



KOLLMORGEN

Digital Servoamplifier SERVOSTAR® 200



Helping you build a better machine, **faster.**

SERVOSTAR® 200

Danaher Motion's Kollmorgen SERVOSTAR® 200 brushless servo drives push high performance servo technology into lower power applications than was previously possible without having to compromise on reliability or package size. Couple a SERVOSTAR® 200 drive with a Kollmorgen AKM servo motor for a complete servo control solution designed to excel in applications such as semiconductor fabrication, electronic assembly, packaging, medical, and woodworking equipment.

Kollmorgen SERVOSTAR® 200 servo drives are the first all digital industrial drives with a velocity loop bandwidth up to 800 Hz offering unmatched system throughput and simplified tuning. High resolution (24 bit) feedback and high performance 3–5 kHz current loop bandwidth provide smooth motion and rapid start and stop action to optimize machine performance. Smart feedback and industry leading high

bandwidth deliver fast and accurate commissioning by eliminating the need for servo loop tuning in most applications.

Separate "Keep Alive" power input allows rapid recovery from emergency stop conditions.

Optically isolated inputs/outputs, positive locking connectors and full fault protection promise long machine life and immunity to accidental damage. A single motor power/feedback cable simplifies connectivity. All connectors and LED status indicators are easily accessible from the front of the drive.

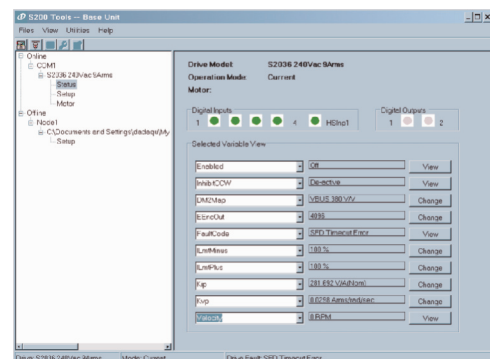


Highlights

- DC or AC input voltage:
DC type: 20 V ... 90 V
AC type: 110 V_{-10%} ... 240 V_{+10%}, 50/60 Hz
- Highest performance all digital servo in the industry
- Fully configurable via RS232 interface
- Operation from a PC via setup software
- Easy set up and tuning with Smart Feedback Device
- Optimized performance with AKM motors
- Rugged optically isolated I/O
- UL508C recognition, CE (EN50178, EN61800-3)
- Very compact footprint
- Full fault protection
- Torque and Velocity control standard
- Optional CANopen or DeviceNet Position Control

WINDOWS™ Graphical User Interface (GUI)

The new Graphical User Interface is designed to expedite the set up process. Although most applications will work with the default parameter that are set automatically during power up, it may be necessary to adjust some of the user parameters to fully utilize all of the drive functionality and to optimize servo loop tuning. If you are familiar with Windows Explorer and tree structures this GUI is designed to make your life simple now that is "Easy to Use".



Increased Machine Throughput and Longer Life

Servo system performance is synonymous with machine throughput. The SERVOSTAR® 200 family takes servo performance to new heights.

- Industry-leading current loop bandwidth up to 5 KHz and velocity loop bandwidth up to 800 Hz means machine throughput can be increased by as much as 2 to 3 times.
- Robust design including full fault protection, locking connectors and optical isolation promise greater machine “up-time”.
- Smooth motion, a benefit of sinusoidal current control and high resolution (24 bit) feedback minimizes harsh torque disturbances that can cut short the life of mechanical components.
- Both the AC and the DC input drives are equipped with separate control power input to speed recovery from “E-Stop” conditions.

Reduced Engineering and Support Time

Simplified tuning, friendly Graphical User Interface and shared components with Stepper products.

- Windows-based Graphical User Interface models the tree format found in Explorer so learning is quick and easy.
- Easy to debug with full fault diagnostics reduce engineering support time.
- Shares option cards, electrical I/O, and GUI components with the P7000 stepper drive family reducing the time required to learn new products.

Drive Names

DC Drive

Modular micro servodrive for operation with servomotors. This device is powered at 20 V DC to 90 V DC.

- S20330-VTS: 3 A cont/9 A peak/base Velocity/Torque drive/support Halls or SFD
- S20330-CNS: 3 A cont/9 A peak/CANopen/Indexing drive/support Comcoder or SFD
- S20330-DNS*: 3 A cont/9 A peak/DeviceNet/Torque drive/support Comcoder or SFD
- S20630-VTS: 6 A cont/18 A peak/base Velocity/Torque drive/support Halls or SFD
- S20630-CNS: 6 A cont/18 A peak/CANopen/Indexing drive/support Comcoder or SFD
- S20630-DNS: 6 A cont/18 A peak/DeviceNet/Torque drive/support Comcoder or SFD

AC Drive

Self contained micro servo drive for operation with servomotors. This device is powered at 120 or 240 V AC.

