

APPLICATION NOTE

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Cm3 Servo Motor Connector

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The Challenge

Typical interconnects for servo motors require separate circular connectors for power and signal cables. Conventional connectors such as M23, Trident, MIL-C-5015 and CA-Bayonets are bulky, heavy and require a large number of components to assemble. Engineers are constantly searching for new and robust connector alternatives.



Features

- Cm3 is 50% smaller in size and weight
- Over 50% fewer components to assemble
- Single mounting hole (fits M23, 5015 foot prints)
- Sealing options IP65 or IP67
- Total circuits: 4 power / 18 Signals
- Maximum current / contact: 18A power* / 3A signal
- Accommodates a wide variety of servo motor cables with diameters up to 11mm max
- Housing can accommodate custom markings

* 80 degree C motor surface temp and 40 degree C ambient temp

The ITT Solution ...

The Cm3 connector features a simplified connector design that integrates both power and signal cables into a single zinc die cast housing. This innovative design facilitates installation with fewer components, occupies less space and is just one-third the height of traditional circular connectors used on servo motors. The Cm3 is the first of several designs being release to support a wide variety of servo motor applications.

Applications

- Servo Motors
- Textile Machines
- Robotics
- CNC Machines
- Conveyors
- Packaging
- Linear Motors
- Factory Automation

Benefit to the Customer

- Simplifies interconnect construction and design for both large and small motors
- Low profile design for space saving applications
- Cost reduction solution
- Housing completely sealed and shielded
- Excellent vibration resistance
- 2 sealed entries for power and signal cable
- Optimizes productivity/installation during assembly
- Improves the aesthetic look of customers product
- Replaces two conventional circular connectors

For application assistance, please contact:
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