

Water and Wastewater

Water and wastewater facilities must operate reliably and safely, which is why Bender has developed solutions suitable for practically any resistance grounded electrical system within the facility. Modern systems often employ variable frequency drives (VFDs), also referred to as adjustable speed drives (ASDs), that require special consideration to be adequately protected. These types of AC/DC loads are best protected by devices capable of monitoring their entire operating frequency range to capture both AC and DC ground faults. Bender's RCM and NGRM products provide this advanced level of protection and can be included in turnkey HRG packages. Their ability to detect very low fault current allows pre-warning of ground faults that can cause significant damage to capital equipment.

Benefits



Continuity of service

Control fault current and have alarm-only operation on the first ground-fault.



Reduces maintenance costs

Measurable decrease in maintenance costs due to the accuracy of detection and decreased need for human interaction with the system.



Automatically locates faults

Automatic fault location eliminates the need for opening branch circuit breakers or disconnecting equipment. With the addition of second-ground-fault protection, prioritization allows for selective tripping of the lower priority feeder.



Improved safety

Reduces potential for shock and arc flash hazard. Arc flash is reduced by as much as 95%. Automatic fault location at feeders and loads can eliminate the need to open doors on energized equipment during troubleshooting.



Ease of retrofit

Ability to easily and cost-effectively upgrade older equipment.

Neutral Grounding Resistor Monitors

1 NGRM700



- Improves safety with monitoring of the grounding resistor and allows for simple preventative maintenance
- Full frequency ground-fault monitoring provides AC/DC ground-fault protection
- NGRM700 provides program and display information without opening doors using door mounted HMI
- NGRM500 offers same technology in a simplified design with compact DIN rail mount

2 NGRM500



Residual Current Monitor

3 RCMS490

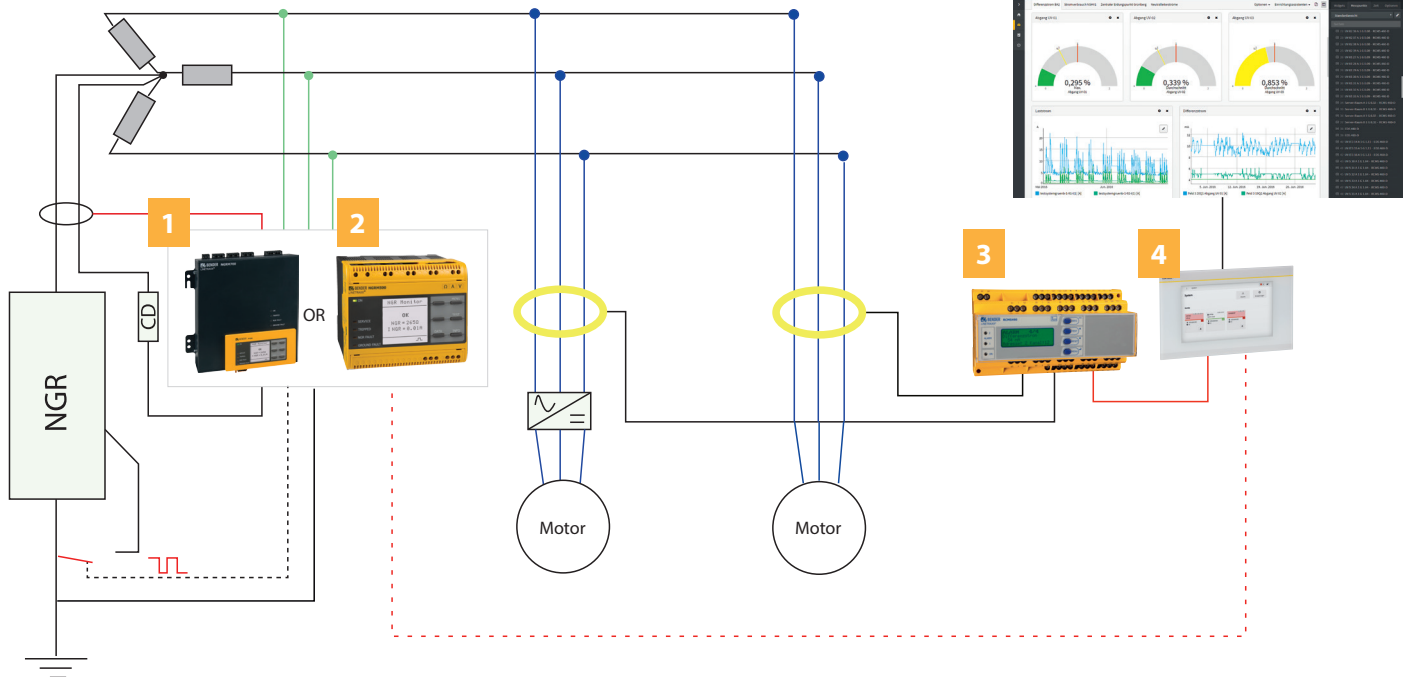
- Recognizes, locates, and prevents destructive ground-fault conditions
- Safeguards sensitive manufacturing equipment by detecting low level ground-fault currents
- Monitors a wide AC/DC range of frequencies and harmonics that can cause nuisance tripping



Condition Monitor & Communications Gateway

4 CP907-I

- Centralized monitoring of all connected Bender and third-party devices
- Enables quick and easy access to reporting functions
- Offers remote troubleshooting, programming, and diagnostics



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