



Lucy Electric Aegis^{EcoTec} non-SF6 Ring Main Unit

A breath of fresh air for electrical distribution

DS0153 R1 Lucy Electric Aegis^{EcoTec} Datasheet 06/2024

The Aegis^{EcoTec} non-SF6 Ring Main Unit (RMU) range is designed to be smaller and more efficient, while maintaining compatibility with standard installation requirements. As a result, the EcoTec range provides the same set of solutions for substations as conventional equivalents, but in a more compact and optimised package.

Across the Aegis range, operator safety is paramount with integral interlocking at the forefront of its innovative mechanism design. With a clear, unambiguous mimic and 100% padlockable human-machine interface (HMI), this solution is straightforward and secure.

To ensure the high industrial and operational reliability NZ's networks need, Aegis^{EcoTec}

12kV non-SF6 RMUs use the same core mechanism design as the hugely successful Aegis RMU range which is installed worldwide.

Aegis^{EcoTec} non-SF6 RMU uses synthetic air bringing environmental advantages for medium voltage (MV) switchgear. For load break switching, a new architecture is necessary.

Aegis^{EcoTec} non-SF6 RMU uses a small load break vacuum interrupter (VI) shunted across the main current-carrying contacts. This shunt VI breaks the load current, ensuring there is no arcing of the main current-carrying contacts.

Range

Aegis ^{EcoTec}	Width (mm)	Depth (mm)	Height (mm)
2-way	720	704	1669
3-way	1060	704	1669
4-way	1400	704	1669

Technical Data

Parameters	Specifications	12kV
Rated voltage	kV	12
Rated frequency	Hz	50
Rated impulse withstand voltage	kV	95
Rated power frequency withstand voltage	kV	38
Short time withstand current	kA	20
Rated duration of short circuit	Seconds	3
Short peak withstand current	kA	52.5
Internal arc classification		AF/AFL/AFLR
Internal arc rating: Tank	kA 1 second	20
Cable Box	kA 1 second	13.5 / 20
Ingress protection: Outdoor	IP	54
Indoor	IP	41
Temperature range	°C	-25 to +40
Maximum relative humidity	%	95

Circuit Breaker Function

Parameters	Specifications	12kV
Rated normal current: T function	A	250
V function	A	630
Mechanical endurance	Class	M1
Electrical endurance	Class	E2

Load Break Function

Parameters	Specifications	12kV
Rated normal current	A	630
Mechanical endurance	Class	M1
Electrical endurance	Class	E3

Other literature available on request

Reports, drawings, technical data sheets, installation instructions, O&M guidelines

