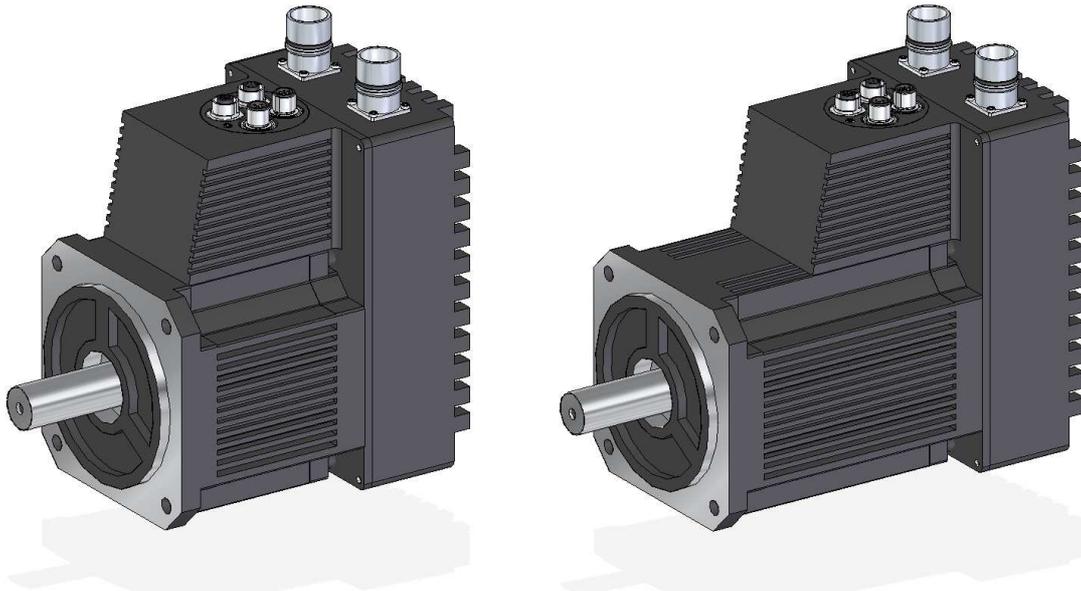


Worlds Most Compact Integrated Servo Motor in size 1500 and 3000 W



JVL presents two new AC Servo Motors with built-in controllers and direct AC mains supply with same capacity and length as traditional servo motors

JVL, the European leader in the development of integrated servo and stepper motor technology, has now again developed new and unique products in the field of integrated motor control.

JVL's newest additions to their portfolio are two complete, high-capacity MAC motor[®]s with ratings of 1500 W and 3000 W. The first prototype will be revealed at the German SPS/IPC/Drives 2010 exhibition this November and later in 2011 the official launch takes place.

MAC motor[®]s are complete servo systems including a high-dynamic AC servo motor, hall-sensors, encoder, power supply, driver and positioning controller, as well as facilities for incorporating various control modules such as Bluetooth, WLAN, ZigBee, EtherCAT, EtherNet/IP, CANopen, DeviceNet, Profibus, Nano PLC, RS232/RS485/USB, Process Control, etc.

New Compact Motors

The MAC motors set completely new standards for the performance and size of servo controls. With a length of only 182 mm for a 1500 W motor with a torque of 4.78/14.3 Nm at 3000 rpm – and 232 mm for a 3000 W motor with a torque of 9.55/28.6 Nm at 3000 rpm, these MAC motors match the sizes of traditional servo motors without built-in controllers with flange 130x130 mm. This has only been possible through the use of extremely compact motors and the development of electronics and mechanics that utilise the latest technologies and manufacturing methods.





So what about vibrations and temperature? As with the other integrated servo motors in the range (50...3000 W), both the motor and all electronic components have been specifically selected to withstand the rigorous demands required by industrial use.

Power Supply and Energy Savings

Powering these motors is easy since it only requires connection of the main voltage of 3 x 400 VAC through the M22 connectors. Control voltage for the encoder and microprocessor circuitry is 24 VDC: In an emergency-stop situation, where an approved relay has cut-off the main power, encoder position and other values are maintained by this control voltage. In some applications, however, this is not needed and in those cases an optional internal 24 VDC supply can be used, requiring only an AC main connection. Furthermore highly effective switching technology is used to ensure low heat generation resulting in appreciable energy savings.

Other Advantages

One of the big advantages of using the integrated MAC motor[®]s is that you don't need to install a separate servo driver or controller in a control cabinet. This gives you many subsequent advantages: Space savings in your control cabinet, saving of expensive motor and encoder cables, saving time (and money) for cabling, noise is minimized due to internal cabling and also installation errors between driver and motor are eliminated (price = ?). In addition, service is much easier, since the motor and controller can be replaced as a single integrated unit. Hence downtime is minimized and production is maximized.

For further information, please contact:

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