment
Indoor/outdoor
IP54

Ratings
Busbars 630 A
Short time withstand 16/21 kA 3 s
Internal arc 16/21 kA 1 s IAC class AF, A-FLR available on gas enclosure only
Normal current rating 200 A
Normal rated voltage 12/13.8 kV
Normal rated BIL 75/95 kV

Operating mechanism
Independent manual
Provision for actuator, 24 V DC

Standard features
Cable earth switch, 16/21 kA 3 s
Anti-reflex operating handle

Indication
Mechanical tripped on fault flag indicator
Mechanical ON/OFF indicator
Mechanical earth/main indicator
Auxiliary contacts, 1NO 2 NC
Earth selected auxiliary contact 1NO
Gas pressure indicator

Test facility
Integral cable test facility

Cable
Bottom entry up to 300 mm² 1 x 3C
Bottom entry up to 630 mm² 3 x 1C

Accessories
Actuator, 24 V DC
VPIS indication
Glands and plates
Interlocks
Operating handle
Busbar kit
Top entry cables
See page 54 for details

Order information

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<td>CE2-T12/21</td>
<td>21 kA, 13.8 kV, 95 kV BIL</td>
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</table>
Circuit breaker, metering and switches

Extensible circuit breaker 200 A
CE2-T**

Feeder protection up to 3.5 MVA at 11 kV

Protection & control - CB
Self powered IDMT overcurrent and earth fault relay, VIP 300. In accordance with IEC 60255 and BS142. Protection CT’s - 200/1 A class X Shunt trip coil, 20 V DC-250 V AC
- Setting range:
  - Overcurrent: 20-200 A
  - Earth fault: 2-160 A

Metering transformers
- Metering CT’s
  - 200/100/5 A
  - 10 VA class 0.5s
- Metering VT
  - see below

Environment
Indoor/outdoor
IP54

Ratings
Busbars 630 A
Short time withstand 16/21 kA 3 s
Internal arc 16/21 kA 1 s IAC class AF, A-FLR available on gas enclosure only
Normal current rating 200 A
Normal rated voltage 12/13.8 kV
Normal rated BIL 75/95 kV

Operating mechanism
Independent manual
Provision for actuator, 24 V DC

Standard features
Cable earth switch, 16/21 kA 3 s
Anti-reflex operating handle

Indication
Mechanical tripped on fault indicator
Mechanical ON/OFF indicator
Mechanical earth/main indicator
Auxiliary contacts, 1NO 2NC
Earth selected auxiliary contact 1NO
Gas pressure indicator

Test facility
Integral cable test facility

Cable
Bottom entry up to 300 mm² 1 x 3C
Bottom entry up to 630 mm² 3 x 1C

Accessories
Actuator, 24 V DC
VPIS indication
Glands and plates
Interlocks
Operating handle
Busbar kit
Top entry cables
See page 54 for details

Order code

| 16 kA, 12 kV, 75 kV BIL | CE2-T14/16 | N/A |
| 21 kA, 13.8 kV, 95 kV BIL | CE2-T14/21 | CE2-T21/21 |

Metering VT information:
- Phase to phase
- Phase to earth
- 6.6 kV/110 V
- 11 kV/110 V (1)
- 13.8 kV/110 V

General arrangement drawing
RMINST-02 Page 91
RMINST-02 Page 91

Schematic diagram
RMSCH-20 Page 128
RMSCH-36 Page 134

(1) Please consult Schneider Electric when ordering units with 95 kV BIL voltage
Tel. +44 (0)113 290 3500

Meters details:
(Select VT rating and switchgear rating from table below).
Extensible circuit breaker 200 A
CE2-T13

Feeder protection up to 3.5 MVA at 11 kV

Protection & control - CB
Self powered IDMT overcurrent and earth fault relay, VIP 300. In accordance with IEC 60255 and BS142.
Protection CT’s - 200/1 A class X
Shunt trip coil, 20 V DC-250 V AC
Setting range:
- Overcurrent: 20-200 A
- Earth fault: 2-160 A

Metering transformers
- Metering CT’s
  - 200/100/5 A
  - 10 VA class 0.5s
- Metering VT ph - ph
  - 11 kV/110 V 50 VA
  - class 0.5

Documents
Installation drawing ref: RMINST-02
Schematic drawing ref: RMSCH-20

Environment
Indoor/outdoor
IP54

Ratings
Busbars 630 A
Short time withstand 16/21 kA 3 s
Internal arc 16/21 kA 1 s IAC class AF, A-FLR available on gas enclosure only
Normal current rating 200 A
Normal rated voltage 12/13.8 kV
Normal rated BIL 75/95 kV

Operating mechanism
Independent manual
Actuator, 24 V DC

Standard features
Cable earth switch, 16/21 kA 3 s
Anti-reflex operating handle

Indication
Mechanical tripped on fault indicator
Mechanical ON/OFF indicator
Mechanical earth/main indicator
Auxiliary contacts, 1NO 2NC
Earth selected auxiliary contact1NO
Gas pressure indicator

Test facility
Integral cable test facility

Cable
Bottom entry up to 300 mm² 1 x 3C
Bottom entry up to 630 mm² 3 x 1C

Accessories
VPIS indication
Glands and plates
Interlocks
Operating handle
Busbar kit
Top entry cables
See page 54 for details

Order information

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<tr>
<td>CE2-T13/21</td>
<td>21 kA, 13.8 kV, 95 kV BIL</td>
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</tbody>
</table>
Extensible circuit breaker 200 A
CE2-T15

Feeder protection up to 2.5 MVA at 11 kV

Protection & control - CB
Self powered overcurrent relay, VIP 30.
Protection CT’s - 500/200/1 A class X
- Setting range: 500/1 A
- Overcurrent: 20-200 A
- Setting range: 200/1 A
- Overcurrent: 8-80 A

Documents
Installation drawing ref: RMINST-03
Schematic drawing ref: RMSCH-12

Environment
Indoor/outdoor
IP54

Ratings
Busbars 630 A
Short time withstand 16/21 kA 3 s
Internal arc 16/21 kA 1 s IAC class AF, A-FLR available on gas enclosure only
Normal current rating 200 A
Normal rated voltage 12/13.8 kV
Normal rated BIL 75/95 kV

Operating mechanism
Independent manual

Standard features
Cable earth switch, 16/21 kA 3 s
Anti-reflex operating handle

Indication
Mechanical tripped on fault flag indicator
Mechanical ON/OFF indicator
Mechanical earth/main indicator
Auxiliary contacts, 1NO 2NC
Gas pressure indicator

Test facility
Integral cable test facilities

Cable
Bottom entry up to 300 mm² 1 x 3C
Bottom entry up to 630 mm² 3 x 1C

Accessories
VPIS indication
Glands and plates
Interlocks
Operating handle
Busbar kit
Top entry cables
See page 54 for details

Order information

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<tr>
<td>CE2-T15/21</td>
<td>21 kA, 13.8 kV, 95 kV BIL</td>
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</tbody>
</table>
Extensible circuit breaker 200 A
CE2-T16

Feeder protection up to 2.5 MVA at 11 kV

Protection & control - CB
Self powered IDMT overcurrent and earth fault relay, VIP 35.
Protection CT’s - 500/200/1 A class X
CH30 core balance CT
- Setting range: 500/1 A
- Overcurrent: 20-200 A
- Earth fault: 25-300 A
- Setting range: 200/1 A
- Overcurrent: 8-80 A
- Earth fault: 10-120 A

Documents
Installation drawing ref: RMINST-03
Schematic drawing ref: RMSCH-13

Environment
Indoor/outdoor
IP54

Ratings
Busbars 630 A
Short time withstand 16/21 kA 3 s
Internal arc 16/21 kA 1 s IAC class AF, A-FLR available on gas enclosure only
Normal current rating 200 A
Normal rated voltage 12/13.8 kV
Normal rated BIL 75/95 kV

Operating mechanism
Independent manual

Standard features
Cable earth switch, 16/21 kA 3 s
Anti-reflex operating handle

Indication
Mechanical tripped on fault flag indicator
Mechanical ON/OFF indicator
Mechanical earth/main indicator
Auxiliary contacts, 1NO 2NC
Gas pressure indicator

Test facility
Internal cable test facilities

Cable
Bottom entry up to 300 mm² 1 x 3C
Bottom entry up to 630 mm² 3 x 1C

Accessories
VPIS indication
Glands and plates
Interlocks
Operating handle
Busbar kit
Top entry cables
See page 54 for details

Order information
<table>
<thead>
<tr>
<th>Code</th>
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<tr>
<td>CE2-T16/16</td>
<td>16 kA, 12 kV, 75 kV BIL</td>
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<tr>
<td>CE2-T16/21</td>
<td>21 kA, 13.8 kV, 95 kV BIL</td>
</tr>
</tbody>
</table>
Extensible circuit breaker 200 A
CE2-T25

Transformer protection up to 3.5 MVA at 11 kV

Protection & control - CB
IDMT overcurrent, earth-fault and thermal overload relay, Sepam series 10. In accordance with IEC 60255
Power supply 24-48 VDC required
Protection CT’s - 200/100/1 A 5P20
Setting range (200/1):
overcurrent: 20 - 200 A, earth-fault: 2 - 480 A, sensitive earth-fault: 0.2 - 24 A
Setting range (100/1):
overcurrent: 10 - 200 A, earth-fault: 1 - 240 A, sensitive earth-fault: 0.2 - 24 A

Documents
Schematic drawing ref:
CE2 – T25B: RMSCH-47
CE2 – T25BS: RMSCH-48
CE2 – T25A: RMSCH-49
CE2 – T25AS: RMSCH-50

Environment
Indoor/outdoor
IP54

Ratings
Busbar 630 A
Short time withstand 16/21 kA 3 s
Internal arc 16/21 kA 1 s IAC class AF, A-FLR available on gas enclosure only
Normal current rating 200 A
Normal rated voltage 12/13.8 kV
Normal rated BIL 75/95 kV

Operating mechanism
Independent manual

Standard features
Cable earth switch, 16/21 kA 3 s
Anti-reflex operating handle

Indication
Mechanical tripped on fault flag indication
Mechanical ON/OFF indication
Mechanical earth/main indication
Gas pressure indication
CB auxiliary contacts 1NO 1NC (3)

Test facility
Integral ring switch cable test facility

Cable
Bottom entry up to 1 x 3C 300 mm²
Bottom entry up to 3 x 1C 630 mm²

Accessories - see table, page 54
Tee-off cable box
Glands and plates
Interlocks

Order information

<table>
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<td>CE2-T25BS/21</td>
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<tr>
<td>CE2-T25AS/21</td>
<td>21 kA, 13.8 kV, 95 kV BIL</td>
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</tbody>
</table>

