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Data Sheet

August 15, 2026

DANAHER MOTION / KOLLMORGEN

Danaher Motion / Kollmorgen SERVOSTAR 610-AS Digital Servo Amplifier

Danaher Motion / Kollmorgen Motion Controllers. Current: 10 A RMS per phase, Voltage: 208–480 V AC, Voltage: 260–675 V.



MODEL

**Danaher Motion /
Kollmorgen 610-AS**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

610-AS

LISTING

[https://aumictechlabs.c
om/products/610-as-2/](https://aumictechlabs.com/products/610-as-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Danaher Motion / Kollmorgen SERVOSTAR 610-AS is a digital servo amplifier engineered for precision motion control in industrial automation systems. This SERVOSTAR 600 series device delivers 10 A RMS continuous output current and 7 kVA nominal power, operating from 208–480 V AC three-phase input (50/60 Hz) with an output DC-link voltage range of 260–675 V. The amplifier executes PI and PDFF digital control loop algorithms with patented DQ and torque angle control, achieving velocity loop bandwidths up to 400 Hz. Technical Specifications Continuous output current: 10 A RMS per phase Nominal power: 7 kVA Input voltage: 208–480 V AC, 50/60 Hz, three-phase Output DC-link voltage: 260–675 V Auxiliary supply: 24 V (18–36 V input), 100 mA plus output currents Peak current capacity: Specified via I_{peak} rating Maximum ambient temperature: 45 °C Enclosure rating: IP20 External fusing: 4 AT Addressing time: 4 ms minimum Maximum starting delay: 2 ms Digital output response time: 10 ms Motion profile memory: Up to 180 profiles CANopen bit rates: 125 kbit, 250 kbit, 500 kbit Key Features Dual control loop

architecture: PI and PDFF options Patented DQ and torque angle control algorithms High velocity loop bandwidth: Up to 400 Hz SSI interface with cyclically absolute serial position output Rugged resolved or high-accuracy sine encoder feedback options Incremental and SSI encoder simulation outputs Temperature-sensitive motor winding protection (PTC device) Setpoint ramps for controlled speed transitions Supply-side interference filtering Pluggable connectors for streamlined installation Typical Applications Industrial automation, servo motor control systems, multi-axis motion platforms, and OEM machinery requiring precise velocity and torque regulation. Compatibility & Integration Supports RS-232, CANopen, EtherCAT, SERCOS, EtherNet/IP, DeviceNet, PROFIBUS, and SynqNet via expansion cards. Expandable through SERCOS interface. Accommodates digital inputs/outputs, analog inputs, and master-slave operation via encoder interface.

Features & description

From manufacturer datasheet

Built-in brake chopper with internal resistor

Integrated CANopen, RS232, and pulse/direction IP20 cabinet mounting Optional DeviceNet, EtherCAT, PROFIBUS DP, and sercos 2 communications Technical Specifications Model: SERVOSTAR 610
Instrument Type: digital servo amplifier Rated Output Current: 10 Arms plus or minus 3% Peak Output Current: 20 Arms for 5 s plus or minus 3% Rated Installed Power: 7 kVA at 480 V Mains Voltage 60 Hz: 3 × 208 V minus 10% to 480 V plus 10% Mains Voltage 50 Hz: 3 × 230 V minus 10% to 480 V plus 10% Dc Link Voltage: 260 to 675 V Continuous Regen Internal: 200 W Continuous Regen External Max: 1.5 kW Peak Regen External Max: 21 kW Body Width: 70 mm Height Without Connectors: 275 mm Depth: 265 mm (273 mm with connectors) Mass Class: approximately 6.13 kg Auxiliary Supply: 24 VDC isolated (minus 0% plus 15%) Canopen Default: 500 kBaud Protection Rating: IP20 Overvoltage Category: III per EN 61800-5-1 Output Stage Frequency Class: 8 kHz class Operating Temperature Full Load: 0 to 45 C Operating Temperature Derated: 45 to 55 C Internal Brake Resistor 601 603 Class: 66 ohm (601/603); 33 ohm on higher ratings as listed Family Current Ratings: 601 1.5 A, 603 3 A, 606 6 A, 610 10 A, 614 14 A, 620 20 A Current Loop Update Family: 62.5 us (SERVOSTAR 600 hardware summaries)

610AS Characteristics / Specifications

PARAMETER	VALUE
Model	SERVOSTAR 610
Instrument Type	digital servo amplifier
Rated Output Current	10 Arms plus or minus 3%
Peak Output Current	20 Arms for 5 s plus or minus 3%
Rated Installed Power	7 kVA at 480 V
Mains Voltage 60 Hz	3 × 208 V minus 10% to 480 V plus 10%
Mains Voltage 50 Hz	3 × 230 V minus 10% to 480 V plus 10%
Dc Link Voltage	260 to 675 V
Continuous Regen Internal	200 W
Continuous Regen External Max	1.5 kW
Peak Regen External Max	21 kW
Body Width	70 mm
Height Without Connectors	275 mm
Depth	265 mm (273 mm with connectors)
Mass Class	approximately 6.13 kg
Auxiliary Supply	24 VDC isolated (minus 0% plus 15%)
Canopen Default	500 kBaud
Protection Rating	IP20
Overvoltage Category	III per EN 61800-5-1
Output Stage Frequency Class	8 kHz class
Operating Temperature Full Load	0 to 45 C
Operating Temperature Derated	45 to 55 C
Internal Brake Resistor 601 603 Class	66 ohm (601/603); 33 ohm on higher ratings as listed
Family Current Ratings	601 1.5 A, 603 3 A, 606 6 A, 610 10 A, 614 14 A, 620 20 A
Current Loop Update Family	62.5 us (SERVOSTAR 600 hardware summaries)

PARAMETER	VALUE
Operating temperature	Full Load: 0 to 45 C

610AS Specifications

PARAMETER	VALUE
Kollmorgen Danaher SERVOSTAR 610 Digital Servo Amplifier	Overview
Applications	Industrial synchronous, linear, and asynchronous servo axes on worldwide 208-480 VAC three-phase mains with multi-amplifier DC-bus sharing.
IP20 cabinet mounting	Optional DeviceNet, EtherCAT, PROFIBUS DP, and sercos 2 communications
Technical Specifications	Model: SERVOSTAR 610

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Full Load: 0 to 45 C
Operating Temperature	Full Load: 0 to 45 C
Operating Temperature Full Load	0 to 45 C
Operating Temperature Derated	45 to 55 C
Internal Brake Resistor 601 603 Class	66 ohm (601/603); 33 ohm on higher ratings as listed
Family Current Ratings	601 1.5 A, 603 3 A, 606 6 A, 610 10 A, 614 14 A, 620 20 A
Current Loop Update Family	62.5 us (SERVOSTAR 600 hardware summaries) Notes From Kollmorgen SERVOSTAR 600 rated-data tables (601-620 columns) and SERVOSTAR 600 safety/hardware manuals. 610 column values are the model-specific current, kVA, and regen rows.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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PARAMETER	VALUE
Model	SERVOSTAR 610
Instrument Type	digital servo amplifier
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Rated Installed Power	7 kVA at 480 V
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Family Current Ratings	601 1.5 A, 603 3 A, 606 6 A, 610 10 A, 614 14 A, 620 20 A
Current Loop Update Family	62.5 us (SERVOSTAR 600 hardware summaries)

Notes

From Kollmorgen SERVOSTAR 600 rated-data tables (601-620 columns) and SERVOSTAR 600 safety/hardware manuals. 610 column values are the model-specific current, kVA, and regen rows.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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NIST-traceable calibration · SAM registered ·
30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.