

## Three-phase, primary switched mode power supply, Basic

### PVSB 400/24-20



Picture shows PVSB 400/24-20

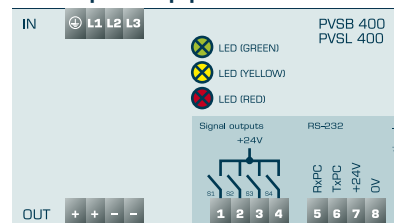
## Advantages

LCD
Output current and voltage monitoring
RS-232 interface
Stabilised and digitally adjustable output voltage
Up to 200 % Real Power Boost for 4 seconds
Top boost to trip miniature circuit breakers
3 LEDs and active signal outputs to indicate operating status
Parallel connection option
Service-friendly spring-loaded connector system
Can be supplied with active inrush current limiting option
Panel installation on mounting rails

## Applications

Primary switch mode power supply with high power reserves for all automation requirements with a variety of parameter setting and display functions, including output current and output voltage monitoring.

## Sample application



## Standards

Primary switched mode power supply  
to UL 60950, UL 508

Safety:  
EN 61558-2-16, EN 60950-1

EMC:  
EN 61204-3

## Approvals



UL/CSA 60950 recognised, UL508 listed



## Three-phase, primary switched mode power supply, Basic **PVSB 400/24-20**

Type	PVSB 400/24-20
<b>Electrical data</b>	<b>Input</b>
	Input rated voltage 3 x 400 - 500 Vac
	Input voltage range 340 - 550 Vac (480 - 780 Vdc)
	Input rated current (rated load) 1.1 A (3 x 340 Vac)
	Rated frequency range 44 Hz - 66 Hz / 0 Hz
	Starting current limiter <30 A, NTC
	Input fuse internal 3 x 2.5 A (slow-blow)
	Recommended back-up fuse (circuit breaker) 6 A, 10 A, 16 A, characteristics B, C
	Harmonic correction passive
	Transient surge voltage protection Varistor
	Mains buffering 13.2 / 36.8 ms (400 / 500 Vac)
<b>Electrical data</b>	<b>Output</b>
	Output rated voltage 24 Vdc $\pm 1\%$
	Output voltage range 22.8 - 28.8 Vdc
	Resistance to reverse feed max. 35 Vdc
	Output rated current 20.00 A
	Parallel connection Yes
	Power Boost 40 A / 4 s (30 A / 8 s)
	Overload behaviour Constant current or fuse
	Efficiency typ. 92.9 %
	Ripple factor typ. 70 mVss
	Top Boost 80 A / 50 ms
	<b>Signaling</b>
	Power Good (DC OK) LED green, LED red, LED yellow
	Potential free signal contact No
	Active signal outputs 4 x 24 Vdc, 2 configurable
	Stand-by-input No
	Display, interface Yes, RS 232
<b>Electrical data</b>	<b>Approvals</b>
	Approvals cURus, cULus
	<b>Environment</b>
	Ambient temperature -25° C to +70° C
<b>Electrical data</b>	Storage temperature -25° C to +85° C
	Derating -3 %/K > +50° C
	<b>Safety and protection</b>
<b>Electrical data</b>	Protection index IP 20
	Safety class I, with PE connection
<b>Electrical data</b>	<b>Accessory</b>
	Connector for signalling PV-CON (optional)
	Adapter cable for interface PV-KOK2 (optional)
	Side DIN Rail mounting PV-TS35M (optional)
	Direct screw fastening plate for lateral mounting PV-WB2 (optional)
<b>Electrical data</b>	<b>Order numbers</b>
	<b>Order Number</b> <b>PVSB 400/24-20</b>

Type	PVSB 400/24-20
<b>Mechanical data</b>	<b>Terminal and mounting</b>
	Connections input, (spring clamp terminal, pluggable) max. 2.5 mm <sup>2</sup>
	Connections output, (spring clamp terminal, pluggable) max. 10 mm <sup>2</sup>
	Connections signalling, (spring clamp terminal, pluggable) max. 0.5 mm <sup>2</sup>
	Mounting position vertical
<b>Mechanical data</b>	Fixing method DIN Rail system TH 35
	<b>Measures and weights</b>
<b>Mechanical data</b>	Weight 1.76 kg