(1) B (basic), BS (basic + sensitive earth-fault), A (advanced), AS (advanced + sensitive earth-fault)
(2) In = Primary CT ratio
(3) Only with T25B and T25BS.
## Circuit breaker, metering and switches

### Extensible circuit breakers

#### 630 A

**Specification**

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<th>Environment</th>
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<th>CE6-T5</th>
<th>CE6-T6</th>
<th>CE6-T8</th>
<th>CE6-T9</th>
<th>CE6-T10</th>
<th>CE6-T22</th>
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</table>

**Ratings**

- Busbars 630 A
- Circuit breaker normal rated current 630 A
- 12 kV 16 kA 3 seconds 75 kV BIL
- 13.8 kV 21 kA 3 seconds 95 kV BIL
- Cable earth switch 16 kA 3 seconds
- Cable earth switch 21 kA 3 seconds

**Mechanism**

- Independent manual
- Provision for actuator 24 V DC
- Actuator 24 V DC
- Operating handle

**Protection system**

- CT ratio - 800/1 A class X
- CT dual ratio 800/400/1 A 5P20
- IDMT overcurrent & earth fault relay - VIP 300
- IDMT overcurrent & earth fault relay Sepam 10
- 20 V-250 V shunt trip coil
- Auxiliary switch 1NO 2NC

**Metering**

- CT’s - 400/200/5 A 0.5s 10 VA
- VT’s - 13.8 kV/110 V/110 V/0.5 50 VA 3P 20 VA
- VT’s - 11 V/110 V 0.5 50 VA
- VT’s - 6.6 kV/110 V 0.5 50 VA
- VT’s - phase - phase, CT’s R & B
- VT’s - earth - earth, CT’s RYB

**Indication**

- Mechanical ON/OFF
- Mechanical EARTH/MAIN
- Cable VPIS indication (6.6 - 13.8 kV)
- Auxiliary switch contacts 1NO 2NC
- Indication CT 600/5 A 5 VA CLS 1 Yph
- Ammeter 0-600 A
- Earth selected auxiliary contacts 1NO
- Gas pressure indicator

**Test facility**

- Integral cable test facility

**Cable**

- Bottom entry up to 300 mm² 1 x 3C
- Bottom entry up to 630 mm² 3 x 1C
- Top entry cables

**Key:**
- Standard feature
- Optional feature
### Extensible circuit breakers
#### 630 A Accessories

<table>
<thead>
<tr>
<th>Cable kits</th>
<th>CE6-T4</th>
<th>CE6-T5</th>
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#### Installation items
- 3 phase busbars 630 A: RMR-A14
- 3 phase busbars 630 A: RMR-A78
- Busbar end kit: RMR-A15
- Set of padlocks - 6 no: RMR-A186
- Foundation bolts (not required for transformer mounting): RMR-A22
- Multicore pilot glands: RMR-A16

#### Operational items
- Operating handle: RMR-A23
- Cable VPIS indication (6.6 - 13.8 kV): RMR-A108
- Neon lamp test unit (including lamp): RMR-A24
- Neon lamp: RMR-A81
- VAP 6 test unit for VIP 300: RMR-A202
- Actuator 24 V DC: RMR-F67
- Polarity conversion kit(1): RMR-F391

#### Mechanical interlocks
- Key free, EARTH ON: RMR-F85
- Key free, MAIN OFF: RMR-F86

#### Earth fault passage indication
(choose provision kit and an EFPI required if not using Easergy T200E)
- EFPI provision kit, inside cable box: RMR-F30
- Bowden STD EFPI type NB: RMR-A277
- Bowden LV reset EFPI type NB1: RMR-A278
- Bowden LV reset & alarm type NB2: RMR-A279
- Bowden “RR” EFPI and CT: RMR-A56
- Fundamentals ER “FIND” EFPI and CT: RMR-A57

#### Ancillary items
- Tool box: RMR-A80

#### Order code
- 12 kV, 16 kA, 75 kV BIL, 0.35bG: CE6-T4/16
- 13.8 kV, 21 kA, 95 kV BIL, 0.55bG: CE6-T24/21

#### General arrangement drawing
- RMINST-03
- RMINST-02
- RMINST-03
- RMINST-02
- RMINST-02
- RMINST-02

#### Schematic drawing
- RMSCH-08
- RMSCH-10
- RMSCH-23
- RMSCH-24
- RMSCH-37
- RMSCH-38

---

Key: n Standard feature | c Factory fitted accessory | o Loose accessory, assembled on site

(1) Only required when unit is used with RE2c ring main units and automation.
Feeder protection up to 12 MVA at 11 kV

Protection & control - CB
Self powered IDMT overcurrent and earth fault relay, VIP 300. In accordance with IEC 60255 and BS142.
Protection CT’s - 800/1 A class X
Shunt trip coil, 20 V DC-250 V AC
- Setting range:
  - Overcurrent: 80-800 A
  - Earth fault: 8-640 A

Documents
Installation drawing ref: RMINST-03
Schematic drawing ref: RMSCH-08

Environment
Indoor/outdoor
IP54

Ratings
Busbars 630 A
Short time withstand 16/21 kA 3 s
Internal arc 16/21 kA 1 s IAC class AF, A-FLR available on gas enclosure only
Normal current rating 630 A
Normal rated voltage 12/13.8 kV
Normal rated BIL 75/95 kV

Operating mechanism
Independent manual

Standard features
Cable earth switch, 16/21 kA 3 s
Anti-reflex operating handle

Indication
Mechanical tripped on fault flag indicator
Mechanical ON/OFF indicator
Mechanical earth/main indicator
Auxiliary contacts, 1NO 2 NC
Ammeter 0-600 A
Indication CT Y ph - 600/5 A class 1.0, 5 VA
Gas pressure indicator

Test facility
Integral cable test facility

Cable
Bottom entry up to 300 mm² 1 x 3C
Bottom entry up to 630 mm² 3 x 1C

Accessories
VPIS indication
Glands and plates
Interlocks
Busbar kit
Top entry cables
See page 66 for details

Order information

<table>
<thead>
<tr>
<th>Code</th>
<th>Rating</th>
</tr>
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<tbody>
<tr>
<td>CE6-T4/16</td>
<td>16 kA, 12 kV, 75 kV BIL</td>
</tr>
<tr>
<td>CE6-T4/21</td>
<td>21 kA, 13.8 kV, 95 kV BIL</td>
</tr>
</tbody>
</table>
Circuit breaker, metering and switches

Extensible circuit breaker 630 A
CE6-T*

Feeder protection up to 12 MVA at 11 kV

Protection & control - CB
Self powered IDMT overcurrent and earth fault relay, VIP 300. In accordance with IEC 60255 and BS142.
Protection CTs - 800/1 A class X
Shunt trip coil, 20 V DC-250 V AC
- Setting range:
  - Overcurrent: 80-800 A
  - Earth fault: 8-640 A

Metering transformers
- Metering CTs
  - 400/200/5 A
  - 10 VA class 0.5s
- Metering VT
  - see below

Environment
Indoor/outdoor
IP54

Ratings
Busbars 630 A
Short time withstand 16/21 kA 3 s
Internal arc 16/21 kA 1 s IAC class AF, A-FLR available on gas enclosure only
Normal current rating 630 A
Normal rated voltage 12/13.8 kV
Normal rated BIL 75/95 kV

Operating mechanism
Independent manual

Standard features
- Cable earth switch, 16/21 kA 3 s
- Anti-reflex operating handle

Indication
- Mechanical tripped on fault flag indicator
- Mechanical ON/OFF indicator
- Mechanical earth/main indicator
- Auxiliary contacts, 1NO 2 NC
- Ammeter 0-600 A
- Indication CT Y ph - 600/5 A class 1.0, 5 VA
- Gas pressure indicator

Test facility
- Integral cable test facility

Cable
- Bottom entry up to 300 mm² 1 x 3C
- Bottom entry up to 630 mm² 3 x 1C

Accessories
- Actuator, 24 V DC
- VPIS indication
- Glands and plates
- Interlocks
- Busbar kit
- Top entry cables
  - See page 66 for details

Order code

<table>
<thead>
<tr>
<th>16 kA, 12 kV, 75 kV BIL</th>
<th>CE6-T5/16</th>
<th>CE6-T5/21</th>
<th>CE6-T6/16</th>
<th>CE6-T6/21</th>
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<th>CE6-T24/16</th>
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<tbody>
<tr>
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<td>CE6-T5/16</td>
<td>CE6-T5/21</td>
<td>CE6-T6/16</td>
<td>CE6-T6/21</td>
<td>N/A</td>
<td>CE6-T22/21</td>
<td>CE6-T24/16</td>
</tr>
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</table>

- Metering VT information:
  - Phase to phase
  - Phase to earth
  - 6.6 kV/110 V
  - 11 kV/110 V (1)
  - 13.8 kV/110 V

General arrangement drawing
- RMINST-02 Page 91
- RMINST-02 Page 91
- RMINIST-02 Page 91
- RMINIST-02 Page 91

Schematic diagram
- RMSCH-10 Page 124
- RMSCH-10 Page 124
- RMSCH-37 Page 135
- RMSCH-37 Page 135

(1) Please consult Schneider Electric when ordering units with 95 kV BIL voltage
Tel: +44 (0)113 290 3500
Extensible circuit breaker 630 A
CE6-T8

Feeder protection up to 12 MVA at 11 kV

Protection & control - CB
Self powered IDMT overcurrent and earth fault relay, VIP 300. In accordance with IEC 60255 and BS142.
Protection CT's - 800/1 A class X
Shunt trip coil, 20 V DC-250 V AC
■ Setting range:
□ Overcurrent: 80-800 A
□ Earth fault: 8-640 A

Documents
Installation drawing ref: RMINST-03
Schematic drawing ref: RMSCH-23

Environment
Indoor/outdoor
IP54

Ratings
Busbars 630 A
Short time withstand 16/21 kA 3 s
Internal arc 16/21 kA 1 s IAC class AF, A-FLR available on gas enclosure only
Normal current rating 630 A
Normal rated voltage 12/13.8 kV
Normal rated BIL 75/95 kV

Operating mechanism
Independent manual
Provision for actuator, 24 V DC

Standard features
Cable earth switch, 16/21 kA 3 s
Anti-reflex operating handle

Indication
Mechanical tripped on fault flag indicator
Mechanical ON/OFF indicator
Mechanical earth/main indicator
Auxiliary contacts, 1NO 2 NC
Earth selected auxiliary contact 1NO
Ammeter 0-600 A
Indication CT Y ph - 600/5 A class 1.0, 5 VA
Gas pressure indicator

Test facility
Integral cable test facility

Cable
Bottom entry up to 300 mm² 1 x 3C
Bottom entry up to 630 mm² 3 x 1C

Accessories
Actuator, 24 V DC
VPIS indication
Glands and plates
Interlocks
Busbar kit
Top entry cables
See page 66 for details

