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Data Sheet

August 15, 2026

DANAHER MOTION / KOLLMORGEN

Danaher Motion / Kollmorgen PSR4/5-220 Power Supply Module

The Danaher Motion / Kollmorgen PSR4/5-220 is a power supply module designed for industrial motion control applications. It provides reliable and efficient power conversion to ensure optimal performance of servo drives and motion controllers. This module features solid construction and advanced protection circuitry for enhanced durability and system reliability.

**MODEL****Danaher Motion /
Kollmorgen
PSR4/5-220****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****PSR4/5-220****LISTING**[https://aumictechlabs.c
om/products/psr4-5-22
0-2/](https://aumictechlabs.com/products/psr4-5-220-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Danaher Motion / Kollmorgen PSR4/5-220 is a 6.0 kW regulated DC power supply module engineered for industrial servo drive systems. It converts single-phase or three-phase AC input to a 310 VDC main bus, supplying stable power to amplifier modules while managing regenerative energy through an integrated shunt regulator. The module features soft-start current limiting, independent control bus circuitry, and regeneration protection - making it suitable for motion control systems requiring reliable power conversion under demanding industrial conditions. Technical Specifications Output Power: 6.0 kW Main DC Bus Voltage: 310 VDC Main AC Input Voltage: 207-253 VAC (1/3-phase) or 160-253 VAC (3-phase) Control AC Input Voltage: 95-132

VAC (single-phase) Input Frequency: 47–63 Hz Continuous RMS Current (3-phase): 20.0 A per phase Continuous RMS Current (single-phase): 16.0 A per phase Peak RMS Current (2.0 sec, 3-phase): 40.0 A per phase Peak RMS Current (2.0 sec, single-phase): 32.0 A per phase Peak RMS Current (50 msec, 3-phase): 80.0 A per phase Peak RMS Current (50 msec, single-phase): 42.0 A per phase Control AC Line Current: 1.5 A (continuous) Main Bus Capacitor Charge Time: 25 msec (max) Shunt Regulator Peak Current: 41.8 A Power Dissipation (continuous): 200 W Power Dissipation (peak): 9.6 kW Soft-Start Surge Current: 80 A (max) Key Features Integrated soft-start circuit limits inrush current during main bus capacitor charging Internal shunt regulator suppresses voltage rise during motor deceleration and regenerative events Independent control logic bus powered by separate 95–132 VAC single-phase input Regeneration resistor requirement: max 20.7 Ω with minimum 38.8 W average rating Two functional voltage buses: unregulated logic bus and 310/140 VDC main servo bus Compatibility & Integration Designed for integration with Kollmorgen BDS4/BDS5 servo amplifier modules and B Series brushless motors in coordinated motion control systems.

PSR45220 Characteristics / Specifications

PARAMETER	VALUE
Model	PSR4/5-220
Instrument Type	Servo amplifier DC bus power supply
Family	Kollmorgen PSR4/5 with regeneration
Main Voltage	160 to 253 VAC line to line
Main Phase	1 to 3 phase
Main Frequency	47 to 63 Hz
Continuous Current	20.0 A rms three-phase; 16.0 A single-phase
Peak Two Second	40.0 A three-phase; 32.0 A single-phase
Peak Fifty Ms	80.0 A three-phase; 64.0 A single-phase
Control Voltage	90 to 132 VAC
Control Phase	single phase
Control Frequency	47 to 63 Hz
Internal Shunt	12 ohm
Internal Shunt Peak	30 A
Internal Shunt Continuous	40 W
Internal Shunt Peak Power	11.2 kW
Internal Heat	150 W
External Shunt Min	8.8 ohm
External Shunt Peak	44.3 A
External Shunt Continuous	400 W
External Shunt Peak Power	17.3 kW
Soft Start Surge	150 A maximum
Charge Time	25 ms maximum
Catalog Bus	310 VDC 20 A, 6 kW / 8 kVA (PMI 230 VAC class nameplate)
Width	76 mm (3.00 in)

PARAMETER	VALUE
Height	340 mm (13.49 in)
Depth	280 mm (11 in)
Operating Temperature	0 C to 45 C (20 A units, internal fan)
Storage Temperature	minus 20 C to 70 C
Humidity	10 to 90 percent non-condensing
Manufacturer	Kollmorgen / PMI / Danaher Motion
Literature	Kollmorgen BDS5 user manual PSR4/5-220 table and PMI PSR4/5-220 nameplate class

General Specifications & Supplementary Characteristics

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Storage temperature	minus 20 C to 70 C
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Literature	Kollmorgen BDS5 user manual PSR4/5-220 table and PMI PSR4/5-220 nameplate class Notes From Kollmorgen BDS5 user manual PSR4/5-220 electrical/mechanical/environmental tables. 310 VDC / 6 kW is the PMI catalog nameplate class for 230 VAC three-phase, notasubstitute for the 160-253 VAC L-L input table.

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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Notes

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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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<https://aumictechlabs.com>

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.