



GVR 38 / 10

For Wind Farm Applications

The GVR 38 / 10 is part of the award winning GVR family combining the high reliability of vacuum interruption with the controlled environment and high dielectric strength of SF₆ in a compact, maintenance-free unit. (By utilising SF₆ for insulation only, there is no health hazard from the toxic by-products of arcing)

The patented, single coil magnetic actuator provides consistent performance and a dramatic reduction in moving parts. Materials and finishes have been carefully chosen for reliability - from the epoxy separable bushing interface to the neodymium iron boron magnets used in the mechanism.



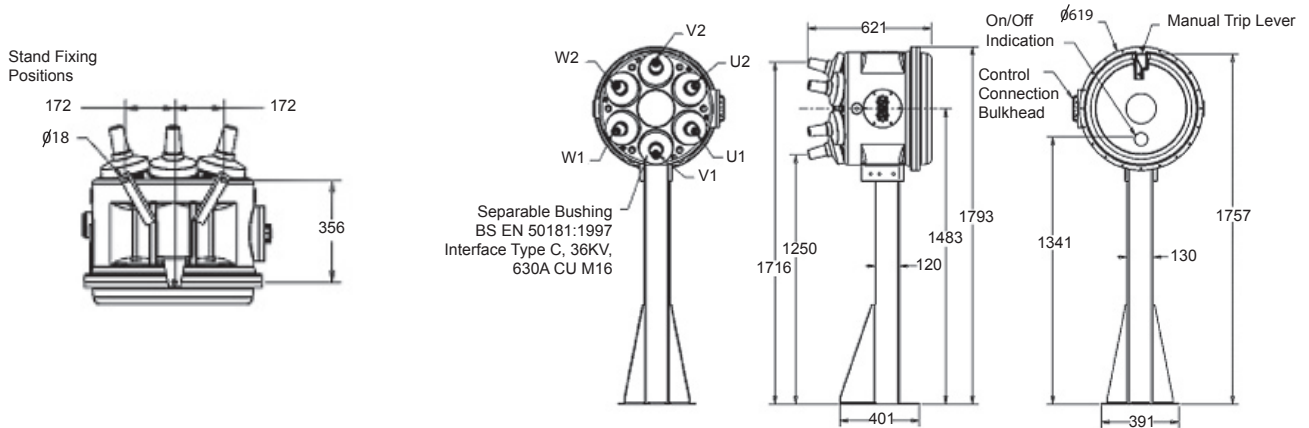
Application

The GVR 38 / 10 is a stand-alone, circuit breaker, which can be used to isolate individual wind turbines for faults which do not affect other parts of the network. The power required to operate the control circuitry and mechanism is obtained from an in-built dc battery charger. The unit is supplied with a remote wall mountable control box, which houses the protection and control equipment. In addition to this the unit has the facility to be remotely controlled via a SCADA package.

Key Features

- » Award winning patented single coil magnetic actuator mechanism
- » Environmentally friendly vacuum interruption produces no toxic by-products
- » Lightweight aluminium tank makes the GVR-38/10 easier to transport and install
- » Epoxy separable bushings are provided for quick disconnection of a faulted tower
- » Extensive use of insulated mouldings, in particular the bushings, the total number of parts have been reduced by a factor of x20 and the number of moving parts by x50
- » No scheduled maintenance (excludes control batteries)
- » The unit can be supplied pre-wired to allow the circuit breaker to be remotely controlled
- » Unidirectional - senses fault current in either direction

DIMENSIONS (In mm)



ACCESSORIES

GVR 38 / 10 CIRCUIT BREAKER DETAILS

Rated Voltage (kV)	36
Short Circuit Rating (kA)	10
Current Rating (A)	630
Impulse Rating BIL (kV)	150

CONTROL & INDICATION

Mechanical On / Off Indicator	■
Gas Pressure Sensor	○
1 CO Auxiliary Contact for customer use	■
Pressure Relief Disk to IEC 60298	■
Local / Remote selector switch	■
Trip / Neutral / Close switch	■
Operations Counter	■
Lamp Test Facility	■
CB Status	■
AC Fail Alarm	■
Battery Volts low	■
Transformer Alarms	■
Remote Control	■
Manual Trip / Lockout Lever	■

PROTECTION

3 ph Overcurrent	50/51	■
Earth Fault	50N/51N	■
Auxiliary Alarm / Trip		○
Winding Temperature Alarm / Trip	23	○
Low Gas Alarm	74	○

CURRENT TRANSFORMER

Protection / Indication	3 off 600/300/1A, 5P20, 2.5VA	○
	3 off 400/200/1A, 5P20, 2.5VA	○
	3 off 200/100/1A, 5P20, 2.5VA	○

VOLTAGE SENSORS

Indication CVT's	38000/110, 3%	○
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CABLING

Incoming	3 x 1 core	■
	6 x 1 core	○
	9 x 1 core	○
Outgoing	3 x 1 core	■

Key: ■ Standard
○ Optional

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