Order information

<table>
<thead>
<tr>
<th>Code</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE6-T8/16</td>
<td>16 kA, 12 kV, 75 kV BIL</td>
</tr>
<tr>
<td>CE6-T8/21</td>
<td>21 kA, 13.8 kV, 95 kV BIL</td>
</tr>
</tbody>
</table>
Extensible circuit breaker 630 A
CE6-T25

Feeder protection up to 12 MVA at 11 kV

Protection & control - CB
IDMT overcurrent, earth-fault and thermal overload relay, Sepam series 10. In accordance with IEC 60255
Power supply 24-48 VDC required
Protection CT's - 800/400/1 A 5P20
Setting range (800/1):
- overcurrent: 80 - 630 A, earth-fault: 8 - 1920 A, sensitive earth-fault: 0.2 - 24 A
- overcurrent: 40 - 630 A, earth-fault: 4 - 960 A, sensitive earth-fault: 0.2 - 24 A

Documents
Schematic drawing ref:
CE6 – T25B: RMSCH-47
CE6 – T25BS: RMSCH-48
CE6 – T25A: RMSCH-49
CE6 – T25AS: RMSCH-50

Environment
Indoor/outdoor
IP54

Ratings
Busbar 630 A
Short time withstand 16/21 kA 3 s
Internal arc 16/21 kA 1 s IAC class AF, A-FLR available on gas enclosure only
Normal current rating 630 A
Normal rated voltage 12/13.8 kV
Normal rated BIL 75/95 kV

Operating mechanism
Independent manual

Standard features
Cable earth switch, 16/21 kA 3 s
Anti-reflex operating handle

Indication
Mechanical tripped on fault flag indication
Mechanical ON/OFF indication
Mechanical earth/main indication
Gas pressure indication
CB auxiliary contacts 1NO 1NC (2)

Test facility
Integral ring switch cable test facility

Cable
Bottom entry up to 1 x 3C 300 mm²
Bottom entry up to 3 x 1C 630 mm²

Accessories - see table, page 66
Tee-off cable box
Glands and plates
Interlocks

Order information

<table>
<thead>
<tr>
<th>Code (1)</th>
<th>Rating</th>
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<tbody>
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<td>CE6-T25B/21</td>
<td>21 kA, 13.8 kV, 95 kV BIL</td>
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<td>CE6-T25BS/21</td>
<td>21 kA, 13.8 kV, 95 kV BIL</td>
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<tr>
<td>CE6-T25A/21</td>
<td>21 kA, 13.8 kV, 95 kV BIL</td>
</tr>
<tr>
<td>CE6-T25AS/21</td>
<td>21 kA, 13.8 kV, 95 kV BIL</td>
</tr>
</tbody>
</table>

(1) B (basic), BS (basic + sensitive earth-fault), A (advanced), AS (advanced + sensitive earth-fault)
(2) In = Primary CT ratio
(3) Only with T25B and T25BS.
Circuit breaker, metering and switches

Extensible circuit breaker 630 A
CE6-T**

Feeder protection up to 12 MVA at 11 kV

Protection & control - CB
Self powered IDMT overcurrent and earth fault relay, VIP 300. In accordance with IEC 60255 and BS142.
Protection CTs - 800/1 A class X
Shunt trip coil, 20 V DC-250 V AC
Setting range:
- Overcurrent: 80-800 A
- Earth fault: 8-640 A

Metering transformers
- Metering CT's
- 400/200/5 A
- 10 VA class 0.5s
- Metering VT
- see below

Environment
Indoor/outdoor
IP54

Ratings
Busbars 630 A
Short time withstand 16/21 kA 3 s
Internal arc 16/21 kA 1 s IAC class AF, A-FLR available on gas enclosure only
Normal current rating 630 A
Normal rated voltage 12/13.8 kV
Normal rated BIL 75/95 kV

Operating mechanism
Independent manual

Standard features
Cable earth switch, 16/21 kA 3 s
Anti-reflex operating handle

Indication
Mechanical tripped on fault flag indicator
Mechanical ON/OFF indicator
Mechanical earth/main indicator
Auxiliary contacts, 1NO 2 NC
Earth selected auxiliary contacts
Ammeter 0-600 A
Indication CT Y ph- 600/5 A class 1.0, 5 VA
Gas pressure indicator

Test facility
Integral cable test facility

Cable
Bottom entry up to 300 mm² 1 x 3C
Bottom entry up to 630 mm² 3 x 1C

Accessories
VPIS indication
Glands and plates
Interlocks
Busbar kit
Top entry cables
See page 66 for details

Order code

<table>
<thead>
<tr>
<th>16 kA, 12 kV, 75 kV BIL</th>
<th>CE6-T9/16</th>
<th>CE6-T9/21</th>
<th>CE6-T10/16</th>
<th>CE6-T10/21</th>
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<tbody>
<tr>
<td>21 kA, 13.8 kV, 95 kV BIL</td>
<td>CE6-T9/21</td>
<td>CE6-T9/21</td>
<td>CE6-T10/21</td>
<td>CE6-T10/21</td>
<td>CE6-T23/21</td>
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</table>

Metering VT information:

- Phase to phase
- Phase to earth

- 6.6 kV/110 V
- 11 kV/110 V (1)
- 13.8 kV/110 V

General arrangement drawing
RMINST-02
Page 91

Schematic diagram
RMSCH-24
Page 132

(1) Please consult Schneider Electric when ordering units with 95 kV BIL voltage
Tel: +44 (0)113 290 3500

(Select VT rating and switchgear rating from table below).
### Extensible switches 630 A
#### Specification

<table>
<thead>
<tr>
<th>Feature</th>
<th>SE6-S1</th>
<th>SE6-S2</th>
<th>SE6-E1</th>
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</thead>
<tbody>
<tr>
<td><strong>Environment</strong></td>
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<tr>
<td>Indoor / outdoor</td>
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<td>IP54</td>
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<tr>
<td><strong>Ratings</strong></td>
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<tr>
<td>Busbars 630 A</td>
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<td>■</td>
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<tr>
<td>Switch normal rated current 630 A</td>
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<td>■</td>
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<tr>
<td>13.8 kV 21 kA 3 seconds 95 kV BIL</td>
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<tr>
<td>Cable earth switch 21 kA 3 seconds</td>
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<tr>
<td><strong>Mechanism</strong></td>
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<tr>
<td>Independent manual</td>
<td>■</td>
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<td>■</td>
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<tr>
<td>Provision for actuator 24 V DC</td>
<td>■</td>
<td>■</td>
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<tr>
<td>Actuator 24 V DC</td>
<td>☐</td>
<td>☐</td>
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</tr>
<tr>
<td>Operating handle</td>
<td>■</td>
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<td>■</td>
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<tr>
<td><strong>Indication</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Mechanical ON/OFF</td>
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<td>■</td>
<td>■</td>
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<tr>
<td>Mechanical EARTH/MAIN</td>
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<td>■</td>
<td>■</td>
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<tr>
<td>Cable VPIS indication (6.6-13.8 kV)</td>
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<td>☐</td>
<td>☐</td>
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<tr>
<td>Busbar VPIS indication (6.6-13.8 kV)</td>
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<td>☐</td>
<td>☐</td>
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<tr>
<td>Auxiliary switch contacts 1NO 1 NC</td>
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<td>☐</td>
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<td>Phase and earth fault detection CT’s for Easergy T200E</td>
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<td>EFPI provision only CT inside box</td>
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<td>Gas pressure indicator</td>
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<tr>
<td><strong>Test facility</strong></td>
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<tr>
<td>Integral cable test facility</td>
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<td>RH/LH busbar earthing</td>
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<tr>
<td><strong>Cable (see available cable kit accessories)</strong></td>
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<tr>
<td>Bottom entry up to 300 mm² 1 x 3C</td>
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</tr>
<tr>
<td>Bottom entry up to 630 mm² 3 x 1C</td>
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<tr>
<td>Top entry cables</td>
<td>☐</td>
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Key: ■ Standard feature  □ Factory fitted accessory  ☐ Loose accessory, assembled on site
Extensible switches 630 A
Accessories

<table>
<thead>
<tr>
<th>Accessories</th>
<th>SE6-S1</th>
<th>SE6-S2</th>
<th>SE6-E1</th>
<th>Kit no.</th>
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<tr>
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<td>Blank aluminium gland plate</td>
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<td><strong>Multicore pilot glands</strong></td>
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<tr>
<td>Neon lamp</td>
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<td>RMR-A81</td>
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<td>Actuator 24 V DC</td>
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<td>RMR-F67</td>
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<tr>
<td>Polarity conversion kit (1)</td>
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<td>RMR-F391</td>
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<tr>
<td><strong>Mechanical interlocks</strong></td>
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<td>Key free, earth ON</td>
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<td>RMR-A277</td>
</tr>
<tr>
<td>Bowden LV reset EFPI type NB1</td>
<td>❌</td>
<td>❌</td>
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<td>RMR-A278</td>
</tr>
<tr>
<td>Bowden LV reset &amp; alarm type NB2</td>
<td>❌</td>
<td>❌</td>
<td>❌</td>
<td>RMR-A279</td>
</tr>
<tr>
<td>Bowden “RR” EFPI and CT</td>
<td>❌</td>
<td>❌</td>
<td>❌</td>
<td>RMR-A56</td>
</tr>
<tr>
<td>Fundamentals ER “FIND” EFPI and CT</td>
<td>❌</td>
<td>❌</td>
<td>❌</td>
<td>RMR-A57</td>
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<tr>
<td><strong>Ancillary items</strong></td>
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<tr>
<td>Tool box</td>
<td>❌</td>
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<td>RMR-A80</td>
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<tr>
<td><strong>Order code</strong></td>
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<tr>
<td>13.8 kV, 21 kA, 95 kV BIL, 0.55bG</td>
<td>SE6-S1/21</td>
<td>SE6-S2/21</td>
<td>SE6-E1/21</td>
<td></td>
</tr>
<tr>
<td>General arrangement drawing</td>
<td>RMINST-03 Page 92</td>
<td>RMINST-03 Page 92</td>
<td>RMINST-03 Page 92</td>
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<tr>
<td>Schematic drawing</td>
<td>N/A</td>
<td>RMSCH-29 Page 138</td>
<td>N/A</td>
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</table>

Key: ■ Standard feature ❌ Factory fitted accessory ❌ Loose accessory, assembled on site
(1) Only required when unit is used with RE2c ring main units and automation.
Switch disconnector
Protection & control - CB
Non-automatic

