

Single-phase, primary switched mode power supply

PVSA 230/30-3



Picture shows PVSA 230/30-3

Advantages

Stabilized and adjustable output voltage
Up to 200 % Real Power Boost for 4 seconds
Top boost to trip miniature circuit breakers
DC OK signalling via LEDs
Parallel connection option
Service-friendly spring-loaded connector system
Optional with active inrush current limiter
Panel installation on mounting rails
Compatible to AS-i

Applications

Primary switched mode power supply with integrated output filter for AS-i bus system.

Standards

Primary switched mode power supply
to UL 60950, UL 508

Safety:
EN 60950 (SELV), EN 60204 (PELV)

EMC:
EN 55022 (Interference emissions), EN 61000-4-3 (Interference immunity)

Approvals





Single-phase, primary switched mode power supply PVSA 230/30-3

Type	PVSA 230/30-3
Electrical data	
Special features	
Characteristics	Compatible to AS-i
Input	
Input rated voltage	100 - 240 Vac
Input voltage range	85 - 264 Vac (120 - 350 Vdc)
Input voltage derating	5%/Vac < 95 Vac
Switch-on time	700 ms
Transient surge voltage protection	Varistor
Input rated current (rated load)	1,13/0,7 Aac (100 Vac/ 240 Vdc)
Power factor	0,68
Starting current limiter	< 30 A
Input fuse internal	4 AT
Frequency Range	50 Hz - 60 Hz
Recommended back-up fuse (circuit breaker)	6 A, 10 A, 16 A, characteristic B, C
Mains buffering (rated load)	typ. 80 ms @230 Vac
Output	
Output rated voltage	30,5 Vdc
Output voltage range	29,0 - 32,0 Vdc
Resistance to reverse feed max.	50 Vdc
Output rated current	3 A
Power Boost	6 A / 4 s (4,5 A / 8 s)
Top Boost	18 Adc for 25 ms
Overload behaviour	Constant current
Parallel connection	Yes
max. Power loss idling/nominal load	7,3 W/20 W
Efficiency	82 %
Correction time	typ. 1 ms
Output limited current	typ. 1,1 x Inenn
Leakage current (50 Hz)	1 mA
Signaling	
Status indicator	LED green: Uout > 0,85 x Unenn; LED red: off
Environment	
Ambient temperature	-10 °C ...+70 °C
Storage temperature	-13 °F to +185 °F
Derating	-3 %/K > +122 °F
Required minimum spacing (left/right)	0.00 inch
Type of cooling	Natural convection
Required minimum spacing (over/under)	2.76 inch
Safety and protection	
Protection index	IP 20
Safety class (prepared)	I
Accessory	
Connector for signalling	PV-CON (optional)
Order numbers	
Order Number	PVSA 230/30-3

Type	PVSA 230/30-3
Mechanical data	
Terminal and mounting	
Terminals Input	WAGO series 231, max. 2,5 mm ²
Terminals Output	WAGO series 231, max. 2,5 mm ²
Fixing method	DIN rail mounting
Measures and weights	
Weight	2.56 lbs

Dimensions in inch

