

Allen-Bradley 1746 1747 Series Service Manual

1746-OV16

1. Description

The Allen-Bradley 1746-OV16 is a SLC 500 discrete sinking output module. This module has Sixteen (16) channels that provides a nominal output voltage of 24VDC and 10-50VDC output voltage range. It has One (1) group of 16 channels with backplane current draw of 0.270 A. It has a continuous output current per point of 0.50 A at 30 °C (86 °F) and 0.25 A at 60 °C (140 °F). Technical specifications for 1746-OV16

2. Specifications

Specification	Value
Manufacturer	Rockwell Automation
Module	Type Discrete output module
Series	SLC 500
Part	Number/Catalog No. 1746-OV16
Brand	Allen-Bradley
Nom	Input Voltage 24VDC
Input	Voltage Range 10-50 VDC
Wiring	configuration Sink wiring configuration
Backplane	current consumption 0.270 A
Signal	delay, max. resistive load On = 0.1 ms; Off = 1.0 ms
Continuous	current per point 0.50 A at 30 °C (86 °F); 0.25 A at 60 °C (140 °F)
Continuous	current per module 8.0 A at 30 °C (86 °F); 4.0 A at 60 °C (140 °F)
On-state	voltage drop, max 1.2V at 0.5 A
Surge	current per point 3.0 A for 10 ms
Voltage	Range 10-50 Volts DC Sink
Outputs	16
Current/Output	0.5 or 0.25 amps
Current/Module	8 or 4 amps
Backplane	Current (5 Volts) 270 milliamps
Applications	High Current
Step	Response 60 milliseconds in, 2.5 milliseconds out Description
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Brand Allen-Bradley

Nom Input Voltage 24VDC

Input Voltage Range 10-50 VDC

Wiring configuration Sink wiring configuration

Backplane current consumption 0.270 A

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Continuous current per point 0.50 A at 30 °C (86 °F); 0.25 A at 60 °C (140 °F)

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On-state voltage drop, max 1.2V at 0.5 A

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Outputs 16

Current/Output 0.5 or 0.25 amps

Current/Module 8 or 4 amps

Backplane Current (5 Volts) 270 milliamps

Applications High Current

Step Response 60 milliseconds in, 2.5 milliseconds out Description

The 1746-OV16 is an Allen-Bradley manufacture discrete output module. This module is provided with Sixteen (16) output channels in One (1) channel group. It is a sinking output module that delivers 10-50VDC output voltage range with minimum output of 24VDC. This module is ideally used to energize DC operated electrical loads such as relay coils, indicating and sounding devices.

The 1746-OV16 has a backplane current consumption of 0.270 Amperes at 5VDC with OFF-state leakage current of 1 mA and minimum load current of 1 mA as well. Each channel of this output module has a signal delay of 0.1 ms for ON to OFF transition and 1.0 ms for OFF to ON transition. The module's continuous output current per point is 0.50 A at 30 °C (86 °F) and 0.25 A at 60 °C (140 °F) while the continuous output current per module is 8.0 A at 30 °C (86 °F) and 4.0 A at 60 °C (140 °F). This module exhibits a maximum On-state voltage drop 1.2V at 0.5 A.

The 1746-OV16 has a Surge current per point of 3.0 A for 10 ms that is repeatable once every 1 second 30 °C (86 °F) and 2 seconds repeatability at 60 °C (140 °F).

The 1746-OV16 is installed to an SLC 500 chassis. It is a single slot-width module that directly attached to a Modular style SLC 500 hardware. It comes with a removable terminal block that is pre-installed to the module. This terminal block may be removed from the module to implement easier and faster wiring activity.

It is a 16 channel output module that is compatible with the SLC 500 system. It has a heat dissipation per point of 0.388W and a total heat dissipation of 7.6W. The 1746-OV16 has a removable terminal block which allows you to connect or modify the wiring on the module easily. It has an operating voltage that ranges from 10-50V DC. It has a higher backplane current consumption (0.27 A) than the 1746-OV8 and the 1746-OVP16 modules. The 1746-OV16 has a maximum signal delay of 0.1ms in the On-state and of 1ms in the Off-state. It has a continuous current per output and per module of 0.5A and 8A at 30°C and 0.25A and 4A at 60°C, respectively. The 1746-OV16 has a maximum Off-state leakage of 1 mA and a maximum On-state voltage drop of 1.2V at 0.5A and 3A for 10ms maximum surge current per point.

Revisions

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