Documents
Installation drawing ref: RMINST-03
Schematic drawing ref: RMSCH-N/A

Environment
Indoor/outdoor
IP54

Ratings
Busbars 630 A
Short time withstand 21 kA 3 s
Internal arc 16/21 kA 1 s IAC class AF, A-FLR available on gas enclosure only
Normal current rating 630 A
Normal rated voltage 13.8 kV
Normal rated BIL 95 kV

Operating mechanism
Independent manual

Standard features
Cable earth switch, 21 kA 3 s
Anti-reflex operating handles

Indication
Mechanical ON/OFF indicator
Mechanical earth/main indicator
Gas pressure indicator

Test facility
Integral cable test facility

Cable
Bottom entry up to 300 mm² 1 x 3C
Bottom entry up to 630 mm² 3 x 1C

Accessories
VPIS indication
Glands and plates
Interlocks
Busbar kit
Top entry cables
See page 73 for details

Order information

<table>
<thead>
<tr>
<th>Code</th>
<th>Rating</th>
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<tbody>
<tr>
<td>SE6-S1/21</td>
<td>21 kA, 13.8 kV, 95 kV BIL</td>
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</table>
Switch disconnector
Protection & control - CB
Non-automatic

Documents
Installation drawing ref: RMINST-03
Schematic drawing ref: RMSCH-29

Environment
Indoor/outdoor
IP54

Ratings
Busbars 630 A
Short time withstand 21 kA 3 s
Internal arc 16/21 kA 1 s IAC class AF, A-FLR available on gas enclosure only
Normal current rating 630 A
Normal rated voltage 13.8 kV
Normal rated BIL 95 kV

Operating mechanism
Independent manual
Provision for actuator, 24 V DC

Standard features
Cable earth switch, 21 kA 3 s
Anti-reflex operating handle

Indication
Mechanical ON/OFF indicator
Mechanical earth/main indicator
Auxiliary contacts, 1NO 2NC
Earth selected auxiliary contact 1NO
Gas pressure indicator

Test facility
Integral cable test facility

Cable
Bottom entry up to 300 mm² 1 x 3C
Bottom entry up to 630 mm² 3 x 1C

Accessories
Actuator, 24 V DC
VPIS indication
Glands and plates
Interlocks
Busbar kit
Top entry cables
See page 73 for details

Order information
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<th>Code</th>
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<td>SE6-S2/21</td>
<td>21 kA, 13.8 kV, 95 kV BIL</td>
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</table>
Extensible switch 630 A
SE6-E1

Busbar earthing switch

Documents
Installation drawing ref: RMINST-03
Schematic drawing ref: RMSCH-N/A

Environment
Indoor/outdoor
IP54

Ratings
Busbars 630 A
Short time withstand 21 kA 3 s
Internal arc 16/21 kA 1 s IAC class AF, A-FLR available on gas enclosure only
Normal current rating 630 A
Normal rated voltage 13.8 kV
Normal rated BIL 95 kV

Operating mechanism
Independent manual

Standard features
Cable earth switch, 21 kA 3 s
Anti-reflex operating handle

Indication
Mechanical earth/main indicator
Gas pressure indicator

Test facility
N/A

Cable
N/A

Accessories
Interlocks
Busbar kit
See page 73 for details

Order information

<table>
<thead>
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<th>Code</th>
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<td>SE6-E1/21</td>
<td>21 kA, 13.8 kV, 95 kV BIL</td>
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</table>
## Circuit breaker, metering and switches

### Extensible bus-section 630 A

**Specification**

<table>
<thead>
<tr>
<th>Environment</th>
<th>SE6-B1</th>
<th>SE6-B3</th>
<th>SE6-B5</th>
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</thead>
<tbody>
<tr>
<td>Indoor / outdoor</td>
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<td></td>
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<tr>
<td>IP54</td>
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### Ratings

<table>
<thead>
<tr>
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<th>SE6-B1</th>
<th>SE6-B3</th>
<th>SE6-B5</th>
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<tbody>
<tr>
<td>Busbars 630 A</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Circuit breaker normal rated current 630 A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Switch normal rated current 630 A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12 kV 16 kA 3 seconds 75 kV BIL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13.8 kV 21 kA 3 seconds 95 kV BIL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RH busbar earth switch 16 kA 3 seconds</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RH busbar earth switch 21 kA 3 seconds</td>
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### Mechanism

<table>
<thead>
<tr>
<th></th>
<th>SE6-B1</th>
<th>SE6-B3</th>
<th>SE6-B5</th>
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</thead>
<tbody>
<tr>
<td>Independent manual</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Provision for actuator 24 V DC</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Actuator 24 V DC</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating handle</td>
<td></td>
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</table>

### Protection system

<table>
<thead>
<tr>
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<th>SE6-B1</th>
<th>SE6-B3</th>
<th>SE6-B5</th>
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</thead>
<tbody>
<tr>
<td>CT ratio - 800/1 A class X</td>
<td></td>
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</tr>
<tr>
<td>IDMT overcurrent &amp; earth fault relay - VIP 300</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20-250 V shunt trip coil</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Auxiliary switch1NO 2 NC</td>
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### Metering

<table>
<thead>
<tr>
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<th>SE6-B1</th>
<th>SE6-B3</th>
<th>SE6-B5</th>
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</thead>
<tbody>
<tr>
<td>CT’s - 400/200/5 A 0.5s 10 VA</td>
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</tr>
<tr>
<td>VT’s - 11 kA/110 V 0.5 50 VA</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VT’s phase - phase, CT’s R &amp; B</td>
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### Indication

<table>
<thead>
<tr>
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<th>SE6-B1</th>
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<th>SE6-B5</th>
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</thead>
<tbody>
<tr>
<td>Mechanical ON/OFF</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mechanical EARTH/MAIN</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Earth selected auxiliary contact1NO</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RH busbar VPIS indication</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Auxiliary switch contacts1NO 2NC</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Indication CT 600/5 A 5 VA CLS 1 Y phase</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ammeter 0-600 A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gas pressure indicator</td>
<td></td>
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</tbody>
</table>

### Integral test facility

<table>
<thead>
<tr>
<th></th>
<th>SE6-B1</th>
<th>SE6-B3</th>
<th>SE6-B5</th>
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</thead>
<tbody>
<tr>
<td>RH busbar earthing</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LH busbar earthing (using SE6-E1)</td>
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</table>

**Key:**  ■ Standard feature  ○ Optional feature
### Circuit breaker, metering and switches

**Extensible bus-section 630 A**
**Accessories**

<table>
<thead>
<tr>
<th>Installation items</th>
<th>SE6-B1</th>
<th>CE6-B3</th>
<th>CE6-B5</th>
<th>Kit no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 phase busbars 630 A</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>RMR-A14</td>
</tr>
<tr>
<td>3 phase busbars 630 A (Joggle metering)</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>RMR-A79</td>
</tr>
<tr>
<td>3 phase busbars 630 A double width (metering)</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>RMR-A78</td>
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<tr>
<td>Set of padlocks - XX no</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>RMR-A18/6</td>
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<tr>
<td>Busbar end kit (1 end kit required per switchboard)</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>RMR-A15</td>
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<tr>
<td>Foundation bolts (not required for transformer mounting)</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>RMR-A22</td>
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<tr>
<td>Multicore pilot glands</td>
<td>☐</td>
<td>☐</td>
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<table>
<thead>
<tr>
<th>Operational items</th>
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<tbody>
<tr>
<td>Operating handle</td>
<td>☐ ☐ ☐ RMR-A23</td>
</tr>
<tr>
<td>LH and RH busbar VPIS indication</td>
<td>☐ ☐ ☐ RMR-F92</td>
</tr>
<tr>
<td>Neon lamp test unit (including lamp)</td>
<td>☐ ☐ ☐ RMR-A24</td>
</tr>
<tr>
<td>Neon lamp</td>
<td>☐ ☐ ☐ RMR-A81</td>
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<tr>
<td>VAP6 test unit for VIP 300</td>
<td>☐ ☐ ☐ RMR-A202</td>
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<tr>
<td>Actuator 24 V DC</td>
<td>☐ ☐ ☐ RMR-F67</td>
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<tr>
<td>Polarity conversion kit (1)</td>
<td>☐ ☐ ☐ RMR-F391</td>
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<table>
<thead>
<tr>
<th>Mechanical interlocks</th>
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<tbody>
<tr>
<td>Key free, earth ON</td>
<td>☐ ☐ ☐ RMR-F85</td>
</tr>
<tr>
<td>Key free, main OFF</td>
<td>☐ ☐ ☐ RMR-F86</td>
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</table>

**N. B.** specify lock symbol at time of ordering (3 digits max) not available with motor mechanisms

<table>
<thead>
<tr>
<th>Ancillary items</th>
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</thead>
<tbody>
<tr>
<td>Tool box</td>
<td>☐ ☐ ☐ RMR-A80</td>
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<th>Order code</th>
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<tr>
<td>12 kV, 16 kA, 75 kV BIL, 0.35bG</td>
<td>N/A CE6-B3/16 CE6-B5/16</td>
</tr>
<tr>
<td>13.8 kV, 21 kA, 95 kV BIL, 0.55bG</td>
<td>SE6-B1/21 CE6-B3/21 CE6-B5/21</td>
</tr>
<tr>
<td>General arrangement drawing</td>
<td>RMINST-01 Page 90 RMINST-01 Page 90 RMINST-01 Page 90</td>
</tr>
<tr>
<td>Schematic drawing</td>
<td>N/A RMSCCH-21 Page 129 RMSCCH-22 Page 130</td>
</tr>
</tbody>
</table>

Key: ☐ Standard feature ☐ Factory fitted accessory ☐ Loose accessory, assembled on site (1) Only required when unit is used with RE2c ring main units and automation.
Circuit breaker, metering and switches

Extensible bus-section 630 A
SE6-B1

Bus-section disconnector
Protection & control
Non-automatic

Documents
Installation drawing ref: RMINST-01
Schematic drawing ref: N/A

Environment
Indoor/outdoor
IP54

Ratings
Busbars 630 A
Short time withstand 21 kA 3 s
Internal arc 16/21 kA 1 s IAC class AF, A-FLR available on gas enclosure only
Normal current rating 630 A
Normal rated voltage 13.8 kV
Normal rated BIL 95 kV

Operating mechanism
Independent manual

Standard features
RH busbar earth switch, 21 kA 3 s
Anti-reflex operating handle

Indication
Mechanical ON/OFF indicator
Mechanical earth/main indicator
Gas pressure indicator

Test facility
Integral RH busbar test facility

Cable
N/A

Accessories
VPIS indication
Interlocks
Busbars
See page 78 for details

Order information
<table>
<thead>
<tr>
<th>Code</th>
<th>Rating</th>
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</thead>
<tbody>
<tr>
<td>SE6-B1/21</td>
<td>21 kA, 13.8 kV, 95 kV BIL</td>
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</tbody>
</table>
**Circuit breaker, metering and switches**

