

Allen-Bradley 1746 1747 Series Service Manual

1762-L24BXB

1. Description

The Allen-Bradley 1762-L24BXB is a MicroLogix 1200 Programmable Logic Controller (PLC). This controller has Ten (10) standard 24VDC inputs, Four (4) Fast 24VDC inputs, Five (5) relay, Four (4) 24VDC FET and One (1) high-speed output. For communication, it has an embedded 8-pin mini-DIN communication port supporting DF1, DH-485, ASCII, MODBUS protocols. This controller is powered by

Technical specifications for 1762-L24BXB

2. Specifications

Specification	Value
Manufacturer	Rockwell Automation
Power	Supply Usage 40W
Shipping	Weight 2.4 pounds
Dimensions	Height: 90 mm 104 mm (with DIN latch open); Width: 160 mm; Depth: 87 mm
Part	Number/Catalog No. 1762-L24BXB
Brand	Allen-Bradley
Power	Supply 24VDC
No.	of Inputs Ten (10) 24V dc; (4) fast 24V dc
No.	of Outputs Five (5) relay; Four (4) 24V dc FET; (1) high-speed 24V dc FET
Input	Circuit Type 24 VDC sink / source
Output	Circuit Type Relay; FET
Relay	Contact Rating 24-125VDC; 120-240VAC
Mechanical	Cycles 20000000
Load	Current 10A, minimum
Communication	Ports One (1) 8-Pin mini-DIN serial port;
Supported	Protocols DF1, DH-485, ASCII, MODBUS
Ambient	Operating Temp 0 to 55 degrees Celsius
Power	supply inrush current 120V ac: 25A for 8 ms; 240V ac: 40A for 4 ms
Series	MicroLogix 1200
Module	Type Programmable Controller
Inputs	(10) 24V DC and (4) Fast 24V DC
Outputs	(5) Relay, (4) 24V DC FET, (1) High Speed 24V DC FET
Input	Power 24V DC
Power	Supply Output 400 or 350 milliamps
Operating	Frequency 0-20

3. Product Information

The Allen-Bradley 1762-L24BXB is a MicroLogix 1200 Programmable Logic Controller (PLC). This controller has Ten (10) standard 24VDC inputs, Four (4) Fast 24VDC inputs, Five (5) relay, Four (4) 24VDC FET and One (1) high-speed output. For communication, it has an embedded 8-pin mini-DIN communication port supporting DF1, DH-485, ASCII, MODBUS protocols. This controller is powered by

Technical specifications for 1762-L24BXB

Manufacturer Rockwell Automation

Power Supply Usage 40W

Shipping Weight 2.4 pounds

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

Part Number/Catalog No. 1762-L24BXB

Brand Allen-Bradley

Power Supply 24VDC

No. of Inputs Ten (10) 24V dc; (4) fast 24V dc

No. of Outputs Five (5) relay; Four (4) 24V dc FET; (1) high-speed 24V dc FET

Input Circuit Type 24 VDC sink / source

Output Circuit Type Relay; FET

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

Mechanical Cycles 20000000

Load Current 10A, minimum

Communication Ports One (1) 8-Pin mini-DIN serial port;

Supported Protocols DF1, DH-485, ASCII, MODBUS

Ambient Operating Temp 0 to 55 degrees Celsius

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

Series MicroLogix 1200

Module Type Programmable Controller

Inputs (10) 24V DC and (4) Fast 24V DC

Outputs (5) Relay, (4) 24V DC FET, (1) High-Speed 24V DC FET

Input Power 24V DC

Power Supply Output 400 or 350 milliamps

Operating Frequency 0-20 kilohertz

UPC 10612598279309

UNSPSC 32151705 Description

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The 1762-L24BXB is an Allen-Bradley MicroLogix controller. This controller is ideally used for micro and small automation requirements. This controller is of a compact type controller, provided with comprehensive range of I/O channels such as Ten (10) standard 24VDC inputs, Four (4) Fast 24VDC inputs, Five (5) relay, Four (4) 24VDC FET and One (1) high-speed output. These I/O channels enable this controller to be used in general purpose and some specific applications such as counting, totalizing and position monitoring.

The 1762-L24BXB has a built-in power supply that operates with a nominal input supply voltage of 24VDC. It comes with a mini-DIN 8 pin circular RS232 connector that is installed on the controller's front panel that may be used for most communication functions, specifically, programming, hardware configuration, online edits and communication with visualization systems such as Supervisory Control and Data Acquisition (SCADA) and human Machine Interface (HMI). The 1762-L24BXB is designed to withstand an inrush current of 15A for 20 ms. The embedded power supply provides output current of 400 mA at 5VDC and 350 mA at 24VDC with power supply usage of 27 Watts. This controller must be operated at operating temperature range of +0°C to +55°C (+32°F to +131°F) or stored at a facility with -40°C to +85°C (-40°F to +185°F) at 5-95% relative humidity.

This controller supports either DIN rail or direct panel mounting. It has a physical measurement of 90mm or 104 mm (with DIN latch open), 110 mm (W) and 87 mm (D).

This equipment is designed for use in an industrial enclosure which reduces the effects of electrical interference and environmental exposure. Install this device as far as possible from load lines, power lines, relays, AC motor drives, and other electrical noise. The 1762-L24BXB has different specifications than other controller modules. Its heat dissipation is 17 Watts and its power supply inrush current is 15 Amps for 20 milliseconds at 24 Volts DC. The power supply usage of the 1762-L24BXB is 27 Watts. The output circuit type of this module are both Relay and FET type. The input circuit type is 24 Volts DC sink or source. This module has no sensor power output. The minimum output load current is 10 mA, the common current per group is 7.5 Amps, and the power supply output of the 1762-L24BXB is 400 mA at 5 Volts DC and 350 mA at 24 Volts DC.