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INNOVATION IN FREQUENCY CONVERTERS TO REDUCE DOWNTIME AND IMPROVE PRODUCTIVITY IN STEEL PLANT

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Steel plants are full of dust and gas and PCB has a tendency to fail if not protected properly. To avoid the downtime, it is recommended to use highest level of conformal coating to protect from dust and corrosive gases present in steel area.

Thermal management is a key criteria in steel plants. Innovation in technology has helped to segregate the power module heat from the control components, ensuring the control components don't get heated up and the components life increases.

Additionally with an advanced thermal technology can also be used to throw out the components out of the electrical room, ensuring reduction in CAPEX and APEX cost of HVAC and reduction of CO2 footprint.

New simulation program has been invented where the product can be selected and tested in a simulation mode even before the product is produced. This can be used to simulate various situations (load cycle, overloads, temperature variant, low speed performance etc). complete plant or process can be simulated even before the model is ordered.

Intelligent frequency converters features enable the prediction and detection of early failure in stator winding, overloading, vibration and bearing of motors without any sensors or PLC.

This, when combined with remote monitoring features, can increase efficiency and reduce periodic health checkup of the motors.

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