

Allen-Bradley 1746 1747 Series Service Manual

1762-L40BXBR

1. Description

The Allen-Bradley 1762-L40BXBR is a MicroLogix 1200 Programmable Logic Controller (PLC). It features Twenty (20) 24VDC sink / source inputs, Four (4) fast 24VDC inputs, Eight (8) relay, Seven (7) 24VDC FET and One (1) High-speed 24VDC FET outputs. It has an embedded 8-pin mini-DIN communication port supporting RS232 (DF1) protocol. This controller is powered by an external 24VDC. Technical specifications for 1762-L40BXBR

2. Specifications

Specification	Value
Manufacturer	Rockwell Automation
Part	Number/Catalog No. 1762-L40BXBR
Brand	Allen-Bradley
Power	Supply 24VDC
No.	of Inputs (20) 24V dc; (4) fast 24V dc
No.	of Outputs (8) relay; (7) 24V dc FET; (1) high-speed 24V dc FET
Input	Circuit Type 24 VDC
Output	Circuit Type Relay; FET
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
Series	MicroLogix 1200
Product	Type Programmable Controller
Outputs	(8) Relay, (7) 24V DC FET, and (1) High-Speed 24V DC FET
Input	Power 24V DC
Inputs	(20) 24V DC and (4) Fast 24V DC
Inrush	Input Currents 150A at 30 seconds
Power	Consumption

3. Product Information

The Allen-Bradley 1762-L40BXBR is a MicroLogix 1200 Programmable Logic Controller (PLC). It features Twenty (20) 24VDC sink / source inputs, Four (4) fast 24VDC inputs, Eight (8) relay, Seven (7) 24VDC FET and One (1) High-speed 24VDC FET outputs. It has an embedded 8-pin mini-DIN communication port supporting RS232 (DF1) protocol. This controller is powered by an external 24VDC. Technical specifications for 1762-L40BXBR

Manufacturer Rockwell Automation

Part Number/Catalog No. 1762-L40BXBR

Brand Allen-Bradley

Power Supply 24VDC

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

No. of Outputs (8) relay; (7) 24V dc FET; (1) high-speed 24V dc FET

Input Circuit Type 24 VDC

Output Circuit Type Relay; FET

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

Series MicroLogix 1200

Product Type Programmable Controller

Outputs (8) Relay, (7) 24V DC FET, and (1) High-Speed 24V DC FET

Input Power 24V DC

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

Inrush Input Currents 150A at 30 seconds

Power Consumption 40 Watts

Output Currents 600mA at 5 Volts DC and 500mA at 24 Volts DC

Heat Dissipation 27.9 Watts

Operating Temperature 32 to 131 degrees Fahrenheit

Weight 1.1 kilograms

Operating Shock 30 G

Vibration 5G at 10 to 500 Hertz

UPC 10781180463881 Description

The Allen-Bradley 1762-L40BXBR is a Programmable Logic Controller (PLC) that is part of the MicroLogix 1200 controller family. This controller has a total of 40 I/O channels, specifically Twenty (20) 24VDC sink / source inputs, Four (4) fast 24VDC inputs, Eight (8) relay, Seven (7) 24VDC FET and One (1) High-speed 24VDC FET outputs. Additionally, it has Two (2) Trim Potentiometers that may be configured to modify internal and memory registers for simulation and control purposes.

The 1762-L40BXBR has a compact assembly that supports installation of up to Six (6) 1762 expansion I/O modules. This controller also comes with Two (2) communication ports particularly One (1) programming port and One (1) primary communication interface. The primary communication interface may be used for interfacing with Human Machine Interface (HMI), Supervisory and Control Data Acquisition (SCADA) systems, gateways, converters and Intelligent Electronic Devices (IED). It may be used in micro and small applications in a wide variety of industries.

The 1762-L40BXBR has an operating temperature requirement of +0°C to +55°C (+32°F to +131°F) ambient and storage temperature of -40°C to +85°C (-40°F to +185°F) ambient with relative humidity of 5% to 95% relative humidity (non-condensing). This controller supports panel or DIN rail mounting with operating vibration of 10 to 500 Hz, 5G, 0.030 in. max. peak-to-peak, 2 hours each axis and shock rating of 30G; 3 pulses each direction, each axis.

Its relay output can support a maximum load of 1440VA, with 8A maximum current per group common rating, and a 30A overall per points load at 150V. The relay output also has a minimum Turn-OFF/ON time of 10 milliseconds, with 20,000,000 cycles relay life and a 10mA minimum load per point. The 1762-L40BXBR has 75 Volt DC isolation voltage between the input group-to-backplane and between the FET output group-to-backplane, dielectrically-tested at 1200 Volts AC for 1 second, and it has IEC Class 2 reinforced insulation between relay output group and relay output group and FET output group isolation, tested at 1836 Volts AC for 1 second. The controller has an operational temperature range of 32 to 131 degrees Fahrenheit, at 5 to 95% non-condensing relative humidity, and a storage temperature of -40 to 185 degrees Fahrenheit. The 1762-L40BXBR is designed to withstand a maximum operating shock of 30G and a vibration of 5G at 10 to 500 Hertz. It weighs approximately 1.1 kilograms (2.4 pounds), with net dimensions of 90 x 160 x 87 millimeters, and it is UL, c-UL, and CE certified.

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