AUTOMATION & MOTION CONTROL DIVISION · SURETON GROUP

ICM-LM Series Servo Motor

Model series: ICM-LM · mid/low inertia · 200+ winding variants

Low cogging, IP66, up to 10 000 rpm.

The ICM-LM is a mid/low-inertia permanent-magnet synchronous motor for axes that need high dynamics in a compact envelope: high torque density, low cogging torque and a generous overload margin. More than 200 standard winding designs mean the motor can be matched to the drive and the duty cycle rather than the other way round, and with a shaft seal the enclosure reaches IP66 — fully dust-tight and protected against strong water jets. Encoder options run from incremental through single- and multi-turn absolute, up to 23-bit single-turn resolution.



KEY FEATURES

- High torque density, low cogging torque and high overload capability
- Compact frame for installation-space-critical machines
- Maximum speed up to 10 000 rpm
- 200+ standard winding designs to match drive and duty cycle
- IP66 protection with shaft seal — dust-tight and jet-water resistant
- Incremental, single-turn and multi-turn absolute encoders · up to 23-bit single-turn
- Optional single-connector design: power and feedback in one cable
- Full-digital feedback data · CE certified

TECHNICAL DATA

Motor type	**AC permanent-magnet synchronous, mid/low inertia**
Max. speed	**10 000 rpm**
Winding variants	**200+ standard designs**
Enclosure	**IP66 with shaft seal**
Encoder	**Incremental / single-turn absolute / multi-turn absolute**
Encoder resolution	**up to 23-bit single-turn**
Connection	**Separate power and feedback, or single-connector option**
Certification	**CE**

TYPICAL APPLICATIONS

High-dynamics machine tools

Electronics and semiconductor handling

Packaging machinery

Robotics and gantries

Sizing support included. Send us your cycle diagram, load table or CAD files and we will return an axis-by-axis selection proposal, bill of materials and commissioning plan — every enquiry is answered by an engineer within one business day.

COMPLIANCE AND DOCUMENTATION SUPPLIED

CE — EMC directive | CE — Low Voltage directive | UL listed assemblies | RoHS declaration | Declaration of conformity | 2D / 3D drawings | EPLAN macro | User manual | Firmware & parameter set

> The full compliance pack and language-specific manuals are issued with the shipment and can be supplied before your design freeze on request. Documentation is provided for the exporting entity, **Sureton Automation**.

Sureton Automation

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Sureton Automation, a division of Sureton Group. Technology and manufacturing partner: ICON Industrial (Beijing R&D, Jiaxing manufacturing, China). Sister division: Sureton Precision Manufacturing (https://sureton.cn). Technical data is indicative and continuously refined — please confirm the current revision before design freeze.