**Extensible bus-section 630 A**

**CE6-B3**

---

**Bus-section circuit breaker**

**Protection & control - CB**
Self powered IDMT overcurrent and earth fault relay, VIP 300. In accordance with IEC 60255 and BS142.
Protection CT's - 800/1 A class X
Shunt trip coil, 20 V DC-250 V AC

- Setting range:
  - Overcurrent: 80-800 A
  - Earth fault: 8-640 A

**Metering transformers**

- Metering CT's
  - 400/200/5 A
  - 10 VA class 0.5s
- Metering VT ph-ph
  - 11 kV/110 V 50 VA
  - class 0.5

**Documents**

Installation drawing ref: RMINST-01
Schematic drawing ref: RMSCH-21

**Environment**

Indoor/outdoor

**Ratings**

- Busbars 630 A
- Short time withstand 16/21 kA 3 s
- Internal arc 16/21 kA 1 s IAC class AF, A-FLR available on gas enclosure only
- Normal current rating 630 A
- Normal rated voltage 13.8 kV
- Normal rated BIL 75/95 kV

**Operating mechanism**

- Independent manual

**Standard features**

- RH busbar earth switch, 16/21 kA 3 s
- Anti-reflex operating handle

**Indication**

- Mechanical tripped on fault flag indicator
- Mechanical ON/OFF indicator
- Mechanical earth/main indicator
- Auxiliary contacts, 1NO 2 NC
- Ammeter 0-600 A
- Indication CT Y ph- 600/5 A class 1.0 5 VA
- Gas pressure indicator

**Test facility**

Integral RH busbar test facility

**Cable**

N/A

**Accessories**

- VPIS indication
- Interlocks
- Busbars

See page 78 for details

**Order information**

<table>
<thead>
<tr>
<th>Code</th>
<th>Rating</th>
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<tbody>
<tr>
<td>CE6-B3/16</td>
<td>16 kA, 12 kV, 75 kV BIL</td>
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<tr>
<td>CE6-B3/21</td>
<td>21 kA, 13.8 kV, 95 kV BIL</td>
</tr>
</tbody>
</table>
Extensible bus-section 630 A
CE6-B5

Bus-section circuit breaker

Protection & control - CB
Self powered IDMT overcurrent and earth fault relay, VIP 300. In accordance with IEC 60255 and BS142.

Protection CT’s - 800/1 A class X
Shunt trip coil, 20 V DC-250 V AC

Setting range:
- Overcurrent: 80-800 A
- Earth fault: 8-640 A

Metering transformers
- Metering CT’s
  - 400/200/5 A
  - 10 VA class 0.5s
- Metering VT ph-ph
  - 11 kV/110 V 50 VA
  - class 0.5

Documents
Installation drawing ref: RMINST-01
Schematic drawing ref: RMSCH-22

Environment
Indoor/outdoor
IP54

Ratings
Busbars 630 A
Short time withstand 16/21 kA 3 s
Internal arc 16/21 kA 1 s IAC class AF, A-FLR available on gas enclosure only
Normal current rating 630 A
Normal rated voltage 13.8 kV
Normal rated BIL 75/95 kV

Operating mechanism
Independent manual
Provision for actuator, 24 V DC

Standard features
RH busbar earth switch, 16/21 kA 3 s
Anti-reflex operating handle

Indication
Mechanical tripped on fault flag indicator
Mechanical ON/OFF indicator
Mechanical earth/main indicator
Auxiliary contacts, 1NO 2 NC
Earth selected auxiliary contacts 1NO
Ammeter 0-600 A
Indication CT Y ph- 600/5 A class 1.0 5 VA
Gas pressure indicator

Test facility
Integral RH busbar test facility

Cable
N/A

Accessories
Actuator, 24 V DC
VPIS indication
Interlocks
Busbars
See page 78 for details

Order information

<table>
<thead>
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<th>Code</th>
<th>Rating</th>
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<tbody>
<tr>
<td>CE6-B5/16</td>
<td>16 kA, 12 kV, 75 kV BIL</td>
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<tr>
<td>CE6-B5/21</td>
<td>21 kA, 13.8 kV, 95 kV BIL</td>
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</table>
# Contents

**Telecontrol cabinet**
- Easergy T200 E - Specification  
- Easergy T200-E02M  
- Easergy T200-E04M
# Telecontrol cabinet
## Easergy T200 E - Specification

<table>
<thead>
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<th>Easergy T200-E02M</th>
<th>Easergy T200-E04M</th>
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<tr>
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<td>■</td>
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<td>IP54</td>
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<table>
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<tbody>
<tr>
<td>Modbus</td>
<td>■</td>
<td>■</td>
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<tr>
<td>IEC 61850-5-101 and IEC 61850-5-104</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>DNP3</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>2 additional modem ports with GSM or GPRS</td>
<td>■</td>
<td>■</td>
</tr>
</tbody>
</table>

## Standard features
- Freestanding/wall mounted/switchgear mounted ■ ■
- Removable radio bracket (no radio supplied) ■ ■

## Inputs to cabinet
- Switch open - per switch ■ ■
- Switch closed - per switch ■ ■
- Earth selector earth/mains - per switch ■ ■
- Spare - per switch ■ ■

## Control output to switchgear
- To switch
  - Open switch ■ ■
  - Close switch ■ ■
  - Reset external FPI ■ ■

## Output to SCADA
- Switch open ■ ■
- Switch closed ■ ■
- Earth selector earth/main ■ ■
- Fault passage indication - phase and/or earth fault ■ ■

## From cabinet
- Local/remote failure ■ ■
- Mains/equipment failure ■ ■
- Battery and charger alarms ■ ■

## Local control
- Push button open/close switch ■ ■
- Local/remote selector ■ ■
- Reset/test integral FPI ■ ■
- Power restart ■ ■

## Local indication
- Mains present ■ ■
- Battery fault ■ ■
- Internal supplies on ■ ■
- Switch status - open/closed ■ ■
- FPI operated ■ ■
- Local/remote mode selected ■ ■
- Equipment fault (watchdog) ■ ■

## Battery and charger
- Telecomms equipment - 12 V DC ■ ■
- Control unit - 12 V DC ■ ■
- Power supply 90-270 V AC 50 Hz 120 VA ■ ■
- Switchgear 24 V DC ■ ■
- 1 x 24 Ah sealed lead acid ■ ■
- 20 degrees C, 3 hours after loss of supply ■ ■
- 5 c/o switch operations ■ ■

**Key:** ■ Standard feature  ❍ Optional feature
Telecontrol cabinet
Easergy T200-E02M
Easergy T200-E04M

Telecontrol cabinet - Up to 2 switch control (T200-E02M)
Telecontrol cabinet - Up to 4 switch control (T200-E04M)

Local indication
Mains failure, battery fault, internal supplies on,
Switch status - open/closed, FPI operated, local/remote mode selected, equipment fault (Watchdog)

Inputs to cabinet
Switch open
Switch closed
Earth selector earth/mains
3 spare

Control outputs to switchgear
- To switch
  - Open switch
  - Close switch
  - Reset FPI

Local control
Push button open/close switch
Local/remote selector
Reset/test integral FPI

Optional features
- Integral phase and earth fault passage indicator
- 3 phase RMS current measurement
- Wall mounted/freestanding

Documents
Installation drawing ref: RMINST-11
Schematic drawing ref: RMSCH-17

Environment
Indoor/outdoor
IP54

Dimensions
480 x 370 x 280 mm

Communication
- Modbus
  - IEC 870-5-101 and IEC 870-5-104
  - DNP3
  - 2 additional modem ports with GSM or GPRS

Standard features
Switchgear mounted removable radio bracket (no radio/modem supplied)

Outputs to SCADA
- Switch open
- Switch closed
- Earth selector earth/main
- Fault passage indication - phase and/or earth fault
- From cabinet
  - Local/remote mode
  - Mains/equipment failure
  - other configurable alarms

Batteries and charger
Telecomms equipment - 12 V DC
Control unit - 12 V DC
Switchgear - 24 V DC
1 x 24 Ah sealed lead acid

Power supply
90-270 V AC 50 Hz 120 VA

Autonomy
20°C 5 hours after loss of supply
5 C/O switch operations
Deep discharge protection

Order information
T200-E02M
T200-E04M
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Installation drawings

Typical switchboard

Front
Note: door shown closed

Side
Note: door shown open

Star point
Test cover
Removable
side sheet
Operating
handle

Plan

Note: for installation where overpressure relief of the equipment is required please contact Schneider Electric Tel: +44 (0)113 290 3500

Note: for civil engineering and recommendations for internal arc clearances please consult our installation and maintenance instructions Ref: SE 6251 or contact Schneider Electric Tel: +44 (0)113 290 3500
Installation drawings

Extensible unit
ref RMINST-01

Panel type | Page number
---|---
SE6-B1 | 79
CE6-B3 | 80
CE6-B5 | 81

Approximate weight: 450 kg

Note: for installation where overpressure relief of the equipment is required please contact Schneider Electric Tel: +44 (0)113 290 3500

Note: for civil engineering and recommendations for internal arc clearances please consult our installation and maintenance instructions Ref: SE 6251 or contact Schneider Electric Tel: +44 (0)113 290 3500
Installation drawings

Extensible unit
ref RMINST-02

Panel type | Page number
---|---
CE2-T3 | 58
CE2-T11 | 58
CE2-T13 | 61
CE2-T14 | 60
CE2-T19 | 58
CE2-T20 | 58
CE2-T21 | 60
CE6-T5 | 68
CE6-T6 | 68
CE6-T9 | 71
CE6-T10 | 71
CE6-T22 | 68
CE6-T23 | 71
CE6-T24 | 68

Approximate weight: 450 kg

Note: for installation where overpressure relief of the equipment is required please contact Schneider Electric Tel: +44 (0)113 290 3500

Note: for civil engineering and recommendations for internal arc clearances please consult our installation and maintenance instructions Ref: SE 6251 or contact Schneider Electric Tel: +44 (0)113 290 3500
Installation drawings

Extensible unit
ref RMINST-03

Front
Note: door shown closed

Side
Note: door shown open

Panel type  Page number
CE2-T2  56
CE2-T7  57
CE2-T12  59
CE6-T4  67
CE6-T8  69
SE6-S1  74
SE6-S2  75
SE6-E1  76

Approximate weight: 250 kg

Note: for installation where overpressure relief of the equipment is required please contact Schneider Electric Tel: +44 (0)113 290 3500

Note: for civil engineering and recommendations for internal arc clearances please consult our installation and maintenance instructions Ref: SE 6251 or contact Schneider Electric Tel: +44 (0)113 290 3500
Non-extensible unit
ref RMINST-04

