

Allen-Bradley 1746 1747 Series Service Manual

1762-L40BWAR

1. Description

The Allen-Bradley 1762-L40BWAR is a MicroLogix 1200 Programmable Logic Controller (PLC). This controller has Twenty (20) standard 24VDC inputs, Four (4) Fast 24VDC inputs and Sixteen (16) relay, outputs. For communication, it has an embedded 8-pin mini-DIN communication port supporting DF1, DH-485, ASCII, MODBUS protocols and a programming port located on the left side of the

Technical specifications for 1762-L40BWAR

2. Specifications

Specification	Value
Manufacturer	Rockwell Automation
Power	Supply Usage 82 VA
Input	Circuit Type 24 VDC sink / source
Part	Number/Catalog No. 1762-L40BWAR
Brand	Allen-Bradley
Power	Supply 24VDC
No.	of Inputs Twenty (20) 24V dc; Four (4) fast 24V dc
No.	of Outputs Sixteen (16) relay
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; 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 inrush current 120V ac: 25A for 8 ms; 240V ac: 40A for 4 ms
Series	MicroLogix 1200
Product	Type Programmable Controller
Outputs	(16) Relay
Input	Power 120 to 240 Volts AC
Inputs	(20) 24 Volt DC and (4) Fast 24 Volt DC
Heat	Dissipation 22 Watts
Inrush	Current 25 Amps/8 milliseconds and 40 Amps/4 milliseconds
UPC	1078

3. Product Information

The Allen-Bradley 1762-L40BWAR is a MicroLogix 1200 Programmable Logic Controller (PLC). This controller has Twenty (20) standard 24VDC inputs, Four (4) Fast 24VDC inputs and Sixteen (16) relay outputs. For communication, it has an embedded 8-pin mini-DIN communication port supporting DF1, DH-485, ASCII, MODBUS protocols and a programming port located on the left side of the

Technical specifications for 1762-L40BWAR

Manufacturer Rockwell Automation

Power Supply Usage 82 VA

Input Circuit Type 24 VDC sink / source

Part Number/Catalog No. 1762-L40BWAR

Brand Allen-Bradley

Power Supply 24VDC

No. of Inputs Twenty (20) 24V dc; Four (4) fast 24V dc

No. of Outputs Sixteen (16) relay

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

Series MicroLogix 1200

Product Type Programmable Controller

Outputs (16) Relay

Input Power 120 to 240 Volts AC

Inputs (20) 24 Volt DC and (4) Fast 24 Volt DC

Heat Dissipation 22 Watts

Inrush Current 25 Amps/8 milliseconds and 40 Amps/4 milliseconds

UPC 10781180463874

UNSPSC 32151705 Description

www.oilautotech.com

The 1762-L40BWAR is a Programmable Logic Controller (PLC) from Allen-Bradley. This controller is a MicroLogix 1200 controller that is ideally used for implementing micro and small automation requirements.

The 1762-L40BWAR primarily features Two (2) communication interface, located on the controller's front panel and left side. Both communication ports are 8-pin mini-DIN circular connectors. The front panel port is the primary port that may be used for communication with programming workstations, Human Machine Interfaces (HMI) and Supervisory Control and Data Acquisition (SCADA) systems. The programming port is used only for controller programming, online edits and test functions. This ports functions simultaneously which helps prevents removal of existing connection to the primary port when controller communication is needed to be established at the same time.

The 1762-L40BWAR's embedded I/O channels include Twenty (20) standard 24VDC inputs, Four (4) Fast 24VDC inputs and Sixteen (16) relay outputs. The input channels are composed of Twenty (20) standard inputs located at input channels 4 and higher while fast inputs are located at channels 0-3.

The 1762-L40BWAR is power by an external voltage range of 100-240VAC at frequency of 47-63 Hz. It is designed to withstand inrush current ratings of 25A for 8 ms when supplied with 120VAC and 40A for 4 ms when powered by 240VAC supply. The controller's power supply usage is 82 VA with power supply output of 600 mA at 5VDC and 500 mA at 24VDC. This controller is capable of providing sensor power with maximum of 400 mA and 400 400 µF at 24VDC.

Twenty of these inputs are 24 Volts DC and the other 4 are 24 Volts fast DC. The 16 outputs are relay outputs. This module needs either 120 to 240 Volts AC to operate and the heat dissipation is 22 W. There are two amounts of inrush current. Those are 25 Amps for 8 milliseconds at 120 Volts AC and 40 Amps for 4 milliseconds at 240 Volts AC. The power supply usage of this module is 82 VA. The input circuit type of this module is 24 Volts sink or source DC power. The output circuit type of this module is relay type. The operating temperature of the 1762-L40BWAR is 0 to 55 degrees Celsius. Keep this module in an area that has a temperature -40 to 85 degrees Celsius for storage. The 1762-L40BWAR has several agency certifications including the UL 508, C-UL under CSA C22.2 no. 142, Class I, Div. 2, Groups A, B, C, D (UL 1604, C-UL under CSA C22.2 no. 213), and the CE/RCM/EAC for all applicable directives. For the 1762-L40BWAR, the COM of the sensor supply is also internally connected to chassis ground. The 24 Volts DC sensor power source should not be used to power output circuits.