

INTEGRATED MOTORS

Flow Products

Reliable and Compact Design

This 3-part series of papers is presented as an overview to integrated motors.

The goal of the series is to highlight the advantages of integrated motors over multi component motor designs.

- Part 1 – Introduction to an Integrated Motor.
- Part 2 – Discussion of the different types of Integrated Motors.
- Part 3 – Applications for Integrated Motors.

Part 1 - Introduction to Integrated Motors.

When designing a system with motion control, reliability and product size are key factors to consider. Having the drive, controller and logic built into the motor housing offers the advantages control engineers are looking for. Additionally, integrated motors are available as Steppers, Closed loop steppers and Servos, further expanding their applications in industry.

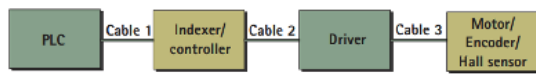
What is inside ?



The exploded view of the integrated motor shows all the components that are available in the package.

The following table and video further illustrates the advantages on the integrated motor vs multi-component motor.

The Multi Component System



Major components to install:

- PLC
- Indexer/controller
- Driver
- Motor with Encoder
- Cabling

The Integrated Motor System.

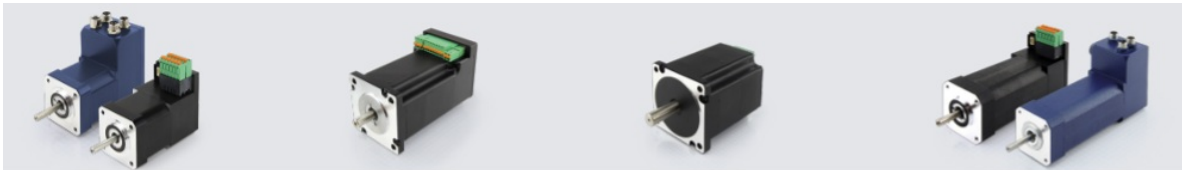


With Integrated Motors there is one, compact motor package.

[Are you busy building machines? - YouTube](#)

Some of the benefits and features of the Integrated Motors are:

- Reduction in stand-alone components.
- Smaller control panel.
- Improved reliability.
- Fewer connections, less wiring, standard M12 connectors.
- No radiated noise or special shielding.
- Discrete I/O or Fieldbus for communication.
- Reduced installation cost and commissioning.



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