Installation drawings

Panel type | Page number
---|---
CN2-T1 | 38
CN2-T6 | 39
SN6-S1 | 43
SN6-S2 | 44

Approximate weight: 250 kg

Note: for installation where overpressure relief of the equipment is required please contact Schneider Electric Tel: +44 (0)113 290 3500

Note: for civil engineering and recommendations for internal arc clearances please consult our installation and maintenance instructions Ref: SE 6251 or contact Schneider Electric Tel: +44 (0)113 290 3500
Installation drawings

Extensible ring main unit
c/w tee off cable box
ref RMINST-22

Panel type | Page number
---|---
RE2c-T1 | 30
RE2c-T2 | 31
RE2c-T3 | 32
RE2c-T4 | 33

Approximate weight: 300 kg

Note: for installation where overpressure relief of the equipment is required please contact Schneider Electric Tel: +44 (0)113 290 3500

Note: for civil engineering and recommendations for internal arc clearances please consult our installation and maintenance instructions Ref: SE 6251 or contact Schneider Electric Tel: +44 (0)113 290 3500
Installation drawings

Non-extensible ring main unit
for transformer mounting unit
ref RMINST-06

Panel type          Page number
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RN2c-T2             20
RN2c-T3             21
RN2c-T4             22
RN2c-T5             23
RN6c-T1             25

Approximate weight: 300 kg

Note: for installation where overpressure relief of the equipment is required please contact Schneider Electric
Tel: +44 (0)113 290 3500

Note: for civil engineering and recommendations for internal arc clearances please consult our installation and maintenance instructions Ref: SE 6251 or contact Schneider Electric
Tel: +44 (0)113 290 3500

DE59812
DE60268
AMTED399086EN.indd

RN2c-T1
19
RN2c-T2
20
RN2c-T3
21
RN2c-T4
22
RN2c-T5
23
RN6c-T1
25

Approximate weight: 300 kg

Note: for installation where overpressure relief of the equipment is required please contact Schneider Electric
Tel: +44 (0)113 290 3500

Note: for civil engineering and recommendations for internal arc clearances please consult our installation and maintenance instructions Ref: SE 6251 or contact Schneider Electric
Tel: +44 (0)113 290 3500

Schneider Electric
Non-extensible ring main unit
c/w MU2 metering unit & tee off cable box
ref RMINST-08

Installation drawings

Panel type | Page number
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MU2-M2     | 48          
MU2-M3     | 49          
MU6-N1     | 52          
MU6-N2     | 52          
MU6-N3     | 52          
MU6-N5     | 52          

Approximate weight: 200 kg (MU2 only)

MU2 shown connected to a non-extensible ring main unit

Note: for installation where overpressure relief of the equipment is required please contact Schneider Electric Tel: +44 (0)113 290 3500

Note: for civil engineering and recommendations for internal arc clearances please consult our installation and maintenance instructions Ref: SE 6251 or contact Schneider Electric Tel: +44 (0)113 290 3500
Installation drawings

Non-extensible metering unit
ref RMINST-07

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MU2-M3 | 49
MU6-N1 | 52
MU6-N2 | 52
MU6-N3 | 52
MU6-N5 | 52

Approximate weight: 450 kg

Note: for installation where overpressure relief of the equipment is required please contact Schneider Electric Tel: +44 (0)113 290 3500

Note: for civil engineering and recommendations for internal arc clearances please consult our installation and maintenance instructions Ref: SE 6251 or contact Schneider Electric Tel: +44 (0)113 290 3500
Installation drawings

Telecontrol cabinet
ref RMINST-11

Panel type Page number
Easergy T200-E02 85
Easergy T200-E04 85

Approximate weight: 30 kg (Easergy only)

Note: for installation where overpressure relief of the equipment is required please contact Schneider Electric
Tel: +44 (0)113 290 3500

Note: for civil engineering and recommendations for internal arc clearances please consult our installation and maintenance instructions Ref: SE 6251 or contact Schneider Electric
Tel: +44 (0)113 290 3500
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Non-extensible / extensible ring main units 104
ref RMSCH-01, RMSCH-02, RMSCH-03, RMSCH-15, RMSCH-43, RMSCH-44, RMSCH-45, RMSCH-46

Non-extensible ring main unit 112
RMSCH-42

Non-extensible metering unit 113
ref RMSCH-14

Non-extensible / extensible circuit breaker units 114
ref RMSCH-47, RMSCH-48, RMSCH-49, RMSCH-50

Non-extensible circuit breaker units 118
ref RMSCH-11, RMSCH-26

Extensible circuit breaker units 120

Non-extensible switch units 137
ref RMSCH-28, RMSCH-29

Telecontrol unit block diagram 139
ref RMSCH-17
Conditions
1. All relays de-energised
2. Switches shown in open position
3. Auxiliary switch only operated between main ‘ON’ and main ‘OFF’ position (i.e. does not operate in earth position).

CT and VT types
CT1 3 phase protection CT’s
CT2 1 phase indication CT
CT3 2 phase metering CT
CT4 Easergy 200E phase & earth fault CT
VT1 Ph-Ph metering VT (2 phases)
VT2 Ph-E metering VT (3 phases)

CT & VT Ratios

<table>
<thead>
<tr>
<th>Panel type</th>
<th>CT1</th>
<th>CT2</th>
<th>CT3</th>
<th>CT4</th>
<th>VT1</th>
<th>VT2</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE6-T4</td>
<td>800/1 A</td>
<td>600/5 A</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Class X</td>
<td>5 VA Class 1.0</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>CE6-T5</td>
<td>800/1 A</td>
<td>600/5 A</td>
<td>400/200/5 A</td>
<td>10 VA Class 0.5s</td>
<td>11000/110 V</td>
<td>50 VA Class 0.5</td>
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<tr>
<td></td>
<td>Class X</td>
<td>5 VA Class 1.0</td>
<td></td>
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</tr>
<tr>
<td>CE6-T6</td>
<td>800/1 A</td>
<td>600/5 A</td>
<td>400/200/5 A</td>
<td>10 VA Class 0.5s</td>
<td>6600/110 V</td>
<td>50 VA Class 0.5</td>
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<tr>
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<td>Class X</td>
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<td>CE6-T8</td>
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<td>600/5 A</td>
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<td>10 VA Class 0.5s</td>
<td>11000/110 V</td>
<td>50 VA Class 0.5</td>
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<tr>
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</tr>
<tr>
<td>CE6-T10</td>
<td>800/1 A</td>
<td>600/5 A</td>
<td>400/200/5 A</td>
<td>10 VA Class 0.5s</td>
<td>6600/110 V</td>
<td>50 VA Class 0.5</td>
</tr>
<tr>
<td></td>
<td>Class X</td>
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<td></td>
<td></td>
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</tr>
<tr>
<td>CE6-T22</td>
<td>800/1 A</td>
<td>600/5 A</td>
<td>400/200/5 A</td>
<td>10 VA Class 0.5s</td>
<td>13800/110 V/110 V</td>
<td>50 VA Class 0.5</td>
</tr>
<tr>
<td></td>
<td>Class X</td>
<td>5 VA Class 1.0</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>CE6-T23</td>
<td>800/1 A</td>
<td>600/5 A</td>
<td>400/200/5 A</td>
<td>10 VA Class 0.5s</td>
<td>13800/110 V/110 V</td>
<td>50 VA Class 0.5</td>
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<tr>
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<td>Class X</td>
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<tr>
<td>CE6-T24</td>
<td>800/1 A</td>
<td>600/5 A</td>
<td>400/200/5 A</td>
<td>10 VA Class 0.5s</td>
<td>11000/110 V/110 V</td>
<td>50 VA Class 0.5</td>
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<tr>
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<td>Class X</td>
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<td></td>
<td></td>
<td></td>
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<td>CE6-T25</td>
<td>800/400/1 A</td>
<td>500/1 A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CE6-B3</td>
<td>800/1 A</td>
<td>600/5 A</td>
<td>400/200/5 A</td>
<td>10 VA Class 0.5s</td>
<td>11000/110 V</td>
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</tr>
<tr>
<td></td>
<td>Class X</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CE6-B5</td>
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<td>600/5 A</td>
<td>400/200/5 A</td>
<td>10 VA Class 0.5s</td>
<td>11000/110 V</td>
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</tr>
<tr>
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<td>Class X</td>
<td>5 VA Class 1.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SE6-S2</td>
<td>800/1 A</td>
<td>600/5 A</td>
<td>500/1 A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Class X</td>
<td>5 VA Class 1.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SN6-S2</td>
<td>800/1 A</td>
<td>600/5 A</td>
<td>500/1 A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Class X</td>
<td>5 VA Class 1.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Schematic diagrams

Ring main units accessories

Ringswitch 1

VPIS INDICATION
RMR-F341 (11-13.8kV)
RMR-F348 (3.3-7.2kV)

Motion Pack
Auxiliary Switch
Termination Kit

Motor

EASERGY T200 CT's FOR INTERNAL FAULT PASSAGE INDICATOR
RMR-F310

Ringswitch 2

VPIS INDICATION
RMR-F341 (11-13.8kV)
RMR-F348 (3.3-7.2kV)
Schematic diagrams

Ring main units accessories

Circuit breaker

VPIS INDICATION
RMR-F340 (11-13.8kV)
RMR-F348 (3,3-7,2kV)

MOTOR F.A.C.
RMR-F367

MOTOR SWITCHE
STANDARD FEATURE

TERMINATION KIT
IMPAFTR (FAST and FAST)

INDICATION

GAS PRESSURE
SWITCH
RMR-F368

SHUNT TRIP COIL
RMR-F581
RMR-F582

COMM.

