

Allen-Bradley 1785-L86B

Allen Bradley PLC 5 PLC-5/86 Standard Processor, 3072 Max Analog I/O, 100 Kilowords, 3.3 Amperes Backplane Current (at 5 Volts), Protected Memory Technical specifications for 1785-L86B

Manufacturer Rockwell Automation

Brand Allen-Bradley

Part Number/Catalog No. 1785-L86B

Module Type Standard Processor

Processor PLC-5/86

Max User Memory Words 100 Kilowords

Battery-Backed Static RAM Yes

EEPROM Program Backup Option (using 1785-ME16, -ME32, -ME64, and -M100) Yes

Protected Memory Yes

Max Total I/O 3072 (any mix) or 3072 in + 3072 out (complementary)

Max Analog I/O 3072

I/O Scan Time Per Rack 10 ms at 57.6 kbits/s, 7 ms at 115.2 kbits/s, 3 ms at 230.4 mbits/s

Max I/O Chassis Total 93

Max I/O Chassis Extended Local 0

Max I/O Chassis Universal Remote 32 Max. Per I/O Link

RS-232-C/422-A/423-A Ports 1

Control Coprocessor Expansion Port Yes

UPC 10612598126139 Description

The 1785-L86B PLC-5/86 Enhanced Programmable Controller with Protected Memory by Allen-Bradley is a high-speed controller installed in a single 1771 I/O chassis slot with an I/O capacity of 3072 and it is used to control the processes of field devices and processing of information. The controller processes I/O information using the 100K words SRAM memory and it can accommodate a total of 93 I/O chassis links with 32 remote chassis per link, and it supports a maximum of 24 I/O racks. The 1785-L86B requires a backplane current of 3.3A at 5V DC and it offers voltage isolation tested to 500V for 60 seconds between communication ports and between communication ports and relay cartridge tested at 300V for 60s. When operational, it dissipates 17.3W heat and it can withstand an operational shock of 30G and a vibration of 2G at a 10-500Hz frequency. The controller uses the 1785-RC relay cartridge for interface with other devices and it is compatible with the 1771 memory modules. The 1785-L86B supports and processes information from the 8-point, 16-point, 32-point, and intelligent 1771 I/O modules and it sets the hardware address through the 2-slot, 1-slot, and ½-slot addressing modes. It communicates through the 4 Data Highway Plus/Remote I/O communication ports and supports the Ladder Logic, Sequential, and Structured Text programming languages. The 1785-L86B has a working temperature range between 0 and 60 °C (32 and 140 °F) at 5-95% relative humidity range without condensation and it is stored between -40 and 85 °C (-40 and 185 °F). It

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weighs approximately 1.42kg and is built to meet CSA, UL, C-TICK and CE standards and applicable specifications.



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