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Compact Modular Recloser (CMR)

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Intelligent. Compact. Self-powered by voltage. A new class of single-phase recloser.

By eliminating regular maintenance and utilizing line voltage for the power supply, the new modular auto-recloser addresses common problems of hydraulic reclosers. The CMR is rated for voltage systems up to 38 kV and features an insulated housing that covers all live parts. The lightweight device permits easy installation and fast commissioning, plus the ability for wireless firmware and configuration updates.

Key features

Fully integrated self-powered system:

- Power supply using line voltage
- Rechargeable battery for backup power
- Magnetic-actuated vacuum interrupter
- Integrated protection relay and controller
- Flexible mounting options.

Intelligent:

- Wireless connectivity
- GPS time reference
- SCADA capability (future)
- Voltage and current measurement
- Fault-passage indication (FPI)
- Comprehensive event log
- Full range of TCC curves.

Compact:

- Lightweight 48.5 lbs (22 kg) excluding mounting bracket
- Simple and quick to install.

Reliable and reduced maintenance

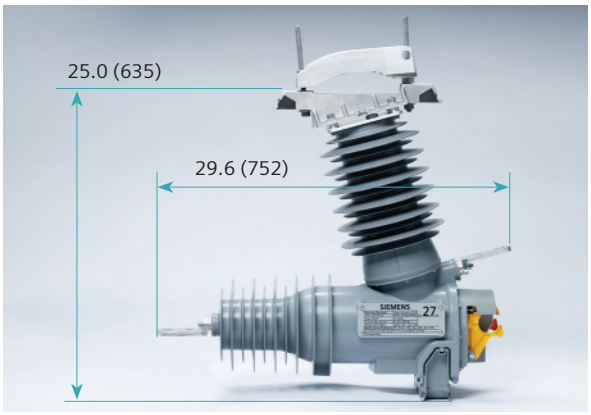
The CMR is suitable for all sites where the system voltage is less than 38 kV and the prospective short-circuit level is less than 12.5 kA (6.3 kA at 38 kV), even those with inconsistent or no line current. Featuring fully configurable protection and four operations in a sequence, the CMR presents the ideal solution for clearing transient faults on long rural distribution lines.

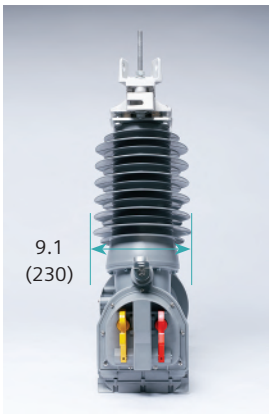
The system design facilitates uninterrupted operation for reliable service. Unlike hydraulic reclosers, the CMR has no need for periodic inspection and maintenance.

CMR compact modular recloser ratings

Type tested according to IEC 62271-111 / IEEE C37.60

Rating description					Model[1]
Rated maximum voltage	kV	17.5	27	27	38
Rated power-frequency withstand – dry	kV	50	60	60	70
Rated impulse-withstand voltage	kV	110	125	150	170
Switch unit parameters					**Rating**
Rated frequency	Hz				50/60
Rated continuous current	A				630
Rated short-time withstand current	kA	12.5	12.5	12.5	6.3
Rated peak-withstand current	kA	32.5	32.5	32.5	16.4
Rated duration of short circuit	s				3
Rated symmetrical interrupting current	kA	12.5	12.5	12.5	6.3
Rated symmetrical fault-making current	kA	12.5	12.5	12.5	6.3
Rated operating sequence					O – 0.3s – CO – 2s – CO – 2s – CO
Clearing time	ms				<50 ms
Rated line-charging interrupting current	A				5
Rated cable-charging interrupting current	A	25	25	25	40
Minimum number of operations at rated short-circuit current		70	70	70	240
Minimum number of load-break operations at rated current/mechanical operations					10,000
IP rating					67
Service environment					**Rating**
Operating temperature range					-40 to +131 °F (-40 to +55 °C)
Humidity					0 to 100%
Maximum altitude					13,124 ft (4,000 m)[2]
Pollution class					Very heavy





Footnotes:

1. "Correct model must be selected for the applicable system voltage (27 kV model cannot be used on a 12 kV network).
2. "Derating required above 13,124 ft (4,000 m).

ISO 9001
AS/NZS 4801
OHSAS 18001
ISO 14001

BUREAU VERITAS
Certification

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