



## Product Description:

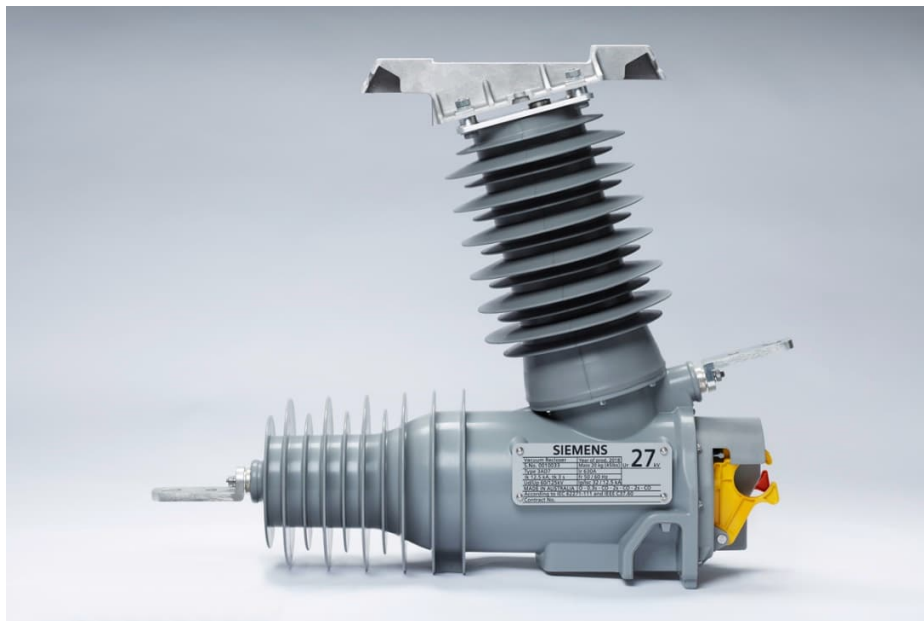
Siemens has more than 30 years of experience in vacuum switching technology and is a leader in the field of digital protection technology. The type CMR (Compact Modular Recloser) combines cutting-edge technology with quality engineering experience in relay protection schemes for which Siemens is known.

The Siemens Compact Modular Recloser is a solid dielectric insulated, vacuum interrupting, magnetically actuated circuit breaker which does not require a tank construction. The Siemens Compact Modular Recloser can be installed, removed or maintained by accepted methods without damage, and has no scheduled or routine maintenance to be performed. The Siemens Compact Modular Recloser is rated to IP 67 and all surfaces are designed to prevent accumulation of water. Self-powered by means of the "Voltage Power Stack Module", the Siemens Compact Modular Recloser has a plug-in, rechargeable Battery Module for backup power.

The internal and external surfaces of the Siemens Compact Modular Recloser deliver a service life of 25 years under the specified service conditions.

Bushing terminals are available as either a 2-hole NEMA palm or a clamp style.

Suitable for pole and crossarm mounting, both pole-mount and crossarm brackets are available. Integrated surge arrester mounting brackets are provided on both source and load sides of the bracket.



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## Features

### Features include:

- Ratings of 17.5kv and 27kV, 630A, 12.5kA and 38kV, 630A, 6.3kA
- Hot stick operation of tripping and closing as well as lockout selection
- Advanced vacuum interruption technology
- Operations counter and position indication
- User configurable operations sequence
- High Intensity Fault Indication LED
- Wireless Local Communication Capability

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## System Specifications and General Bill of Material:

### Item 1) Compact Modular Recloser, 17.5kV, 12.5kA, 630A, 110kV BIL

<b>CMR Part Number</b>	<b>3AD7141-2CA10-0AA0</b>
Recloser Type	Single Phase
Rated Maximum Voltage (BIL)	17.5kV (BIL=110kV)
Rated Short Circuit	12.5kA
Rated Normal Current	630A
Minimum line to ground voltage for Self-Powering	7kV
Operating temperature Range	-40 to +55 deg C
Mounting Type	Cross Arm Mounting Clamp
Terminal	630A Two Hole terminal (silver plated aluminum), with wildlife guard
Battery Module	Included
Configuration and Programming	Operational Parameters may be programmed at the factory prior to shipment.

