

Allen-Bradley 1756 Series Service Manual

1756-L83EK

1. Description

Mfr. Part Number:

2. Specifications

Specification	Value
Manufacturer	Rockwell Automation
Brand	Allen-Bradley
Part	Number/Catalog No. 1756-L83EK
Series	ControlLogix
Module	Type Processor Module
Tasks	32
Communications	USB, Ethernet
Communication	Speed 12 MB-Second
Ethernet	Nodes 100 or 250
User	Memory 10 MB
Current	Draw (1.2 Volts DC) 5.0 Miliamperes
Current	Draw (5.1 Volts) 1.20 Miliamperes
Power	Dissipation 6.2 Watts
Thermal	Dissipation 21.2 BTU per hour
Isolation	Voltage 50 Volts Continuous
Enclosure	None (Open-Style) Description
The	Allen-Bradley 1756-L83EK processor module is a ControlLogix 5580 processor module with 10 MB of user memory. The letter "K" at the end of the order code of the processor module means that it is a special edition processor with internal components and panels that are coated with a special film to make them able to operate in environments where there are harsh vapors, big and abrasive mechanical particles, and temperature and relative humidity levels that are constantly high. The 1756-L83EK ControlLogix 5580 pr

3. Product Information

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Mfr. Part Number:

1756-L83EK

Manufacturer: Allen-Bradley / Rockwell Automation

Description: Allen-Bradley 1756-L83EK ControlLogix Logix5580 Processor, 10MB, USB/EtherNet

Full Description: Allen Bradley 1756-L83EK ControlLogix5580 Logix 5580 Controller, 10MB User Memory, USB Port, 1GB Ethernet Port, 100 EtherNet/IP Devices, 4 Character Alpha/Numeric Display, Supported in Studio 5000 Automation Engineering and Design Environment, Conformally Coated Allen Bradley ControlLogix Processor Module with 10 MB User Memory and USB, Ethernet Communications Technical specifications for 1756-L83EK

Manufacturer Rockwell Automation

Brand Allen-Bradley

Part Number/Catalog No. 1756-L83EK

Series ControlLogix

Module Type Processor Module

Tasks 32

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Communication Speed 12 MB-Second

Ethernet Nodes 100 or 250

User Memory 10 MB

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Isolation Voltage 50 Volts Continuous

Enclosure None (Open-Style) Description

The Allen-Bradley 1756-L83EK processor module is a ControlLogix 5580 processor module with 10 MB of user memory. The letter "K" at the end of the order code of the processor module means that it is a special edition processor with internal components and panels that are coated with a special film to make them able to operate in environments where there are harsh vapors, big and abrasive mechanical particles, and temperature and relative humidity levels that are constantly high. The 1756-L83EK ControlLogix 5580 processor module is a scalable controller solution that is ready to accept many inputs and outputs in the same rack. It can be positioned into any place on the ControlLogix I/O chassis. This controller receives data from I/O modules over the backplane or over its Ethernet/IP port that can reach to distributed I/O systems. The capacity of the controller for Ethernet points is 250. This controller also has 1 USB 2.0 port available.

The Allen-Bradley 1756-L83EK processor module can cover 32 tasks with 100 programs per task. For applications in need of integrated motion, the 1756-L83EK processor module has solutions for use with the EtherNet/IP network, SERCOS interface, and analog options like LDT (Linear Displacement Transducer), encoder input, and SSI (Serial Synchronous Input). Programs entered by users that are made to control machine or system operation are stored in the non-volatile memory. The product has a high level of immunity to electrical noise, impact, and vibration. This processor module can operate at temperatures lower than 60 degrees Celsius. When the device operates normally, the "OK" and "RUN" LED indicators glow green on the front of the module.

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