



ServoStep®

Next generation G3 - All-in-one integrated stepper motors with closed-loop, ePLC, multiturn encoder and Ethernet.

NEW!



sps
smart production solutions

33rd international exhibition
for industrial automation



And more to come soon....

JVL A/S is proud to announce a complete new generation of NEMA17 and 23 integrated steppers - **Generation G3 - SMC67 Controller**

This new generation is based on a new control core but with the knowledge from previous designs and customer feedback for many years, and offers a wide pallet of options which makes this product fit into almost any application.

Key features:

- Lower cost than previous gen. II
- Complete new control core
- Silent and very smooth operation
- Industrial Ethernets - 6 protocols
- Ethernet load class III
- Faster Ethernet cycle. Down to 500µs
- Closed-loop operation
- Absolute multiturn encoder wo/Batt.
- Safe Torque Off (STO) input
- High resolution 409600 cnt/rev.
- Double shaft
- Speed 0-3000 in 0.01RPM steps
- Electromechanical brake (external)
- Wide supply range 8-72VDC
- Protection class up to IP65
- Connectors: M12 industrial
- -20 to +70°C Operation temperature
- Higher duty cycle
- Higher efficiency
- Faster startup (maximum 0.5*/2s)
- 64bit position registers
- Prepared for integrated web server
- Prepared for Functional Safety:
 - STO, SS1, SS2, SOS, SLS, SLP, SDI,
 - SSM, SBC, PROFIsafe (Q1-2027).
 - CIP-safety for EthernetIP and SERCOS
 - FSoE for EtherCAT
- Prepared for PROFIdrive (2025 Q2)
- Prepared for Power over Ethernet (PoE)
- Faster Mactalk protocol
- ePLC Prepared multitasking+Int. (2025)
- Prepared for Profibus, CC-link etc.
- Room for large CAM table.



JVL – your global partner



JVL A/S is a Danish company with subsidiaries in Germany, UK, USA and Turkey. And we have distributors and partner companies in more than 30 countries world-wide – sales and support are always nearby.

Accessories and options:



Integrated spindle (MIL23x)

Integrated Linear Stepper Motor. This motor can reduce cost, save space and reduce failure rate due to its simple construction. Captive, Non-captive and external linear with lead screw or rolled ball screw is available.



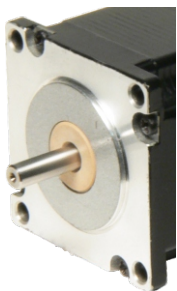
Power supplies and cables

Power supplies and cables for all types of set-up can be delivered as required. In this way installation is fast and easy for our customers. Please see our complete product line at www.jvl.dk.



Electric brake

Optionally an electric brake, type MAB23x for all motors with NEMA 23. It is useful for holding the motor shaft fixed at power off or when the motor is used in vertical applications.



IP 65 protection

IP65 versions can also be delivered. They are resistant to rough chemicals and ideal for use in food processing, pharmaceutical, medico and chemical industries. Come with a maintenance free teflon shaft sealing, leak-proof cable entry and stainless steel flange and shaft.

JVL A/S is a Danish manufacturer founded in 1986 and is the inventor of the integrated servo motor concept. Our focus is on developing state-of-the-art products for motion control. We are proud to be a certified supplier to the aerospace and automotive industries. We offer two all-in-one ranges: Servo motors from 50 to 4500 W and ServoStep™ motors from 0.18 to 25 Nm. All motors are designed for IIot and are Industry 4.0 ready.

Software integration on all major platforms



JVL A/S
Bregnerødvej 127
DK-3460 Birkerød
Denmark
Tel. +45 4582 4440
sales@jvl.dk
www.jvl.dk

