

servIM Integrated Servo Motor

The servIM integrated servo motor is a cost effective and flexible solution, ideal for applications with limited control cabinet space and a decentral machine architecture. The servIM, with its high power density and compact size, enables space-saving machine designs and ultimately cabinet-less machines.



Integrated components reduce cost, space and machine complexity

In a decentral machine architecture, wiring and assembly time can be reduced thus enabling significant cost savings for machine builders. Integrated motors that combine the drive, control and power electronics also free up space and reduce the heat generated inside the cabinet.

The integrated servo motor comes with I/Os for easy wiring of distributed signals as well as CANopen and RS232 communication ports.

Supporting multiple types of motor feedback

servIM supports common motor feedback types incl. Incremental, SSI, and BiSS. With these feedbacks and STO functional safety the servIM meets the full range of resolution and safe operation requirements of diverse applications.

User-friendly commissioning

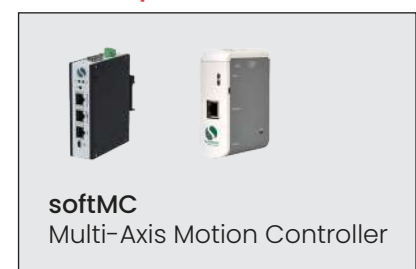
The commissioning software offers comprehensive parameterization options and a step-by-step guidance through the motor setup, application configuration, and tuning process.



Key benefits

- Frame size: 60 - 80 mm
- 200 to 800 W rated output power
- 48 ~ 60 VDC bus voltage
- Fieldbus: CANopen, RS232
- Feedback: Incremental encoder AqB, Index, Halls, RS422
- Optional holding brake
- 4 digital inputs, 2 digital outputs
- Front and back connector mounting
- IP54 protection class (IP65 optional)
- STO functional safety (SIL 3/PL e)
- Simple commissioning with comprehensive parameterization options
- CE and cUL certifications

Related products



Rating and dimensions

Model	Communication	Flange Size (mm)	Length (mm)	Voltage (VDC)	Power (W)	Rated Current (Arms)	Rated Torque (Nm)	Rated Speed (rpm)	Max. Speed (rpm)
ISM 60S	CANopen	60	104.90 (121.90)	24 - 60	200	6.5	0.64	3,000	5,400
ISM 60M	CANopen	60	123.40 (141.9)	24 - 60	400	12.0	1.27	3,000	5,000
ISM 80S	CANopen	80	116.40 (141.40)	24 - 60	480	14.6	1.53	3,000	5,100
ISM 80M	CANopen	80	133.40 (163.40)	24 - 60	800	22.6	2.55	3,000	4,800

Communication:

CANopen
RS232

Motor feedback:

Incremental
encoderAqB Index
Halls RS422

Digital I/Os:

4 x Input
2 x Output

Ordering information

	IS	M	-	60S	2	30	3	5	C	1	0	00
Integrated Servo Motor												
Type												
Servo Motor												
Frame Size and Length												
60S	Flange 60 mm Short (200 W)											
60M	Flange 60 mm Medium (400 W)											
80S	Flange 80 mm Short (480 W)											
80M	Flange 80 mm Medium (800 W)											
DC Bus Voltage												
2	24 VDC											
4	48 VDC											
Rated Speed												
10	1000											
30	3000											
Shaft												
3	Keyway											
4	Full round											
Connector and Protection Class												
1	Front mounting IP 54											
5	Back mounting IP 54											
Communication												
C	CANopen											
Feedback												
1	Incremental encoder AB quadrature, index, Halls, RS422											
	Other Feedbacks upon request											
Brake												
0	No brake											
1	With brake											
Option												
00												



**Estimated
market release:**
2nd quarter 2022