



## Summary



<b>Industry:</b>	Metals
<b>Application:</b>	Energy Efficient Motors & Inverters
<b>Actual Saving:</b>	£9,000
<b>Payback Period:</b>	Undisclosed



## Efficient Motor for Steel Manufacturer

Reduced downtime and improved efficiency

### ISSUE

A large steel manufacturer had an ongoing issue with frequent down time motor failures on a pump application on blast furnaces. The system was supplying water to dust suppression nozzles, when there was no demand for dust suppression a water control valve was closed via a relief valve, a closed loop recirculation was then created. On investigation ERIKS determined that the motor failures were as a result of the re-circulation of the water. This resulted in the premature motor failure due to overheating and resulting in premature catastrophic failures.

### SOLUTION

Following a site visit and detailed study of the existing "dust suppression system", ERIKS determined that the issue was not with the pumps but the control of the pumps. ERIKS subsequently recommended installation of a closed loop control system. The system consisting of a new panel fitted with an inverter, new IE3 energy efficient motor and a pressure transducer on the pump discharge. ERIKS overhauled the pumps, fitted the panel, motors, pressure transducer and commissioned the system.

### OTHER BENEFITS

- Energy Efficiency
- Increased Uptime

### FURTHER COMMENTS...

The solution is totally compatible with the the customer's Energy Efficiency Strategy.

### MORE INFORMATION

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know-how makes the difference