PCB

24V/80V AC/DC

103
Non-extensible / extensible ring main unit
ref RMSCH-01

Panel type | Page number
---|---
RN2c-T1 | 19
RE2c-T1 | 30

For explanation of symbols see page 100
Non-extensible / extensible ring main unit
ref RMSCH-02

Panel type | Page number
-----------|-----------
RN2c-T3    | 21        
RE2c-T3    | 32        

For explanation of symbols see page 100
Non-extensible / extensible ring main unit
ref RMSCH-03

Panel type | Page number
-----------|-------------
RN2c-T2    | 20
RE2c-T2    | 31

For explanation of symbols see page 100
Non-extensible / extensible ring main unit
ref RMSCH-15

Panel type | Page number
---|---
RN2c-T4 | 22
RE2c-T4 | 33

For explanation of symbols see page 100
Non-extensible / extensible ring main unit
ref RMSCH-43

Panel type | Page number
---|---
RN2c-T25 | 24
RE2c-T25 | 34

For explanation of symbols see page 100
Schematic diagrams

Non-extensible / extensible ring main unit
ref RMSCH-44

Panel type | Page number
---|---
RN2c-T25 | 24
RE2c-T25 | 34

For explanation of symbols see page 100
Non-extensible / extensible ring main unit
ref RMSCH-45

Schematic diagrams

Panel type Page number
RNZe-T25 24
REEc-T25 34

For explanation of symbols see page 100
Non-extensible / extensible ring main unit
ref RMSCH-46

Panel type | Page number
--- | ---
RN2c-T25 | 24
RE2c-T25 | 34

For explanation of symbols see page 100
Schematic diagrams

Non-extensible ring main unit
ref RMSCH-42

Panel type | Page number
---|---
RN6c-T1 | 25

For explanation of symbols see page 100
Non-extensible metering unit
ref RMSCH-14

Schematic diagrams

Panel type | Page number
-----------|------------
MU2-M1     | 47
MU2-M2     | 48
MU2-M3     | 49
MU6-N1     | 52
MU6-N2     | 52
MU6-N3     | 52
MU6-N5     | 52

For explanation of symbols see page 100
Non-extensible / extensible circuit breaker units
ref RMSCH-47

Schematic diagrams

Panel type | Page number
---|---
CN2-T25 | 40
CE2-T25 | 64
CE6-T25 | 70
For explanation of symbols see page 100
Schematic diagrams

Non-extensible / extensible circuit breaker units
ref RMSCH-48

Panel type | Page number
---|---
CN2-T25 | 40
CE2-T25 | 64
CE6-T25 | 70

For explanation of symbols see page 100
Non-extensible / extensible circuit breaker units
ref RMSCH-49

For explanation of symbols see page 100
Non-extensible / extensible circuit breaker units
ref RMSCH-50

Schematic diagrams

Outputs

- TRIP CB
- TRIPPER ON FAULT
- TRIPPER ON BLOCK SEND
- RELAY WATCHDOG

Inputs

- CIRCUIT BREAKER OPEN
- CIRCUIT BREAKER CLOSED
- EXTERNAL TRIP
- SPARE

14 CAN BE REASSIGNED TO DECOMPOSITION BLOCK RECEIVE IN COMPACT OPERATING MODE

Panel type | Page number
---|---
CN2-T25 | 40
CE2-T25 | 64
CE6-T25 | 70

For explanation of symbols see page 100

For explanation of symbols see page 100
Non-extensible circuit breaker units
ref RMSCH-11

For explanation of symbols see page 100
Non-extensible circuit breaker units
ref RMSCH-26

Panel type | Page number
---|---
CN2-T1 | 38

For explanation of symbols see page 100
Schematic diagrams

Extensible circuit breaker units
ref RMSCH-06

Panel type | Page number
---|---
CE2-T7 | 57

For explanation of symbols see page 100
Schematic diagrams

Extensible circuit breaker units
ref RMSCH-07

Panel type | Page number
--- | ---
CE2-T2 | 56

For explanation of symbols see page 100
Schematic diagrams

Extensible circuit breaker units
ref RMSCH-08

Panel type | Page number
---|---
CE6-T4 | 67

For explanation of symbols see page 100
Schematic diagrams

Extensible circuit breaker units
ref RMSCH-09

Panel type | Page number
--- | ---
CE2-T3 | 58
CE2-T51 | 58

For explanation of symbols see page 100
Schematic diagrams
Extensible circuit breaker units
ref RMSCH-10

Panel type  Page number
CE6-T5  68
CE6-T6  68

For explanation of symbols see page 100
Schematic diagrams

Extensible circuit breaker units
ref RMSCH-12

For explanation of symbols see page 100
Schematic diagrams

Extensible circuit breaker units
ref RMSCH-13

Panel type | Page number
---|---
CE2-T16 | 63

For explanation of symbols see page 100
Schematic diagrams

Extensible circuit breaker units

ref RMSCH-19

Panel type | Page number
---|---
CE2-T12 | 59

For explanation of symbols see page 100
Schematic diagrams

Extensible circuit breaker units
ref RMSCH-20

Panel type | Page number
---|---
CE2-T13 | 61
CE2-T14 | 60

For explanation of symbols see page 100
Extensible circuit breaker units
ref RMSCH-21

Panel type | Page number
---|---
CE6-B3 | 80

For explanation of symbols see page 100
Schematic diagrams
Extensible circuit breaker units
ref RMSCH-24

Panel type | Page number
---|---
CE6-T9 | 71
CE6-T10 | 71

For explanation of symbols see page 100
Schematic diagrams

Extensible circuit breaker units
ref RMSCH-35

Panel type | Page number
---|---
CE2-T19 | 58
CE2-T20 | 58

For explanation of symbols see page 100
Schematic diagrams

Extensible circuit breaker units
ref RMSCH-36

Panel type | Page number
--- | ---
CE2-T21 | 60

For explanation of symbols see page 100
Schematic diagrams Extensible circuit breaker units
ref RMSCH-38

Panel type Page number
CE6-T23 71
For explanation of symbols see page 100

For explanation of symbols see page 100
Schematic diagrams

Non-extensible switch units

ref RMSCH-28

Panel type | Page number
---|---
SN6-S2 | 44

For explanation of symbols see page 100
Schematic diagrams

Non-extensible switch units
ref RMSCH-29

Panel type | Page number
---|---
SE6-S2 | 75

For explanation of symbols see page 100
Schematic diagrams

Telecontrol unit block diagram
ref RMSCH-17

For explanation of symbols see page 100

<table>
<thead>
<tr>
<th>Panel type</th>
<th>Page number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Easergy T200-E02M</td>
<td>85</td>
</tr>
<tr>
<td>Easergy T200-E04M</td>
<td>85</td>
</tr>
</tbody>
</table>

Fault detection options:

3 phases CT’s for internal phase and earth fault passage indicator

or

Single CT for external earth fault passage indicator
<table>
<thead>
<tr>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summary</td>
</tr>
<tr>
<td>Description</td>
</tr>
<tr>
<td>Non-extensible ring main unit</td>
</tr>
<tr>
<td>c/w angled ring cable gland plates - ref RMINST-05</td>
</tr>
<tr>
<td>Tee-off cable box fitted to SN6/CN2</td>
</tr>
<tr>
<td>ref RMINST-09</td>
</tr>
<tr>
<td>Ringmaster range cabling accessories</td>
</tr>
<tr>
<td>ref RMINST-10</td>
</tr>
<tr>
<td>Protection options</td>
</tr>
</tbody>
</table>
Schneider Electric are able to provide a number of accessories to enhance the basic unit specifications. These accessories are detailed within the panel type specifications.

**Accessories**
These are dispatched either:
- Fitted to the unit within the works - these are accessories that are either too bulky, or need testing prior to despatch: ie; RMR-F47 - tee-off cable box
- Loose, boxed, for you to assemble on site. These items are either those that need to be supplied loose to ease installation: ie RMR-A48 which is a gland plate, or test equipment such as RMR-A202, VAP6.

**Options**
The following pages clarify options:
- RMR-F47 - Tee-off cable box (drawing RMINST 05/09)
- RMR-A50 - Angled gland tray (drawing RMINST 10)
- RMR-A317 - Angled gland tray (drawing RMINST 05)
### RMR-A14/A15/A78/A79

**Busbar assemblies**
- Each kit comprises a three phase set of busbars, 630 A

Specify at time of ordering:
- 1 off RMR-A15 - end panel kit, plus busbar kits
- Quantity required = No. of panels - 1

Note: Different busbar kits are required for metering units and bus-sections.

Busbars are dispatched loose.

### RMR-A17

**Time fuse links**
- 2 off time fuse links for overcurrent protection

<table>
<thead>
<tr>
<th>Order code</th>
<th>Rating</th>
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</thead>
<tbody>
<tr>
<td>RMR-A17/3</td>
<td>3 amp</td>
</tr>
<tr>
<td>RMR-A17/5</td>
<td>5 amp</td>
</tr>
<tr>
<td>RMR-A17/7</td>
<td>7.5 amp</td>
</tr>
<tr>
<td>RMR-A17/10</td>
<td>10 amp</td>
</tr>
<tr>
<td>RMR-A17/12</td>
<td>12.5 amp</td>
</tr>
<tr>
<td>RMR-A17/15</td>
<td>15 amp</td>
</tr>
</tbody>
</table>

### RMR-A202

**VAP 6 test unit**
- Check operation of VIP 300, VIP 30 & VIP35 IDMT relays, unit injects 20 x Is to verify operation of microprocessor and outputs, and trip the CB.

Complete with batteries.
Non-extensible ring main unit

c/w angled ring cable gland plates

ref RMINST-05

Accessories

Panel type | Page number
--- | ---
RN2c-T1 | 19
RN2c-T2 | 20
RN2c-T3 | 21
RN2c-T4 | 22
RN2c-T5 | 23

Approximate weight: 300 kg

The above drawings refer to RMR-F324 tee-off cable box and RMR-A317 angled gland plate.

Note: for installation where overpressure relief of the equipment is required please contact Schneider Electric Tel: +44 (0)113 290 3500
Accessories

Tee-off cable box fitted to SN6/CN2
ref RMINST-09

Front
Note: door shown closed

Side

Panel type | Page number
---|---
CN2-T1 | 38
CN2-T6 | 39
SN6-S1 | 43
SN6-S2 | 44

Note: for installation where overpressure relief of the equipment is required please contact Schneider Electric Tel: +44 (0)113 290 3500
Ringmaster range
cabling accessories
ref RMINST-10

<table>
<thead>
<tr>
<th>Panel type</th>
<th>Page number</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE2</td>
<td>53-64</td>
</tr>
<tr>
<td>CE6</td>
<td>65-71</td>
</tr>
<tr>
<td>SE6</td>
<td>72-79</td>
</tr>
<tr>
<td>CN2</td>
<td>36-40</td>
</tr>
<tr>
<td>SN6</td>
<td>41-44</td>
</tr>
</tbody>
</table>

Approximate weight: 250 kg
Three types of protection systems are available for Ringmaster

- Time Fuse Links - CT operated trip coils with provision for Time Fuse Links (TFL).
- VIP Protection relays - self-powered IDMT, DT overcurrent and earth fault relays.
- Sepam series 10 - IDMT, DT overcurrent, earth fault and thermal overload with advanced functions and Modbus.

**TFL protection**

An effective low cost option without compromising reliability.

CT operated trip coils (with TFL) provides phase overcurrent and earth fault inverse time protection, the characteristic being given by a Time Fuse Link (TFL).

This option is suitable for transformer protection up to 1600 kVA.

