

Intelligent Motor Control



Our Intelligent Motor Control, as part of a truly Integrated Architecture, enables you to improve communications, control and monitoring, giving you easier access to essential plant and production data.

- *Tailored solutions to meet your specific requirements*
- *Advanced networking and visualisation technologies*
- *Flexible, open network for device connection*
- *Reduced wiring*
- *Excellent diagnostics*

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Integrating Intelligence

Motor control is an essential element of almost every industrial automation application. Basic motor control is fine for basic applications. But as devices become more complex, as applications become more demanding, and as the need to reduce costs and improve plant efficiency grows, so there's a need for more advanced motor control.

Rockwell Automation have led the way with Intelligent Motor Control. This combines leading edge motor control and protection devices with advanced networking and visualisation technologies. Now that plant floor

devices such as motor starters, circuit breakers and relays can send and receive information, motor control applications have made huge advances.

However, we're not content to stop there. So now we've taken Intelligent Motor Control one step further, with Integrated Architecture.

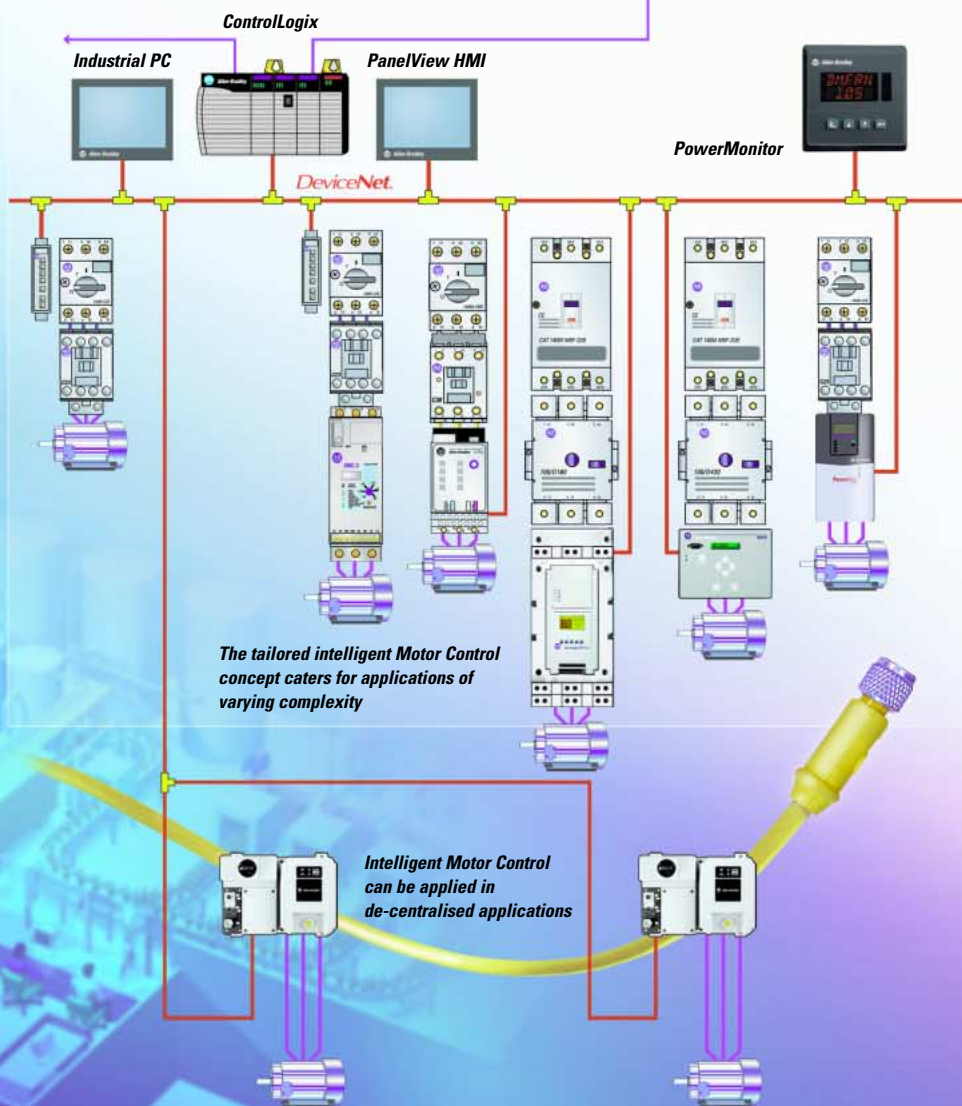
Integrated Architecture – of which Rockwell Automation are the pioneers – ensures all our products fit seamlessly into a truly integrated system. All the Intelligent Motor Control Products shown here are designed to integrate fully with all other Rockwell Automation components and systems.

