

## **'Intelligent' Motor Control Centres**

The design of conventional Form 4 motor control centres has changed little over the last 30 years or so. The advent of the 'Intelligent' motor control centre has led to a change of approach regarding the level of equipment and methods of controlling motor control and associated instrumentation. On this installation the components within the MCC assembly are linked by a data-bus cable to the process control system located in the main control room. Each component has a discrete 'address' and is monitored by the process control system. Information relating to the status and control of the components is displayed on the HMI (human machine interface) unit located in the control room area. One of the main advantages this system had over convention methods was to reduce significantly the number of multi-core cables employed on the project. The installation in question benefited for shorter installation times and cost effective installation methods



- Reduction of components within the MCC Compartment and on door
- Smaller components, less steelwork, fewer columns, led to lower costs.
- Communication with process control system via Profibus link. Multicore cabling vastly reduced / eliminated
- Linked with Building Management System to record energy consumption and sound alarms, breaker tripped, over / under-load etc.

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