**Recommended Time Fuse Link (TFL) settings to ESI 12-6**

<table>
<thead>
<tr>
<th>Voltage Transformer rated power (kVA)</th>
<th>kV</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>315</td>
</tr>
<tr>
<td>CT ratio = 50/5</td>
<td></td>
</tr>
<tr>
<td>earth fault setting = 25 A</td>
<td></td>
</tr>
<tr>
<td>(instantaneous trip)</td>
<td></td>
</tr>
<tr>
<td>3.3</td>
<td>10 A</td>
</tr>
<tr>
<td>6.6</td>
<td>5 A</td>
</tr>
<tr>
<td>11</td>
<td>3 A</td>
</tr>
<tr>
<td>13.8</td>
<td>3 A</td>
</tr>
<tr>
<td>3.3</td>
<td>5 A</td>
</tr>
</tbody>
</table>

**Benefits**

- Low cost
- Fast clearance of LV faults
- Simple to replace
- Proven protection to EA standards
- Fast tripping for MV earth faults
- Improved discrimination with LV fuse

**Principle of operation**

The current transformer feeds a trip coil that is normally shunted by a time fuse link. In the event of a fault the fuse ruptures, diverting all the fault current through the trip coil, tripping the breaker. A residually connected trip coil provides instantaneous earth fault protection.

**Protection application guide**

<table>
<thead>
<tr>
<th>Product</th>
<th>CE2, CN2, RN2c, RE2c</th>
<th>CE6, RN6c</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application</td>
<td>Transformers</td>
<td>Transformers</td>
</tr>
<tr>
<td>Time Fuse Link</td>
<td>200-1600 kVA</td>
<td>400-3800 kVA</td>
</tr>
<tr>
<td>IDMT VIP 300</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: a protection co-ordination study may be necessary to verify the type of protection. Consult your local Schneider Electric sales engineer if in doubt.

**Protection selection guide**

<table>
<thead>
<tr>
<th>Primary current (A)</th>
<th>10</th>
<th>20</th>
<th>80</th>
<th>100</th>
<th>125</th>
<th>200</th>
<th>630</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equivalent transformer rating at 11 kV</td>
<td>200 kVA</td>
<td>400 kVA</td>
<td>1600 kVA</td>
<td>1900 kVA</td>
<td>2400 kVA</td>
<td>3800 kVA</td>
<td>12000 kVA</td>
</tr>
<tr>
<td>Transformer protection</td>
<td>CE2/CN2 Time Fuse Link</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transformer protection</td>
<td>RE2c/RN2c IDMT - VIP 30/35</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Feeder protection</td>
<td>CE6/RN6c IDMT - VIP 300</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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### Overview
Building systems and solutions
Industrial systems and solutions
Energy and infrastructure systems and solutions

### Order form
Ring Main Unit (RMU)
Ring Modular Range (RMR)

### Index
Overview

With over 100 years experience in the electrical industry, Schneider Electric has established itself as a world leader in the supply and manufacture of products for the distribution, monitoring and control of electrical power.

Schneider Electric regards its customers as commercial partners, who, like us, demand the highest standards of excellence in terms of products, projects and services.

Schneider Electric is proud to provide the solutions to meet their needs.

Schneider Electric operates the largest, dedicated sales force in the electrical industry. Sales engineers have specialist expertise and an understanding of the customer needs within each of the following market sectors:
- Building systems and solutions
- Industrial systems and solutions
- Energy and infrastructure systems and solutions.
The real reason for putting technology into buildings is to simplify tasks, enhance safety and improve the quality of life. Schneider Electric knows this and has created attractive, functional products for the residential building sector. Well being comfort and entertainment are key concepts in this area.

The same objectives apply to commercial buildings such as offices, hotels, shopping centres, hospitals, schools and care facilities for the elderly. Schneider Electric offer a wide range of solutions in the area of building management services and uses its expertise in all of these buildings to protect people and equipment.

**Schneider Electric means greater comfort, lower operating costs and enhanced safety.**

**Related industries**
- Retail
- Education
- Health
- Entertainment centres
- Offices
- Warehouses
- Agriculture
- Factory
- Private residential
- Public residential.

**Principal customers in the construction market**
- Contracting authorities
- Main contractors
- Building engineers.
Overview
Industrial systems and solutions

Schneider Electric focus on performance in all areas of industry. Our products and services adapt to each specific business and environment, from discrete manufacturing and production lines to continuous processes in a wide variety of industries such as:
- Automotive
- Food and beverage
- Pharmaceuticals
- Construction materials
- Waste management.

Across a wide range of applications including:
- Conveyors
- Packaging
- Materials handling
- Hoisting.
Schneider Electric is involved in the entire electrical distribution chain from power plants to end users. Customer demand for complete availability, uncompromising quality and absolute safety has made the search for excellence our key mission. Today, electrical substation and network protection, monitoring and control are highly effective in reducing outage time. Proven technologies offer a wide range of simple, efficient and flexible solutions for optimised, step by step investments.

**Infrastructure**

Schneider Electric is involved in developing infrastructure and transportation systems around the world. In areas where no failures can be tolerated, such as road and rail equipment, harbour installations and airports, Schneider Electric provides solutions in electrical distribution, control and monitoring, automation and supervision.

**Key markets**
- Electricity distribution
- Water
- Rail
- Airports
- Seaports
- Defence
- Gas
- Telecommunications
- Road.

**Principal customers in the electric power market**
- Power suppliers involved in generation and distribution
- Utility companies
- Major contractors
- Large end user sites
- Government departments.
## Schneider Electric, an overview and order form

### Order form
#### Ring Main Unit (RMU)

<table>
<thead>
<tr>
<th>Basic RMU configuration</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated voltage $U_r$</td>
<td>(kV)</td>
</tr>
<tr>
<td>Impulse rating and short-time withstand</td>
<td>21 kA 3 s, 95 kVbil</td>
</tr>
</tbody>
</table>

### RMU configuration and protection

<table>
<thead>
<tr>
<th>Protection</th>
<th>RN2c 200 A CB (non extensible)</th>
<th>RE2c 200 A CB (left and right)</th>
<th>RE2c 200 A CB (right extensible)</th>
<th>RN6c 630 A CB (non extensible)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TLF</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VIP 30</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VIP 35</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VIP 300</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sepam 10</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Metering

- Green box X corresponds to none priced functions.
- Only one of the boxes (ticked X or filled square) by the needed value) have to be considered between each horizontal line.

### Options for circuit breaker

<table>
<thead>
<tr>
<th>Transformer type</th>
<th>Freestanding mounted</th>
<th>Freestanding top</th>
<th>Freestanding bottom</th>
</tr>
</thead>
<tbody>
<tr>
<td>RN2c and RE2c</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RN6c</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Operational items

- Shunt trip coil: 20-48 Vdc, 110-250 Vac/dc
- Motor pack (remote electrical operation): 24 Vdc, 30 Vdc

#### Mechanical key interlock

- (not available with motor option)
- Key free main OFF
- Key free earth ON

#### Circuit breaker cable test facility

- Low gas pressure switch
- Mechanical trip push button

#### VPIS

- (only with freestanding option)
- 3.3-7.2 kV
- 15-13.8 kV

### Options for ring switch 1 - left hand side

- Remote electrical indication (auxiliary switch): 1 x N/O, 1 x N/C
- Motor pack (remote electrical operation): 24 Vdc, 30 Vdc

#### MV cable entry

- RN2c Top
- RN6c Bottom

#### Earth fault passage indication

- (includes external current transformer)
- Bardin Flair 212
- Horstman Earth/M 2.0

#### Easergy T200 current transformers

- Voltage Presence Indication VPIS
- 3.3-7.2 kV
- 15-13.8 kV

### Options for ring switch 2 - right hand side

- Remote electrical indication (auxiliary switch): 1 x N/O, 1 x N/C
- Motor pack (remote electrical operation): 24 Vdc, 30 Vdc

#### MV cable entry

- RN2c Top
- RE2c and RN6c Bottom

#### Earth fault passage indication

- (includes external current transformer)
- Bardin Flair 212
- Horstman Earth/M 2.0

#### Easergy T200 current transformers

- Voltage Presence Indication VPIS
- 3.3-7.2 kV
- 15-13.8 kV

### Busbar extension trunking

- (for RE2c to RMR circuit breaker or switch)
- RE2c only

### Accessories

<table>
<thead>
<tr>
<th>Phase comparitor</th>
<th>VAP6</th>
</tr>
</thead>
<tbody>
<tr>
<td>TLF fuses (A)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>7.5</td>
</tr>
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<td></td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>12.5</td>
</tr>
<tr>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

Connection for Easergy - RMU

Enter number of functions required.
Schneider Electric, an overview and order form

Order form
Ring Modular Range (RMR)

Only one of the boxes (picked or filled by the needed value) have to be considered between each horizontal line. Green box corresponds to none priced functions.

### Basic RMR configuration

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated voltage Ur (kV)</td>
<td></td>
</tr>
<tr>
<td>Short-circuit current Isc (kA)</td>
<td></td>
</tr>
<tr>
<td>Load of circuit (A)</td>
<td></td>
</tr>
</tbody>
</table>

### Panel configuration and protection

<table>
<thead>
<tr>
<th>Protection</th>
<th>Non Extensible</th>
<th>Extensible</th>
</tr>
</thead>
<tbody>
<tr>
<td>TLF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VIP 300</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sepam 10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bus section</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Metering</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Options

<table>
<thead>
<tr>
<th>Freestanding</th>
<th>Non Extensible</th>
<th>Extensible</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bottom</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Transformer mounted (direct connection)</th>
<th>Non Extensible</th>
<th>Extensible</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shunt trip coil (multi acid voltage range)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remote electrical operation (actuator 24 Vdc)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mechanical key free earth ON</td>
<td></td>
<td></td>
</tr>
<tr>
<td>key interlock key free mean OFF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remote electrical operation (low gas pressure switch)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Voltage Range</th>
<th>Non Extensible</th>
<th>Extensible</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.3-7.2 kV</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15-13.8 kV</td>
<td></td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>EFPI (includes external EFPI CT)</th>
<th>Non Extensible</th>
<th>Extensible</th>
</tr>
</thead>
<tbody>
<tr>
<td>VPIS 3.3-7.2 kV</td>
<td></td>
<td></td>
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<tr>
<td>Bardin Flair 212</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Horstman Earth / M 2.0</td>
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</table>

### Accessories

<table>
<thead>
<tr>
<th>Busbar</th>
<th>Non Extensible</th>
<th>Extensible</th>
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</thead>
<tbody>
<tr>
<td>Phase comparitor</td>
<td></td>
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<tr>
<td>VAP6</td>
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<td>12.5</td>
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<td>15</td>
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<tr>
<td>Connection for Easergy - RMR</td>
<td>Enter number of functions required</td>
<td></td>
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<tr>
<td>VIP protection</td>
<td>7, 147</td>
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</tbody>
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Please note: Due to the constant progress in standards and equipment, the characteristics shown in the texts and images in this document are only binding once expressly confirmed by ourselves.