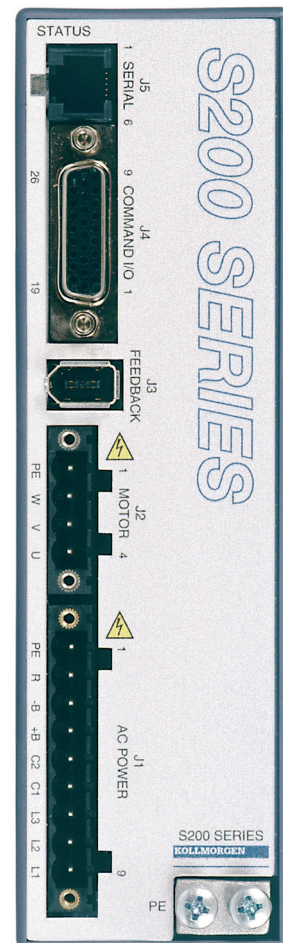
- S20260-VTS: 1.5 A cont/4.5 A peak/base Velocity/Torque drive/support Halls or SFD
- S20260-CNS: 1.5 A cont/4.5 A peak/CANopen/Indexing drive/support Comcoder or SFD
- S20260-DNS*: 1.5 A cont/4.5 A peak/DeviceNet/Torque drive/support Comcoder or SFD
- S20360-VTS: 3 A cont/9 A peak/base Velocity/Torque drive/support Halls or SFD
- S20360-CNS: 3 A cont/9 A peak/CANopen/Indexing drive/support Comcoder or SFD
- S20360-DNS*: 3 A cont/9 A peak/DeviceNet/Torque drive/support Comcoder or SFD

Technical Data

Rated data	DIM	SERVOSTAR®			
		20330	20630	20260	20360
Rated supply voltage	V	20 ... 90 V DC		0 ... 264 V AC	
Control logic, supply voltage	V	10 ... 90 V DC		85 ... 265 V AC	
Rated output current (rms value, ± 3 %)	A	3	6	1.5	3
Peak output current (± 3 %)	A	9	18	4.5	9
Peak time	s	3	3	3	3
Current loop Bandwidth max.	kHz	5	5	3	3
Velocity loop Bandwidth max.	Hz	800			
Update rate	MHz	1.25			

Dimensions

	SERVOSTAR® 200		
	DC	DC & option	AC
Height	152.4 mm	152.4 mm	175 mm
Width	28.7 mm	48.3 mm	54.8 mm
Depth without connectors	101 mm	101 mm	132 mm
Depth with connectors	~130 mm	~130 mm	~180 mm

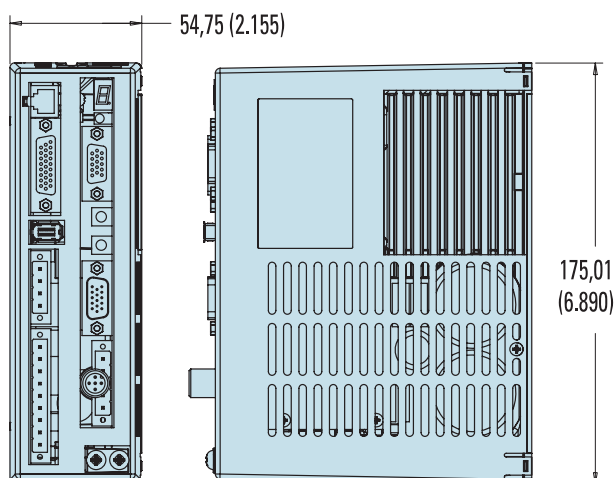
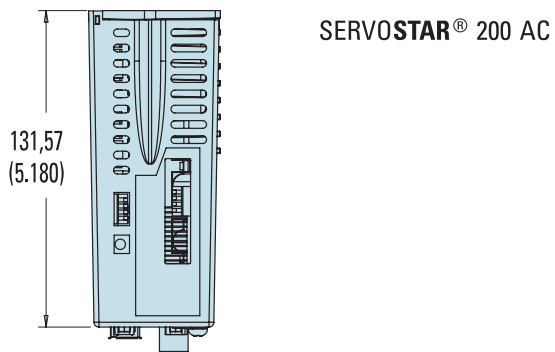
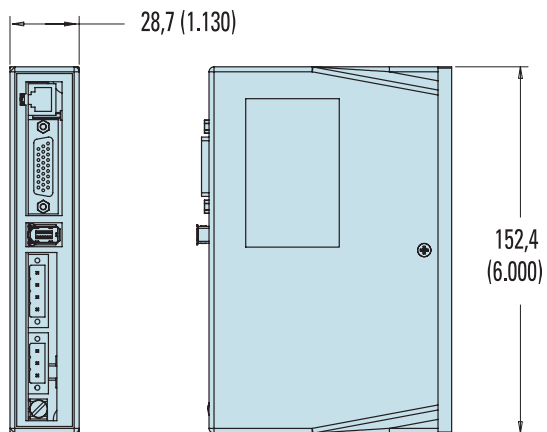
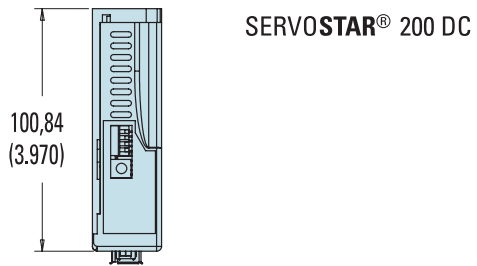


UL®
US
(pending)

CE

Dimensions

mm (inch)



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