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Data Sheet

August 13, 2026

SANYO DENKI

Sanyo Denki PV2A030SGDNPA1 Servo Amplifier

Sanyo Denki PV2A030SGDNPA1 PV Super AC Servo Amplifier The Sanyo Denki PV2A030SGDNPA1 isaPV Super (SanMotion P) compact AC servo amplifier, 30 A class, 200 VAC input, with built-in dynamic brake. Aftermarket configuration decode lists DeviceNet hardware, GD motor type, and position-control shipment. PV Super amplifiers were offered in 15 A and 30 A capacities for Super BL motors from about 30 W to 1000 W. PV is the PU-based enhanced compact family; PY2 is the later compact successor. Position-control servo axes on DeviceNet; pairing with Sanyo Denki GD / P-series Super BL motors to about 1 kW; compact OEM machinery; replacement of PV Super 30 A DeviceNet amplifiers. The Sanyo Denki PV2A030SGDNPA1 isaPV Super (SanMotion P) compact AC servo amplifier, 30 A class, 200 VAC input, with built-in dynamic brake. Aftermarket configuration decode lists DeviceNet hardware, GD motor type, and position-control shipment. PV Super amplifiers were offered in 15 A and 30 A capacities for Super BL motors from about 30 W to 1000 W. PV is the PU-based enhanced compact family; PY2 is the later compact successor. Position-control servo axes on DeviceNet; pairing with Sanyo Denki GD / P-series Super BL motors to about 1 kW; compact OEM machinery; replacement of PV Super 30 A DeviceNet amplifiers.



MODEL

**Sanyo Denki
PV2A030SGDNPA1**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

PV2A030SGDNPA1

LISTING

<https://aumictechlabs.com/products/pv2a030sgdnpa1-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Sanyo Denki PV2A030SGDNPA1 is an AC servo amplifier engineered for precision motor control in industrial automation. Part of the SANMOTION P Series, this single-phase amplifier delivers high-speed, high-precision positioning and speed regulation across a wide dynamic range. It integrates advanced PWM control with regenerative and dynamic braking circuits for efficient motion applications.

Technical Specifications

Input: Single-phase 200–240 VAC, 50/60 Hz (± 3 Hz), 0.3 Arms
Motor capacity range: 30–1000 W
Speed control range: 1:5000 (internal velocity command)
Maximum frequency response: 3500 Hz (400 W or lower motors, high-speed command mode)
Allowable load inertia: 10× motor rotor inertia
Peak torque increase: ~7% (new PWM control at high speeds)
High-resolution encoder support: 23-bit standard, optional 27-bit
Operating temperature: 0–+60°C
Maximum operating altitude: 2000 m
Dimensions: W85 × H160 × D130 mm
Mass: 1.50 kg

Key Features

- Dynamic brake circuit and regenerative circuit included
- EtherCAT high-speed fieldbus support
- Configurable discrete I/O (NPN/PNP)
- Pulse train position command input (Line Driver 0–5 V)
- RS-485 half-duplex communication via RJ-45
- Status indicator LEDs for operational monitoring
- Integrated alarm and protection functions
- Control power supply with internal +5 V

Typical Applications

Precision positioning, speed control, automated assembly, material handling, and motion control systems requiring stable, high-resolution feedback and fast response times.

Compatibility & Integration

Designed for Sanyo Denki servo motors within the specified capacity range. Compatible with SANMOTION C S100 and S200 motion controllers. Supports EtherCAT fieldbus architectures. Open Collector control systems require an interface card (e.g., BRINT.A).

Features & description

From manufacturer datasheet

Features

- PV2A030 30 A, 200 VAC, dynamic brake • DeviceNet hardware (S code in PV Super hardware field)
- Position-control shipment (P); GD motor type in this part • Motor capacity class 30 W to 1000 W • Status LEDs; P-series SanMotion architecture • Family also 15 A; wiring-saving incremental 2000 P/R siblings exist

PV2A030SGDNPA1 Characteristics / Specifications

PARAMETER	VALUE
Model	PV2A030SGDNPA1
Manufacturer	Sanyo Denki
Instrument Type	AC Servo Amplifier
Series	PV Super / SanMotionPAlias: PV2A030SGDNPA1; PV2A030
Amplifier Capacity	30 A
Input Voltage Class	200 VAC with dynamic brake
Hardware Type	DeviceNet
Motor Type Code	GD
Control Shipped	position
Motor Capacity Class	30 W to 1000 W
Family Capacities	15 A and 30 A
Family Input	200 VAC PV Super platform
Dynamic Brake	included on this configuration
Status Indicators	status LEDs
Architecture	P-series SanMotion servo amplifier
Related DeviceNet Sibling	PV1A030SGDNP50 30 A DeviceNet 200 VAC
Feedback Family Incremental	2000 P/R wiring-saving incremental on non-DeviceNet PV siblings
Control Options Family	position, speed, or torque by hardware/control code
Adapter Listing	ships with 00360763-01 adapter on some aftermarket photos
Cooling Family	compact PV Super package (forced-air on many 30 A Sanyo 200 V types)
Intended Motors	Super BL / P-series including GD type
Successor Series	PY2 compact amplifiers (example PY2A030 30 A, about 1 kW)
Country Of Origin	Japan
Mounting	panel servo-amplifier package
Power Modulation Family	PV Super digital servo