The immediate results are improved communications, control and monitoring, easier access to plant and production data – for better management decision making – and faster response to customer and market demands.

And in the long term, Intelligent Motor Control as part of an Integrated Architecture system can greatly increase efficiency, productivity and profitability.

Alarm messaging to mobile phone

Remote control and monitoring of the Control Panel, using RSView32 HMI SCADA software



Tailored Solutions For Improved Control

DeviceNet – The Key to Intelligent Motor Control

Our IMC solutions support network communications via the DeviceNet network. This flexible, open network provides connections between simple industrial and higher level devices. DeviceNet is the industry standard device layer network, based on Controller Area Network (CAN) technology. With reduced wiring, easy upgrades and Auto Device Replacement (no need for lengthy setting-up) DeviceNet is an effective solution offering excellent diagnostics.

140M Circuit Breakers

Available in three different varieties, for motor, starter and transformer protection. Featuring a choice of magnetic or thermal trip mechanisms, if combined these allow the circuit breaker to differentiate intelligently between trips caused by overloads and those caused by short circuits. This allows faults across the network to be identified and rectified more quickly.



SMC Delta

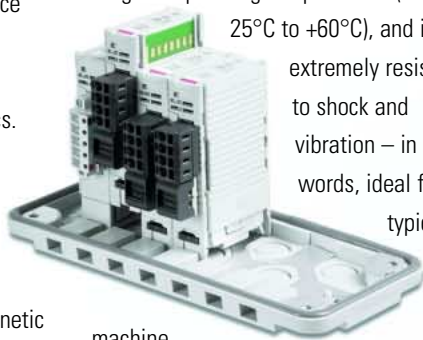
The first ever Integrated alternative to a Star-Delta Starter, SMC Delta replaces power wiring, overload, timers, and the main star and delta contactors in one package. The result is unparalleled motor



control in an intelligent, easy to set up, highly functional, extremely compact device – less than one third the size of a traditional star-delta configuration.

(Modular) DeviceNet Starter Auxiliary

This range of modular I/O devices has been specifically designed for tough industrial applications. It has a wide range of operating temperatures (from -25°C to +60°C), and is extremely resistant to shock and vibration – in other words, ideal for typical



machine installation requirements. Available for mounting in DIN Rail format in 4I/2O fixed configuration or expandable format where more demanding applications exist. Expandable versions available in gland-mounted format.

193-E3 Electronic Overload Relay

Featuring its own built-in DeviceNet and diagnostic capabilities, this fully programmable electronic overload relay constantly monitors motor operation, making it possible to take action when problems are noticed, but before failure occurs. This makes it particularly useful for process critical motors. It protects against thermal overload, phase loss, stall, jam, underload and current imbalance. Provides current monitoring across the network.



SMC-Flex

A softstarter with features never before available in a device of this nature, and ideal for almost any application. SMC-Flex includes electronic overload, integral bypass, modular communication and motor starting capabilities (for star-delta and standard squirrel cage induction motors) advanced protection, and diagnostics – all as standard. And all in a compact, maintainable, modular and cost-effective package.



825-P

The next generation of modular protection, the Bulletin 825-P modular protection system has a unique feature for installers. Its modularity allows an installer to configure a device's functional capabilities to match the application requirements. The system can also be easily expanded as the application requirements grow. With the option for full metering for line voltage, power, and expanded RTD monitoring, and with pluggable options and accessories, this is an exceptionally functional device that's exceptionally simple to install.



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PowerFlex

Where a variable speed solution is required, Powerflex is the answer – offering the industry's widest choice of kw rating, functionality and features. From small volts per hertz inverters to massive, integrated systems, the PowerFlex family of variable speed control products gives you all the flexibility, reliability and precise motor control you need.



ArmorStart

If your requirement incorporates decentralised motor control then ArmorStart is the answer for fixed and variable speed motor control. Simply mounted on the machine, this Distributed Motor Controller is an integrated, pre-engineered, combination starter for full voltage and reversing applications. Its modular plug and play design means installation is simple, and its robust IP 67 design means that it needs no special treatment once installed. In fact it is even suitable for water washdown environments.



Choose the intelligent solution...

Our range of Intelligent Motor Control products means we can meet the needs of any application, from the smallest and simplest to the largest and most complex. By tailoring our solutions to your specific needs, and integrating them with your whole system, we can help you to realise the real cost savings and productivity advantages which Intelligent Motor Control and Integrated Architecture make possible.

Web: www.ab.com/imc

