AUTOMATION & MOTION CONTROL DIVISION · SURETON GROUP

# ICM-I Series Servo Motor

Model series: ICM-I21 · ICM-I30

## High torque density up to 57.5 kW.

The ICM-I series covers medium to high power servo applications in two clearly graded families. An 8-pole structure with optimised winding resistance and inductance keeps the electrical time constant low and the dynamic response fast. Peak torque reaches roughly twice the rated value, and holding brakes are available for vertical or safety-critical axes.



### KEY FEATURES

- Broad power coverage: ICM-I21 from 13.2 to 31.1 kW, ICM-I30 from 33.9 to 57.5 kW
- High overload capability with peak torque ≈ 2 × rated torque (70→140 Nm, 180→360 Nm, 305→610 Nm)
- High speed output up to 2400 rpm (rated speed 1800 rpm)
- High torque density: 215 mm and 300 mm flanges for large power in a compact frame
- 380 VAC standard industrial supply, stable torque constant KT 2.7–2.9 Nm/A
- 8-pole design with optimised windings for fast dynamic response
- Optional holding brake, 95–370 Nm static torque, 24 VDC

### TYPICAL APPLICATIONS

Heavy-duty injection and forming machines

Metal processing

Large gantry and press systems

Energy and utility drives

### TECHNICAL DATA

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|---|---|
| Series | ICM-I21: 13.2–31.1 kW · ICM-I30: 33.9–57.5 kW |
| Rated torque | 70–165 Nm (I21) · 180–305 Nm (I30) |
| Peak torque | ≈ 2 × rated |
| Rated speed | 1800 rpm |
| Max. speed | 2400 rpm (I21) · 2300 rpm (I30) |
| Flange size | 215 mm · 300 mm |
| Voltage | 380 VAC |
| Torque constant KT | 2.7 – 2.9 Nm/A @ 20 °C |
| Voltage constant | 175 – 187 V / 1krpm |
| Pole count | 8 |
| Brake option | Holding brake, 95–370 Nm static, 24 VDC |

**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.