### Item 2) Compact Modular Recloser, 27kV, 12.5kA, 630A, 125kV BIL

<b>CMR Part Number</b>	<b>3AD7151-2CA10-0AA0</b>
Recloser Type	Single Phase
Rated Maximum Voltage (BIL)	27kV (BIL=125kV)
Rated Short Circuit	12.5kA
Rated Normal Current	630A
Minimum line to ground voltage for Self-Powering	10kV
Operating temperature Range	-40 to +55 deg C
Mounting Type	Cross Arm Mounting Clamp
Terminal	630A Two Hole terminal (silver plated aluminum), with wildlife guard
Battery Module	Included
Configuration and Programming	Operational Parameters may be programmed at the factory prior to shipment.

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**Item 3) Compact Modular Recloser, 27kV, 12.5kA, 630A, 150kV BIL**

<b>CMR Part Number</b>	<b>3AD7161-2CA10-0AA0</b>
Recloser Type	Single Phase
Rated Maximum Voltage (BIL)	27kV (BIL=150kV)
Rated Short Circuit	12.5kA
Rated Normal Current	630A
Minimum line to ground voltage for Self-Powering	10kV
Operating temperature Range	-40 to +55 deg C
Mounting Type	Cross Arm Mounting Clamp
Terminal	630A Two Hole terminal (silver plated aluminum), with wildlife guard
Battery Module	Included
Configuration and Programming	Operational Parameters may be programmed at the factory prior to shipment.

**Item 4) Compact Modular Recloser, 27kV, 12.5kA, 630A, Three Phase**

<b>CMR Part Number</b>	<b>3AD7351-5QB10-0AA0</b>
Recloser Type	Three Phase
Rated Maximum Voltage (BIL)	27kV (BIL=125kV)
Rated Short Circuit	12.5kA
Rated Normal Current	630A
Minimum line to ground voltage for Self-Powering	8.9kV
Operating temperature Range	-40 to +55 deg C
Mounting Type	Pole Mounting Assembly with 1L – 2R arrangement
Terminal	630A Two Hole Palm (tin plated aluminum), with wildlife guard
Battery Module	Included
Configuration and Programming	Operational Parameters may be programmed at the factory prior to shipment.

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#### Item 5) Optional PC Communications Kit

Part Number	Description
P3RFSAPCCOM	<p>PC Communications kit (USB radio antenna 3AX1350-1C and 3' USB extension cable) which allows configuration and monitoring via secure wireless connection.</p> <p>(Note: this USB antenna is inserted into a laptop to provide communications with the integrated radio of the CMR. Each antenna can connect to any of a utility's CMRs. At least one is required to allow configuration and interrogation of the CMRs).</p>

#### Item 6) Optional Battery Module Attachment Tool

Part Number	Description
3AX1370-1C	Hot-stick mounted attachment tool to facilitate battery replacement when unit is in service.

#### Item 7) Optional Pole-Mount Bracket

Part Number	Description
3AX1370-8C	Aluminum pole-mount bracket for use with the CMR crossarm bracket clamp.

#### Item 8) Remote Control Unit (RCU)

RCU Part Number	3AD8800-0BB31-2AA1
Battery Type	7.2Ah Lead Acid
Enclosure	304 Stainless Steel, Powder Coated
Mounting Assembly	Standard Pole Mounting Assembly, 304 SS
Firmware Application	Compact Recloser – DNP3 and IEC 104
RCU Isolator and Heater	Not Included
Operator Panel	Not Included

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**Item 9) Optional RCU Operator Panel (Independent Poles)**

Part Number	Description
3AX1350-8R	RCU operator panel for independent poles (single phase) CMRs.

**Item 10) Optional RCU Operator Panel (Optically Ganged Poles)**

Part Number	Description
3AX1350-8U	RCU operator panel for optically ganged poles (three phase) CMRs.

**Item 11) Optional CMR Battery Module, Including Batteries**

Part Number	Description
3AX1370-1A	CMR Battery module with Batteries

**Item 12) Optional CMR Desktop Battery Module Charger**

Part Number	Description
P3RBATCHRGR	CMR Desktop Battery Module Charger

**Item 13) Optional Powered PC Communications Kit**

Part Number	Description
P3RFSAPCCOMP	<p>Powered PC Communications kit.</p> <p>(Note: this USB antenna is inserted into a laptop to provide communications with the integrated radio of the CMR. Each antenna can connect to any of a utility's CMRs. At least one is required to allow configuration and interrogation of the CMRs).</p>

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**Item 14) Optional RCU External Antenna Assembly**

Part Number	Description
P3RRCUEXTANT	RCU external antenna assembly,

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