

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



Picture shows PVSB 400/24-20

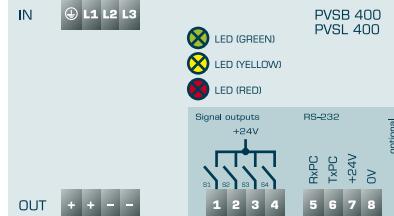
## Advantages

- 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**

### Electrical data

Type	PVSB 400/24-20
<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>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>Approvals</b>	
Approvals	cURus, cULus
<b>Environment</b>	
Ambient temperature	-25° C to +70° C
Storage temperature	-25° C to +85° C
Derating	-3 %/K > +50° C
<b>Safety and protection</b>	
Protection index	IP 20
Safety class	I, with PE connection
<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>Order numbers</b>	
Order Number	<b>PVSB 400/24-20</b>

### 30

Type	PVSB 400/24-20
<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
Fixing method	DIN Rail system TH 35
<b>Measures and weights</b>	
Weight	1.76 kg