PARAMETER	VALUE
Discrete Spec Field	A1 suffix on this build
Communications	DeviceNet industrial network
Charge Indication Family	CHARGE lamp on PV/PY 200 V amplifiers (discharge wait after power off)
Protection Family	overload and thermal protection cited on PV Super 30 A listings Notes Specs from Sanyo Denki PV Super series descriptions and PV2A030SGDNPA1 configuration listings (200 VAC, 30 A, DeviceNet, GD, position, dynamic brake). Nameplate current, regen resistor, and motor/encoder parameters belong on the PV Super instruction manual for this exact SGDNPA1 build.

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	
Technical Specifications	
PARAMETER	VALUE
Model	PV2A030SGDNPA1
Manufacturer	Sanyo Denki
Instrument Type	AC Servo Amplifier
Series	PV Super / SanMotion P
Alias	PV2A030SGDNPA1; PV2A030
Amplifier Capacity	30 A
Input Voltage Class	200 VAC with dynamic brake
Hardware Type	DeviceNet
Motor Type Code	GD
Control Shipped	position
Motor Capacity Class	30 W to 1000 W
Family Capacities	15 A and 30 A
Family Input	200 VAC PV Super platform
Dynamic Brake	included on this configuration
Status Indicators	status LEDs
Architecture	P-series SanMotion servo amplifier
Related DeviceNet Sibling	PV1A030SGDNP50 30 A DeviceNet 200 VAC
Feedback Family Incremental	2000 P/R wiring-saving incremental on non-DeviceNet PV siblings
Control Options Family	position, speed, or torque by hardware/control code
Adapter Listing	ships with 00360763-01 adapter on some aftermarket photos
Cooling Family	compact PV Super package (forced-air on many 30 A Sanyo 200 V types)
Intended Motors	Super BL / P-series including GD type
Successor Series	PY2 compact amplifiers (example PY2A030 30 A, about 1 kW)
Country Of Origin	Japan
Mounting	panel servo-amplifier package
Power Modulation Family	PV Super digital servo

PARAMETER	VALUE
Discrete Spec Field	A1 suffix on this build
Communications	DeviceNet industrial network
Charge Indication Family	CHARGE lamp on PV/PY 200 V amplifiers (discharge wait after power off)
Protection Family	overload and thermal protection cited on PV Super 30 A listings

Specifications

PARAMETER	VALUE
Model	PV2A030SGDNPA1
Manufacturer	Sanyo Denki
Instrument Type	AC Servo Amplifier
Series	PV Super / SanMotionPAlas: PV2A030SGDNPA1; PV2A030
Amplifier Capacity	30 A
Input Voltage Class	200 VAC with dynamic brake
Hardware Type	DeviceNet
Motor Type Code	GD
Control Shipped	position
Motor Capacity Class	30 W to 1000 W
Family Capacities	15 A and 30 A
Family Input	200 VAC PV Super platform
Dynamic Brake	included on this configuration
Status Indicators	status LEDs
Architecture	P-series SanMotion servo amplifier
Related DeviceNet Sibling	PV1A030SGDNP50 30 A DeviceNet 200 VAC
Feedback Family Incremental	2000 P/R wiring-saving incremental on non-DeviceNet PV siblings
Control Options Family	position, speed, or torque by hardware/control code
Adapter Listing	ships with 00360763-01 adapter on some aftermarket photos
Cooling Family	compact PV Super package (forced-air on many 30 A Sanyo 200 V types)
Intended Motors	Super BL / P-series including GD type
Successor Series	PY2 compact amplifiers (example PY2A030 30 A, about 1 kW)
Country Of Origin	Japan
Mounting	panel servo-amplifier package
Power Modulation Family	PV Super digital servo

PARAMETER	VALUE
Discrete Spec Field	A1 suffix on this build
Communications	DeviceNet industrial network
Charge Indication Family	CHARGE lamp on PV/PY 200 V amplifiers (discharge wait after power off)
Protection Family	overload and thermal protection cited on PV Super 30 A listings

Notes
Specs from Sanyo Denki PV Super series descriptions and PV2A030SGDNPA1 configuration listings (200 VAC, 30 A, DeviceNet, GD, position, dynamic brake). Nameplate current, regen resistor, and motor/encoder parameters belong on the PV Super instruction manual for this exact SGDNPA1 build.

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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30-day returns
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Generated August 13, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.