

Allen-Bradley 1746 1747 Series Service Manual

1762-L24BWA

1. Description

The 1762-L24BWA is an Allen-Bradley Twenty-Four (24) point controller module. This MicroLogix 1200 unit has Fourteen (14) inputs compatible for 24 Volts DC input voltage and supports sinking or sourcing wiring configuration. It also has Ten (10) Relay output. This controller supports DIN Rail or Panel Mounting. Technical specifications for 1762-L24BWA

2. Specifications

Specification	Value
Manufacturer	Rockwell Automation
Brand	Allen-Bradley
Input	Power 120 to 240 Volts AC
Part	Number/Catalog No. 1762-L24BWA
Inputs	10 rated at 24 Volts DC and 4 Fast rated at 24 Volts DC
Outputs	10 Relay
No.	of Inputs Fourteen (14)
Input	Circuit Type 24 Volts DC Sink/Source
No.	of Outputs Ten (10)
Output	Circuit Type Relay
Relay	Contact Rating 24-125VDC; 120-240VAC
Mechanical	Cycles 20,000,000
Dimensions	Height: 90 mm, 104 mm (with DIN latch open) Width: 110 mm Depth: 87 mm
Load	Current 10A, minimum
Shipping	Weight 2 pounds
Ambient	Operating Temp 0 to 55 degrees Celsius
UPC	10612598207210
UNSPSC	32151705
Heat	Dissipation 15.7 W
Power	supply inrush current 120V ac: 25A for 8 ms; 240V ac: 40A for 4 ms Description
The	1762-L24BWA is an Allen-Bradley Programmable Logic Controller (PLC). It is part of the Allen-Bradley 1762 series of PLCs. This controller module has Fourteen (14) digital inputs designed for 24 Volts DC and Ten (10) Relay Outputs. This controller is powered with a supply volt

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Outputs 10 Relay

No. of Inputs Fourteen (14)

Input Circuit Type 24 Volts DC Sink/Source

No. of Outputs Ten (10)

Output Circuit Type Relay

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

Mechanical Cycles 20,000,000

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The 1762-L24BWA is an Allen-Bradley Programmable Logic Controller (PLC). It is part of the Allen-Bradley 1762 series of PLCs. This controller module has Fourteen (14) digital inputs designed for 24 Volts DC and Ten (10) Relay Outputs. This controller is powered with a supply voltage of 24VDC.

The 1762-L24BWA has a compact form and requires a minimum mounting space, ideal for installation in enclosures with tight spaces. The module has dimensions of 3.5 inches in height, 4.33 inches in width, and a length of 3.43 inches. The controller module weighs 2 pounds. The 1762-L24BWA drive uses a relay output circuit and it has a mechanical relay lifespan of 20,000,000 cycles. The heat dissipation rate of the drive is 15.6 Watts. The controller module can only be operated with an ambient running temperature between 0 and 55 degrees Celsius. The 1762-L24BWA controller can be mounted using a DIN Rail as mounting base or direct panel mounting through the provided slots. This controller has integrated RS232 communication port that supports DH485, DF1, Modbus Master and Slave and ASCII protocols. The drive has been manufactured and tested to meet the EMC directives for electromagnetic compatibility under the Council Directive 89/334/EEC. The controller features an Master Control Relay for emergency machine shutdown. This controller supports installation of expansion I/O to complement the integrated Input and output channels.

When installing an expansion module, Remove the power before removing or inserting an expansion I/O module. If the power is still on, an electrical arc may occur and cause personal injury. Electrical arcing can also wear out the contacts on both the module and its connector. Worn contacts may create electrical resistance which may lead to reducing the product's lifespan and reliability. Be sure also to disconnect the power to the controller system before installing and wiring any device.

The 1762-24BWA is a MicroLogix 1200 Programmable Logic Controller (PLC) that is manufactured by Allen-Bradley. This controller belongs to compact controller types wherein Power Supply, Integrated Input and Output channels, Communication ports and Memory modules are installed in one common compact enclosure. This compact controller is ideal for use in small applications, with the capability of being expanded to enhance the controller's native features.

The integrated power supply of this controller operated as 24VDC. When supplied with the appropriate Voltage, the controller is energized including other circuitry. The integrated communication port of this controller is an 8-Pin mini DIN RS232 port that support multiple protocols such as DH-485, DF1 Full-duplex, DF1 Half-duplex, DF1 Radio Modem, Modbus Master and Slave and ASCII protocols. DH485 is designed for peer-to-peer or networked architecture, DF1 is exclusive for Peer-to-peer transactions, Modbus supports networked architecture while ASCII protocols is ideal for direct communication to intelligent devices. It may also be used to communicate with computer-based interfaces such as a Human Machine Interface (HMI) or a Supervisory Control and Data Acquisition (SCADA). As the Rs232 communication is limited for stand-alone or peer-to-peer connection, this port may be enabled to multiplex with the use of external Interface Converters such as the 1761- NET-AIC.

The 1762-L24BWA features Fourteen (14) 24VDC inputs and Ten (10) relay outputs. It also has an integrated Memory which is shipped along the module. This module may be able be replaced with a Real-Time clock module. The controller is also included with Two (2) Potentiometers that can be used to for analog simulation.