Beckhoff — PS Power Supplies

PS3031-2420-0001



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Beckhoff's **PS3031-2420-0001** is a DIN-rail-mounted power supply in the PS Power Supplies series. Within an automation cabinet, it converts three-phase mains power into stabilized 24 V DC for PLCs, I/O terminals, motion controllers, and other connected equipment. Primary-switched regulation maintains a stable output as input conditions and electrical loads change. Active power factor correction reduces unnecessary current demand from the incoming supply, while the low-ripple output supports sensitive control electronics and ancillary actuators.

The supply provides an output of **24 V DC** and can deliver a continuous load current of **20 A**. It supports a momentary current of up to **30 A** for four seconds, accommodating short motor inrush currents or solenoid pull-in demands. The maximum rated output is **480 W**, which establishes the full-load operating capacity of the unit. Converter efficiency reaches **95.0%** at an input of 400 V AC, resulting in a power loss of 25.3 W under full load. Protection circuitry limits the output bus to 35 V DC, helping protect downstream equipment if feedback energy raises the rail voltage. A hold-up time of 22 ms keeps the output within regulation during brief interruptions in the incoming mains supply.

The input draws **0.79 A per phase** at nominal voltage and operates with a power factor of **0.94**, reducing reactive loading on the facility transformer. The housing has a mechanical depth of **127 mm**, a width of 65 mm, and a height of 124 mm. These dimensions allow the unit to fit in shallow enclosures while retaining the clearances needed for airflow. The housing weighs 870 g, supporting installation on lighter-gauge DIN rails without requiring additional mounting hardware. Push-in terminals accept conductors with cross-sectional areas of up to **4 mm²**, providing

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secure connections for power distribution wiring. A strip length of 10 mm permits full conductor insertion without leaving unnecessary bare copper exposed. The compact housing and push-in wiring arrangement help conserve cabinet space and simplify connections to downstream automation equipment.

Specifications

Adjustment Range:	24...28 V DC	**Continuous Current:**	20A	**Depth:**	127mm
Dimension (w X H X D):	65 mm x 124 mm x 127 mm	**Efficiency:**	Approx. 95%	**Efficiency (400vac):**	95.0%
Extra Power:	50% for 4 seconds (720 W)	**Height:**	124mm	**Hold-up Time (400vac):**	22ms
Input Current:	Typical 0.79 A at 400 V AC	**Input Current (400vac):**	0.79A	**Input Voltage:**	3 AC 380...480 V
Mains Frequency:	50...60 Hz	**Max Wire Size:**	4mm²	**Operating Temperature:**	-25...+70C
Output Current:	20 A	**Output Power:**	480W	**Output Voltage:**	24Vdc
Overvoltage Limit:	35Vdc	**Peak Current (4s):**	30A	**Power Factor (400vac):**	0.94
Power Loss (400vac):	25.3W	**Protection Rating:**	IP20	**Shock Resistance:**	Conforms to EN 60068-2-27
Strip Length:	10mm	**Vibration Resistance:**	Conforms to EN 60068-2-6	**Weight:**	870g
Wide-range Input:	Yes	**Width:**	65mm	**Last Verified:**	11/09/2026 7:09 AM

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