SLC 500

Product Data Sheet

1746-P1

AC chassis power supply

AC INPUT RANGES	INPUT FREQUENCY	TYPICAL INPUT DEMAND	MAXIMUM INRUSH CURRENT
85–132 / 170–265 V AC	**47–63 Hz**	**135 VA**	**20 A**

Allen-Bradley 1746-P1 is an AC-operated chassis power supply for the SLC 500 modular controller platform. It supplies regulated 5 V and 24 V DC backplane power to the processor and I/O, with separate capacity limits of 2 A and 0.46 A.

01 TECHNICAL DATA

AC input ranges	85–132 / 170–265 V AC
Input frequency	47–63 Hz
Typical input demand	135 VA
Maximum inrush current	20 A
5 V backplane capacity	2 A
24 V backplane capacity	0.46 A
User supply capacity	200 mA at 24 V DC
User supply voltage range	18–30 V DC
Supply fuse	1746-F1; 250 V, 3 A equivalent
Maximum upstream protection	15 A, time-delay

Allen-Bradley SLC 500 User Manual 1747-UM011E-EN-P; power-supply specifications, page 2-14.

02 ADDITIONAL PRODUCT DATA

Operating temperature	0 to +60 °C
High-temperature derating	5% above +55 °C
Input-to-backplane isolation	1800 V AC RMS for 1 s
Full-load hold-up time	20 ms
No-load hold-up time	3000 ms

03 PRODUCT FUNCTION

The supply accepts either 85–132 V AC or 170–265 V AC at 47–63 Hz and provides a 200 mA user-accessible 24 V DC source. A replaceable 1746-F1 fuse and specified input isolation form part of its electrical design; available capacity is derated at ambient temperatures above 55 °C.

04 SYSTEM COMPATIBILITY

Match the selected AC input range to the measured supply and provide the documented time-delay upstream protection. Keep user-load demand within 200 mA, and account for the separate 18–30 V DC user-output range when selecting connected devices.

05 REFERENCE

Allen-Bradley SLC 500 User Manual 1747-UM011E-EN-P; power-supply specifications, page 2-14.

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