

Allen-Bradley 1762-L40BxB

The 1762-L40BxB programmable controller is an Allen-Bradley/Rockwell Automation MicroLogix 1200 series programmable controller. It has an input voltage rating of 24 Volts DC. The 1762-L40BxB programmable controller has 24 total inputs and 16 total outputs. The 24 inputs include 20 inputs that are rated at 24 Volts DC and 4 inputs which are fast 24 Volts DC rated inputs. The 16

Technical specifications for 1762-L40BxB

Manufacturer Rockwell Automation

Brand Allen-Bradley

Series MicroLogix 1200

Part Number/Catalog No. 1762-L40BxB

Product Type Programmable Controller

Power Supply 24V dc (-15%, +10%) Class 2 SELV

No. of Inputs Twenty-Four (24)

Outputs (8) Relay, (7) 24 Volt DC FET, and (1) High-Speed 24 Volt DC FET

Input Power 24 Volts DC

No. of Outputs Sixteen(16)

Inputs (20) 24 Volt DC and (4) Fast 24 Volt DC

Input Circuit Type 24 Volts DC Sink/Source

Power Supply Voltage 100 to 240 Volts

Output Circuit Type Relay / FET

Weight 2.4 pounds

Relay Contact Rating 24-125VDC; 120-240VAC

Heat Dissipation 21 Watts

Mechanical Cycles 20,000,000

Operating Frequency 0 to 20 kHz

Load Current 10A, minimum

Dimensions Height: 90 mm 104 mm (with DIN latch open); Width: 160 mm; Depth: 87 mm

Ambient Operating Temp 0 to 55 degrees Celsius

Power Supply Usage 82 VA

Power supply inrush current 120V ac: 25A for 8 ms; 240V ac: 40A for 4 ms

Description
The Allen-Bradley 1762-L40BxB is a MicroLogix 1200 programmable controller. This module has 24 inputs and 16 outputs and weighs 2.4 pounds. The power supply is 100 to 240 Volts AC at 47 to 63 Hertz. The heat dissipation of this module is 21 Watts. The power supply usage is 80 VA. At 5 Volts DC, the power supply output will be 600 mA while at 24 Volts DC, the power supply output will be 500 mA. The input circuit type of the 1762-L40BxB is 120 Volts AC circuit and the output circuit is a Relay / FET type. The 1762-L40BxB has Two (2) input groups. The first group is for inputs 0 to 3 while the second group is for inputs 4 and beyond. For inputs 0 through 3, the on-state voltage is 14 to 24 Volts DC, the off-state voltage range is 0 to 5 Volts DC, and the operating frequency is 0 to 20 kHz. The normal impedance is 3.3 K Ω . For inputs 4 and above the

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on-state voltage range is 10 to 24 Volts DC, the operating frequency is 0 to 1 kHz, and the nominal impedance is 2.7 K Ω . Both inputs 0 through 3 and inputs 4 and above has the same off-state leakage current of 1.5 mA. The current per group of the 1762-L40BXB is 8 Amps. Do not exceed the current per group common specification to avoid damaging this module.

This controller is also integrated with trimmer potentiometers that is primary intended for data modification or simulation of an analog data. This trim potentiometer may be used as a timer, counter, or analog simulation register. To modify the potentiometer value, a small flathead screwdriver is required typically, a precision screwdriver. This controller is also provided with an integrated memory module which may be replaced by an equivalent part number of 1762-MM1. If Real-Time Clock is needed, a 1762-RTC memory module may be purchased. This optional module replaces the integrated 1762-MM1. If both functions are needed, a 1762-MM1RTC may be purchased which combines memory and real-time clock functionality. Real-Time clock is sometimes required in applications where timestamps are important and if the process controls machine or processes that run on accurate schedule. The memory module is used to store user program and prevent user program deletion.

The controller is provided with an integrated power supply that is operated with an input voltage of 24VDC. This integrated power supply provides power to the internal circuitry of the controller and to the distribution bus. It is also provided with an RS232 port via an 8-Pin mini DIN terminal. The RS232 terminal supports ASCII, DH485, MODBUS and DF1 communication protocol. This terminal is used to download and upload user program as well as monitor, test and commission the controller.

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