



D S P O H M N I S Y S T E M



The **DSP SYSTEM** is designed to detect the event of a single ground fault, signal an alarm, and point to the affected branch or feeder. Thus maintenance can be immediately alerted to the problem and an operator dispatched to locate the fault to isolate it promptly.

The DSP system can assist in locating the fault with a pulsing fault location circuit. In the event of a second ground fault, the DSP acts quickly to prevent loss of two feeders by selectively tripping the lower priority feeder only.



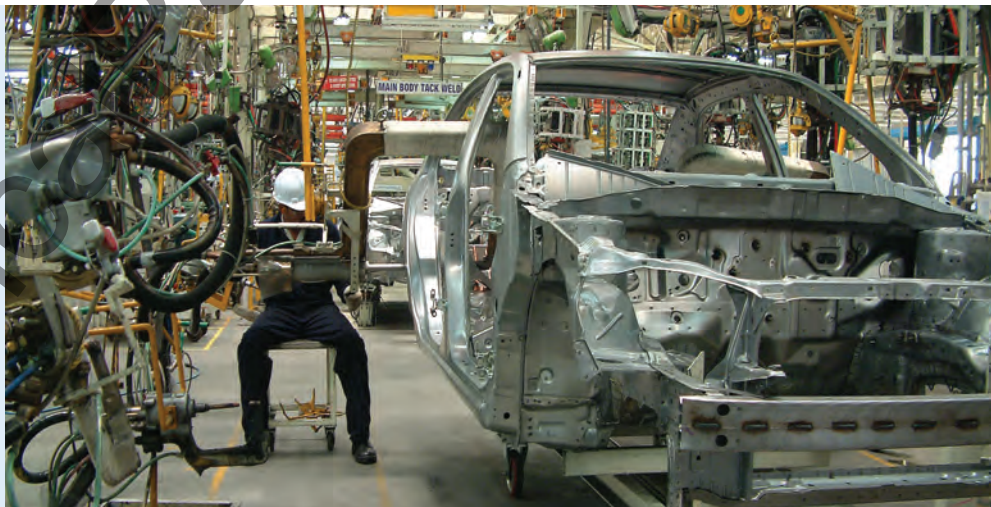
the power to protect

Ground faults cause havoc on plant production processes, shutting down power and equipment and critical loads.

Ground faults disrupt the flow of products through manufacturing processes and cause data loss in computer centers leading to hours or even days of lost productivity.

Ground faults pose potential health and safety risks to personnel, creating hazards such as equipment malfunctions, fire and electric shock.

High Resistance-Grounding (HRG) is becoming more prevalent in industrial and commercial electrical power systems because it eliminates un-scheduled downtime due to ground faults, and improves personnel safety by preventing ground faults from escalating into arc-flash incidents. Resistance Grounding is highly recommended for generators, to protect them from damage due to excessive ground fault currents.



DIN rail mounted high resistance grounding system

Multi-Feeder ground alarm indication with double fault protection

Integral resistance pulsing and MODBUS communication for remote monitoring

Inrush detection restraint prevents nuisance tripping on high inrush loads

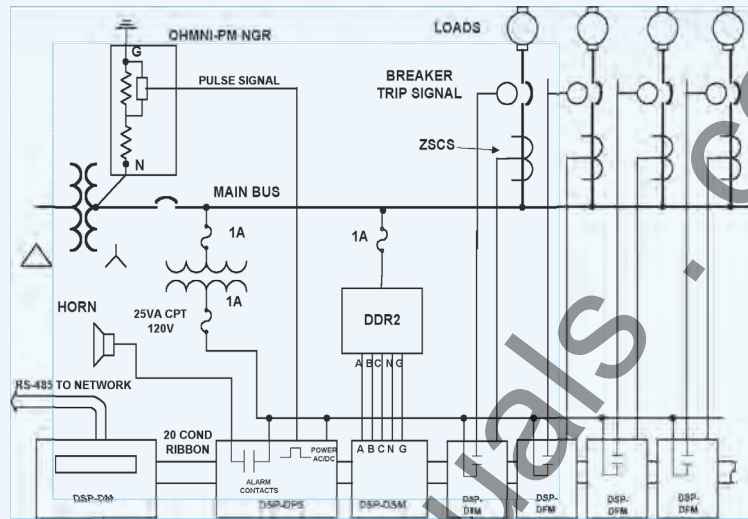


With its separate easy to read digital display and modular design, the DSP OHMNI can be expanded to 50 feeders for large installations, each with a dedicated feeder module and sensitive zero-sequence current sensor.

MODBUS

communications allows the operator to remotely monitor which feeder has faulted and to monitor the leakage currents of all feeders for trending purposes.

Technical Specifications



Power Requirements	100-240V, 50/60Hz or DC, 25VA
Control voltage	250V AC/DC
Dielectric	Relay contacts to chassis 1500V rms. for 1 minute Control terminals to chassis 1500V rms. for 1 minute Alarm Level
Alarm Level Pickup	50% of system Ground Current IG
Trip Level Inhibit	25% of system Ground Current
Contact Ratings	DSP-DFM Trip Contacts – Form C SPDT 10 amperes, 240V AC resistive DSP-DPS Alarm Contacts – Form C SPDT 8 amperes, 240V AC resistive
Performance	DSP-DFM Pickup accuracy ±10% of system let-through current Trip Level accuracy ±10A DSP-DSM Alarm Level Accuracy ±10% of IG
Temperature Range	Operating temperature 0°C – 50°C
Standards	CSA File number LR65287 UL Listing E232710



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