

Allen-Bradley 1756 Series Service Manual

1756-L83EXT

1. Description

The Allen-Bradley 1756-L83EXT ControlLogix-XT Controller is a manufactured as part of the ControlLogix-XT 5580 controllers. The device comes with 10 MB of user memory along with an optional 2 GB of optional non-volatile memory. Technical specifications for 1756-L83EXT

2. Specifications

Specification	Value
Brand	Allen-Bradley / Rockwell Automation
Series	ControlLogix
Part	Number 1756-L83EXT
Product	Type Controller
Product	Line ControlLogix-XT 5580
Controller	Tasks 32
Programs	per task 1000
Minimum	Current Draw 5 mA at 1.2V DC
Maximum	Current Draw 1.2 A at 5.1V DC
Shock	30 G
Vibration	2 G at 10 to 500 Hz
Thermal	Dissipation 21.2 BTU/hour Description
The	1756-L83EXT Controller is a ControlLogix-XT controller manufactured as part of the ControlLogix-XT 5580 series of controllers. This unit comes with 10 MB of standard user memory and with an optional non-volatile memory capacity of 2 GB. The current draw of this controller is 1.2 Amps at 5.1 Volts DC and 5.0 milliamps at 1.2 Volts DC. It features a power dissipation rating of 6.2 Watts, a thermal dissipation rating of 21.2 BTU per hour, and 50 Volts of continuous isolation voltage for the USB port to the backplane, the Basic Insulation Type USB port to the Ethernet port, and the Ethernet port to the backplane. It is tested at 1000 Volts AC

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Brand Allen-Bradley / Rockwell Automation

Series ControlLogix

Part Number 1756-L83EXT

Product Type Controller

Product Line ControlLogix-XT 5580

Controller Tasks 32

Programs per task 1000

Minimum Current Draw 5 mA at 1.2V DC

Maximum Current Draw 1.2 A at 5.1V DC

Shock 30 G

Vibration 2 G at 10 to 500 Hz

Thermal Dissipation 21.2 BTU/hour Description

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The Allen-Bradley 1756-L83EXT ControlLogix-XT 5580 Controller has a maximum surrounding air temperature rating of 70 degrees Celsius for the XT Chassis from Series C. The tolerable relative humidity range for the controller is from 5 to 95 percent, non-condensing, its maximum vibration rating is 2 g at 10 to 500 Hertz, and its maximum shock rating is 30 g both in operation and when powered down. The enclosure rating of this controller is the open-style rating and it uses wire category 3 for the USB ports and wire category 2 for the Ethernet ports. The 1756-L83EXT ControlLogix-XT 5580 Controller is listed and approved for compliance with the CSA, CE, RCM, Ex, IECEx, FM, cULus, KC, and EAC standards. It supports programming languages like the relay ladder logic, structured text, sequential function chart, and function block diagram programming languages.