

сомраст модицая recloser (смя) Intelligent. Compact. Self-powered by Voltage

For greater flexibility, utilities can choose between pre-configured options as a drop-in alternative to a traditional hydraulic recloser or to self-configure the devices to take advantage of advanced protection, measurement and logging features.

Fully integrated self-powered system:

- Power supply using line voltage
- Rechargeable battery for back-up power
- Magnetic actuated vacuum interrupter
- Fully insulated design for improved operator safety
- Integrated protection relay and controller
- Flexible mounting options

Intelligent

- Wireless connectivity
- Simple and intuitive configuration tools
- GPS time reference
- SCADA capability (future)
- Voltage and current measurement

Leading the way

Superior ratings up to 38 kV and unique self-powering via line voltage put the CMR at the forefront of the single-phase auto-recloser market. It presents a quantum leap in technology for cost effectively improving the reliability of overhead medium voltage networks. Featuring a fully insulated housing in a compact design, the lightweight device (<25 kg) permits easy installation and fast commissioning. An intuitive interface, wireless connectivity and SCADA integration capability ensure a high degree of user convenience and flexibility. The comprehensive rating options and practical design of the CMR enable unrestricted deployment onto both urban and rural networks. By eliminating the need for regular maintenance and utilising line voltage as power supply, this new generation of single-phase auto-recloser addresses all common problems of obsolete hydraulic reclosers.

- Fault passage indication (FPI)
- Comprehensive event log
- Full range of TCC curves

Reliable and maintenance free

The auto-recloser is suitable for all sites, even those with inconsistent or no line current. Featuring fully configurable protection and four operations in a sequence, the unit is the ideal solution for sectioning faults on long rural distribution lines.

Unlike hydraulic reclosers, which need removal to be serviced and maintained regularly, the CMR switch unit has no need of periodic inspection and maintenance. It is designed to deliver a 25-year uninterrupted service life^(a).

Benefits







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Compact Recloser Ratings

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

kV											
	kV		up to 27 kV		38						
Hz		50/60		50/60							
A		630		630							
kA		12.5		6.3							
kA		32.5		16.4							
S		3		3							
kA		12.5		6.3							
kA		12.5		6.3							
		0 – 0.3s – CO – 2s – CO – 2s – CO		0 – 0.3s – CO – 2s – CO – 2s – CO							
ms		<20 ms		<20 ms							
ms		<50 ms		<50 ms							
A		5		5							
A		25		40							
		70 10,000 67		240 							
						Unit	Mode	el ^(b)			
						kV	12	17.5	27	27	38
kV	28	50	60	60	70						
kV	95	110	125	150	170						
kV	7	10	15.5	15.5	20						
Service Environment				Rating							
Operating temperature range				-40 ^(c) to +55°C							
Humidity				0 to 100%							
Maximum altitude				4,000m ^(d)							
Pollution class				Very Heavy							
	kA kA s kA kA kA ms Ms A A Unit kV kV	kA kA s kA kA kA ms A A KV 12 kV 28 kV 95	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	kA 12.5 kA 32.5 s 3 kA 12.5 kA 12.5 kA 12.5 kA 12.5 $0 - 0.3s - CO - 2s$ $-CO - 2s - CO$ ms <50 ms	kA 12.5 6.3 kA 32.5 16.4 s 3 3 kA 12.5 6.3 ms -CO - 2s - CO -CO - 2 ms <20 ms						

(a) Excludes routine battery replacements every eight years.

(b) Correct model must be selected for the applicable system voltage (27kV model cannot be used on a 12kV network).

- (c) Reclose intervals must be extended at temperatures below -35°C.
- (d) De-rating required above 1,000m.





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