

Allen-Bradley 1746 1747 Series Service Manual

1762-L40BWA

1. Description

The 1762-L40BWA is an Allen-Bradley 40-point controller module. This MicroLogix 1200 unit has Twenty-Four (24) inputs compatible for 24 Volts DC input voltage and supports sinking or sourcing wiring configuration. It also has Sixteen (16) Relay output. This controller supports DIN Rail or Panel Mounting. Technical specifications for 1762-L40BWA

2. Specifications

Specification	Value
Manufacturer	Rockwell Automation
Brand	Allen-Bradley
Input	Power 120 to 240 Volts AC
Part	Number/Catalog No. 1762-L40BWA
Inputs	(20) 24 Volts DC and (4) Fast 24 Volts DC
Outputs	(16) Relay
No.	of Inputs Twenty-Four (24)
No.	of Outputs Sixteen(16)
Operating	Temperature 0 to 50 degrees Celsius
Input	Circuit Type 24 Volts DC Sink/Source
Operating	Frequency 47 to 63 Hertz
Output	Circuit Type Relay
Internal	Power Supply Yes
Relay	Contact Rating 24-125VDC; 120-240VAC
UPC	10612598207234
Mechanical	Cycles 20,000,000
Dimensions	Height: 90 mm 104 mm (with DIN latch open); Width: 160 mm; Depth: 87 mm
Load	Current 10A, minimum
Shipping	Weight 2.4 pounds
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
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Power supply inrush current 120V ac: 25A for 8 ms; 240V ac: 40A for 4 ms Description

The 1762-L40BWA is a Programmable Logic Controller (PLC). This controller is a MicroLogix 1200 by Allen-Bradley. It features a total of Forty (40) Input and Output channels which specifically consists of Twenty-Four (24) Discrete inputs and Fourteen (14) Discrete Outputs. The input channels are designed for interfacing input devices that carry 24VDC via sinking and sourcing wiring configuration. The outputs are contact outputs that are rated for 25-125 VDC or 120 - 240 VAC with mechanical life of 20,000,000 cycles and rated for a minimum of 10A load.

This controller has an integrated 8-pin Mini DIN RS232 communication port that supports DH-485, DF1 Full and Half Duplex, Modbus Master and Slave and ASCII protocols. DF1, ASCII and Modbus in this controller operates in peer-to-peer configuration. Converters may be used to multiplex the serial port to allow communication to multiple devices. These converters may be an RS223 to Ethernet converter or RS232 to RS485 converter. DH-485 is ideal for connecting to a network bus with the use of an external converter such as a 1761-NET-AIC. This controller requires installation to an enclosure that provides adequate protection to the device as the 1762-L40BWA is an electronic device. The enclosure temperature must be maintained at temperature of +0°C to +55°C. Appropriate climate control devices is recommended to be installed in the enclosure such as a heater, fan or combination of both, depending on the installation location.