

MEDIUM VOLTAGE PRODUCTS

# OVR three phase vacuum reclosers

Safe and reliable protection for smart networks



ABB offers its complete range of three phase mechanically ganged vacuum reclosers suitable for distribution networks up to 38kV in accordance to dual logo IEC 62271-111/IEEE C37.60 2012. Advance protection functions and communication protocols make it a reliable solution for smart outdoor networks and substations.



### Operator safety at its best

- Secured and safe manual emergency trip handle to avoid closing in emergency situations
- No maintainable electronics in high voltage cabinet



### Reliable also in extreme conditions

- Solid dielectric design with HCEP (Hydrophobic Cycloaliphatic Epoxy Polymer) insulating material ensures superior performances over a longer service period
- Excellent performances even in high pollution environment
- State-of-the-art magnetic actuation and vacuum interrupters ensures switching performance over life time



### Fast to install, easy operation & maintenance

- Site ready units – reduced installation time, effort and cost
- Flexible mounting option for single/ double pole or substation frame available
- Draw out protection Relion® relay for quick and easy maintenance or replacement
- Relay configuration and settings can be managed from front panel HMI, web-based user interface or connectivity tool

Technical characteristics	Units	OVR-15	OVR-27	OVR-38
<b>Standards IEEE 62271-111 /IEEE C37.60 (2012)</b>				
Nominal operating voltage	kV	Upto 15	Upto 27	Upto 38
Rated maximum voltage	kV	15.5	27	38
Rated power frequency	Hz	50/60	50/60	50/60
Rated continuous normal current	A	630	1000	1200
Rated short time current withstand capacity	kA	12.5 for 3 sec	12.5 for 3 sec	16 for 3 sec
Rated peak withstand current	kAp	31.25	31.25	40
Rated lightning impulse withstand voltage (BIL)	kVP	110	125	170
Rated power frequency withstand voltage (1 min dry)	kV	50	60	70
Rated symmetrical interrupting current	kA	12.5	12.5	16
Rated line charging current (CC)	A	2	5	5
Rated operating (reclosing) sequence		O-0.2s-CO-2s-CO-2s-CO		
Minimum operation (CO cycles) at rated continuous current	Operations	10000		
Auxiliary power supply voltage	Vac	110 / 240		
Type of battery pack		Sealed lead acid rechargeable		
Standard battery bank offering	V (AH)	24 (26) <sup>1</sup>		
Standard battery back-up	Hrs	24 <sup>1</sup>		
Current sensor per recloser		3 Nos. current transformer		
Voltage sensor per recloser		3 or 6	3 or 6 <sup>2</sup>	3 or 6 <sup>2</sup>
Interrupting media		Vacuum interrupter		
Type of mechanism		Bi-stable magnetic actuator		
Ambient temperature range	°C	-40 to +55		
Altitude	m	3000 <sup>3</sup>		
Minimum external creepage distance	mm (inch)	480 (19)	960 (37.7)	1306 (51)
Weight of HV unit	kg	140	140	175
Controller (IED)		Relion® RER615		

<sup>1</sup> Higher battery performances available on request

<sup>2</sup> 3 in-built voltage sensors and 3 additional external sensors can be provided separately on request

<sup>3</sup> For altitudes above 1000m, suitable de-rating has to be considered as per IEC 62271-111/IEC C37.100.1-2007

- 01 ABB recloser control and protection cabinet with Relion RER615<sup>1</sup> IED
- 02 OVR 15
- 03 OVR 27
- 04 OVR 38



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