

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

### PVSB 400/24-20



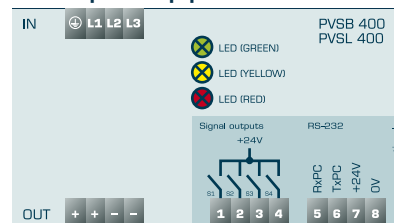
## Advantages

|                                                               |
|---------------------------------------------------------------|
| 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>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>                                                             |
|                        | <b>Order Number 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                                                          |
|                        | Fixing method DIN Rail system TH 35                                                 |
|                        | <b>Measures and weights</b>                                                         |
|                        | Weight 1.76 kg                                                                      |

