

Allen-Bradley 1746 1747 Series Service Manual

1762-L24AWA

1. Description

The Allen-Bradley 1762-L24AWA is a MicroLogix 1200 Programmable Logic Controller (PLC). This controller has Fourteen (14) 120VAC inputs and Ten (10) relay outputs. For communication, it has an embedded 8-pin mini-DIN communication port supporting DF1, DH-485, ASCII, MODBUS protocols. This controller is powered by an external 120/240VAC nominal supply voltage. Technical specifications for 1762-L24AWA

2. Specifications

Specification	Value
Manufacturer	Rockwell Automation
Dimensions	Height: 90 mm 104 mm (with DIN latch open); Width: 160 mm; Depth: 87 mm
Part	Number/Catalog No. 1762-L24AWA
Brand	Allen-Bradley
Power	Supply 24VDC
No.	of Inputs Fourteen (14) 120 VAC;
No.	of Outputs Ten (10) relay
Input	Circuit Type 120VAC
Output	Circuit Type Relay
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
Shipping	Weight 2.0 pounds
Ambient	Operating Temp 0 to 55 degrees Celsius
Power	Supply Usage 68 VA
Power	supply inrush current 120V ac: 25A for 8 ms; 240V ac: 40A for 4 ms
Product	Line MicroLogix 1200
Module	Type Programmable Controller
Input	Power 120-240V AC
Inputs	(14) 120V AC
Outputs	(10) Relay
Operating	Frequency 47 to 63 Hertz
On-State	Current 12 milliamps
Inrush	Current (Max) 250 milliamps
UPC	10612598207173 Description
The	Allen-Bradley 1762-L24AWA MicroLogix 1200 Programmable

3. Product Information

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Manufacturer Rockwell Automation

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

Part Number/Catalog No. 1762-L24AWA

Brand Allen-Bradley

Power Supply 24VDC

No. of Inputs Fourteen (14) 120 VAC;

No. of Outputs Ten (10) relay

Input Circuit Type 120VAC

Output Circuit Type Relay

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

Shipping Weight 2.0 pounds

Ambient Operating Temp 0 to 55 degrees Celsius

Power Supply Usage 68 VA

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

Product Line MicroLogix 1200

Module Type Programmable Controller

Input Power 120-240V AC

Inputs (14) 120V AC

Outputs (10) Relay

Operating Frequency 47 to 63 Hertz

On-State Current 12 milliamps

Inrush Current (Max) 250 milliamps

UPC 10612598207173 Description

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The Allen-Bradley 1762-L24AWA MicroLogix 1200 Programmable Controller is an industrial-based controller with a power supply. The controller requires an AC input power supply with input voltage ranging from 100 to 240 Volts AC at 47 to 63 Hertz and an inrush current of 25A for 8 milliseconds at 120 Volts AC and 40A for 4 milliseconds at 240 Volts AC, with a maximum power consumption of 68 VA. The controller also provides an output of 400 mA and 350 A at 5 Volts DC and 24 Volts DC respectively.

The 1762-L24AWA has 14 (120 Volts AC) digital inputs, with 79 to 132 Volts AC in an ON-state and 0 to 20 Volts AC in OFF-state at 47 to 63 Hertz. Its digital inputs also have an ON-state current of 5 mA at 79 Volts AC and 16 mA at 132 Volts AC, with its maximum leakage in the OFF state at 2.5 mA, and its overall inrush current is 250 mA at 120 Volts and at an impedance of 10/12kOhms at 60 to 50 Hertz.

The 1762-L24AWA has 10 relay outputs with a maximum load control of 1440VA, and with an 8A load per output group and a 30A load (per controller) at 150 Volts AC, and one of 20A at 240 Volts AC. Its relay output has an ON/OFF time of 10ms with a signal relay life of 20 million cycles and the minimum possible load on each output point is 10 mA. It has an operating temperature bracket of 0-55 degrees Celsius (32 to 131 degrees Fahrenheit) at a relative humidity range of 5 to 95% non-condensing and it is designed for storage at a range of -40 to 85 degrees Celsius (-40 to 185 degrees Fahrenheit). The 1762-L24AWA Programmable Controller is ideal for a clean, dry environment with circuits that do not exceed Over Voltage Category II. The 1762-L24AWA is built to resist an operational vibration of 1.5G at 10 to 500 Hertz and is tested to withstand a 15G operational shock. It weighs approximately 0.9 kilograms (2.0 pounds), with net dimensions of 90 x 110 x 87 millimeters and it is UL, c-UL, and CE-certified. The 1762-L24AWA controller should be mounted horizontally.