

Press Release

Multi-axis, 460kbit, high-speed RS485 interface for MAC integrated AC-servo motor

JVL Industri Elektronik A/S is a well-known Danish manufacturer of servo- and step motor controllers. A range of integrated AC servo motors makes JVL a world leader within motion control. The numerous features of these motors include a modular concept that makes it extremely easy to adapt the motors to a very wide range of applications.

JVL now announces another new expansion module (MACOO-FS1) for these integrated MAC motors. It can be used in multi-axis, high-speed applications with up to 255 units on the same RS485 bus with repeaters. 4 inputs and 2 outputs, position, error status, etc., are scanned locally and can be read very quickly from a PC or PLC. For example, 16 motors can be scanned in just 12ms. New positional data can be sent to 255 motors in just 133 ms. This is a very important feature in machines where multiple axes must be adjusted quickly and simultaneously. All motor parameters can also be read/written, and a group command can be used to write to several motors simultaneously. All 24V I/O and RS 485 are galvanically isolated to ensure error-free function. 2 of the 4 inputs can be set up as a limit switch. Dual supply ensures position and communication at emergency stop. Up to 921.6 Kbit communication and other connector types can be delivered on request.

The new extended features in the FS1 Expansion Module are fully supported in the new improved MACComm OCX (ActiveX component). This component makes it easy to develop Windows software such as Visual basic applications, Labviews, etc., that can control up to 255 MAC motors.

The modular construction of JVL's integrated MAC motors makes them particularly well suited for a large number of fieldbus applications. The series also includes Profibus, CANopen (DSP402), DeviceNet, USB and Bluetooth models. New modules are under development, including for example models for Ethernet and Zigbee wireless communication.

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