

ASi Power Supply, 8 A

115 V AC/230 V AC power supply with range switch

SELV

LED operation indicator

ASi data decoupling

Power factor correction



(figure similar)



The primary clocked power supply is supposed for fieldbus applications, which transport energy and data via a 2-wire line at the same time.

The ASi Supply powers a fully loaded ASi system with a maximum output current of 8 A. The sinusoidal current consumption of the power supply prevents harmonic waves. The current is approximately in phase with the voltage by means of the passive

power factor correction and leads to only a little reactive power. This guarantees a power factor $\cos\varphi \geq 0.6$.

Besides the energy supply the power supply takes over also the function of data decoupling to the power source and the balancing of the two ASi output lines in relation to the machine ground (shield).

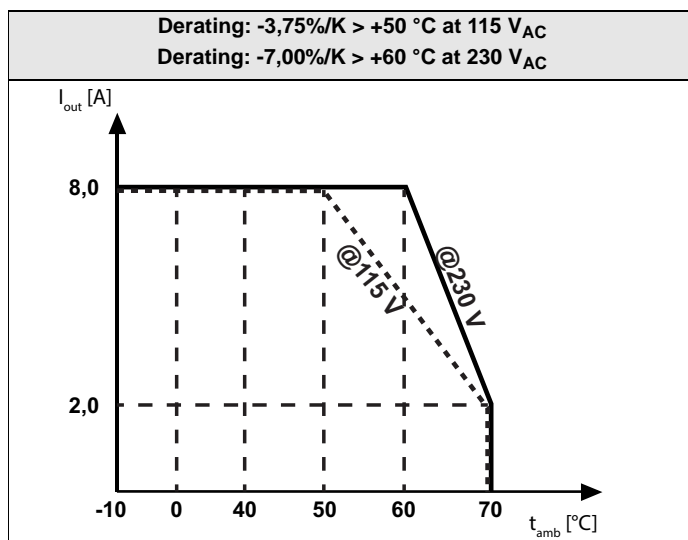
Due to the accurate and transformic coupling the use of unscreened load lines is possible.

Article no.		BW1997
Input		
Power factor		approx. 0.6 (according to input voltage)
Input frequency		47 ... 63 Hz
Voltage range U_e		115 V _{AC} /230 V _{AC}
Efficiency		approx. 90%
Input current I_e		without idle current at 230 V _{AC}
		approx. 1.2 A
Input fuse		internal fuse
		electronic fuse against external short circuits
Turn on surge current		<30 V
Output		
Output voltage		30.9 ... 31.5 V _{DC}
Remaining ripple		according to ASi specification
Output current	up to +40 °C	8 A ^{(1) (2)}
	at +50 °C	8 A ⁽²⁾
	at +70 °C	2 A ⁽²⁾
Current limitation		approx. 8.5 A
Displays		
LED power (green)		power on
LED Overload (red)		overload error

Article no.	BW1997
Environment	
Applied standards	EN 60950, UL 60950 EN 61000-6-2, EN 61000-6-3 EN 61000-3-2 class A EN 55011 class B
Operating altitude	max. 2000 m
Ambient temperature	at 230 V _{AC} : -10 °C ... +60 °C (up to max. +70 °C) ^{(1) (2)} at 115 V _{AC} : -10 °C ... +50 °C (up to max. +70 °C) ^{(1) (2)}
Storage temperature	-25 °C ... +85 °C
Protection category acc. EN 60529	IP20
Protection class acc. EN 61140	I
Overtoltage category	II
Weight	1200 g
Dimensions (W / H / D in mm)	70 / 141 / 151
Dimensions including connector plug (W / H / D in mm)	70 / 141 / 169

(1) Maximum ambient operating temperature -10 ... +40 °C according UL certificate for the use in the USA and Canada.

(2)



Dimensional drawing	Connections
BW1997	BW1997
<p>Notice:</p> <ul style="list-style-type: none"> • Clamp GND must be connected with machine ground. • Air circulation in the power supply may not be disturbed: therefore when mounting see that is at least 10 cm free space down and sufficiently free space above! 	