

Allen-Bradley 1746 1747 Series Service Manual

1762-L40AWAR

1. Description

The Allen-Bradley 1762-L40AWAR is a MicroLogix 1200 Programmable Logic Controller (PLC). It features Twenty-Four (24) sink / source inputs compatible for 24VDC signal voltage and. It also has Sixteen (16) Relay output. It has an embedded 8-pin mini-DIN communication port supporting RS232 (DF1) protocol and a programmer port. Technical specifications for 1762-L40AWAR

2. Specifications

Specification	Value
Manufacturer	Rockwell Automation
Part	Number/Catalog No. 1762-L40AWAR
Brand	Allen-Bradley
Power	Supply 120 to 240 Volts AC
No.	of Inputs Twenty-Four (24)
No.	of Outputs Sixteen (16)
Input	Circuit Type 120 Volts AC
Output	Circuit Type Relay
Relay	Contact Rating 24-125VDC; 120-240VAC
Mechanical	Cycles 20,000,000
Load	Current 10A, minimum
Communication	Ports One (1) 8-Pin mini-DIN serial port; One (1) Programming Port
Supported	Protocols DF1, DH-485, ASCII, MODBUS
Dimensions	Height: 90 mm 104 mm (with DIN latch open); Width: 160 mm; Depth: 87 mm
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
Input	Power 120-240V AC
Inputs	(24) 120V AC
Outputs	(16) Relay
UPC	1762-L40AWAR-001
The	1762-L40AWAR is a MicroLogix 1200 controller. This is an Allen-Bradly Programmable Logic Controller (PLC) that is designed with embedded input and output channels as well as commu

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Manufacturer Rockwell Automation

Part Number/Catalog No. 1762-L40AWAR

Brand Allen-Bradley

Power Supply 120 to 240 Volts AC

No. of Inputs Twenty-Four (24)

No. of Outputs Sixteen (16)

Input Circuit Type 120 Volts AC

Output Circuit Type Relay

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

Mechanical Cycles 20,000,000

Load Current 10A, minimum

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

Supported Protocols DF1, DH-485, ASCII, MODBUS

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Inputs (24) 120V AC

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UPC 10781180463867 Description

The 1762-L40AWAR is a MicroLogix 1200 controller. This is an Allen-Bradly Programmable Logic Controller (PLC) that is designed with embedded input and output channels as well as communication and programming port.

The 1762-L40AWAR feature One (1) Programming port, used exclusive for configuration and downloading of user programs. It also has One (1) communication port that may also be used as the device communication and programming interface. This port supports DH485 and DF1 communication protocols, both following serial RS232 standard. Both of the communication ports have 8-Pin mini DIN communication interface that only be used with an Allen-Bradly 1764-CLP1002 or custom fabricated.

The 1762-L40AWAR supports limited expansion. However, it has an embedded Twenty-Four (24) discrete inputs that supports sink / source wiring configuration and Sixteen (16) relay volt-free outputs. 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.

Aside from DH-485, DF1 Full and Half Duplex protocol support, the communication interface also supports Modbus Master / Slave and ASCII protocols. With MODBUS, direct integration to MODBUS capable devices such as Power Meters, Smart relays and switches may be accomplished without the need of a converter or gateway device. The ASCII protocol is used for interfacing barcode scanners which are typically used production and manufacturing industry.

This 1762-L40AWAR may be installed to enclosure that provide the adequate protection to the device, according to the installation area. This PLC must be operated within a temperature range of +0°C to +55°C. Climate control devices may also be installed to maintain the designed operating temperature.

The 1762-L40AWAR input specifications include OFF state voltage range of 0 to 5 Volts DC, with its ON state voltage ranging from 14 to 24 Volts DC for the inputs number 0 through 3. For its inputs numbered 4 or higher, the ON state voltage range lies between 10 and 24 Volts DC. The minimum amount of OFF state leakage that this unit produces is 1.5 mA. The 1762-L40AWAR unit can control loads up to 1440 VA.