

# Allen-Bradley 1746 1747 Series Service Manual

1746-OBP16

## 1. Description

The Allen-Bradley 1746-OBP16 is a SLC 500 Digital DC Output Module. This Digital DC Output Module has Sixteen (16) channels with an output Voltage Range of 20.4-26.4 Volts DC in Sourcing configuration. It may be installed in a SLC 500 fixed or modular style hardware. Technical specifications for 1746-OBP16

## 2. Specifications

| Specification  | Value                                                                                                                                                                    |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Manufacturer   | Rockwell Automation                                                                                                                                                      |
| Brand          | Allen-Bradley                                                                                                                                                            |
| Part           | Number/Catalog No. 1746-OBP16                                                                                                                                            |
| Series         | SLC 500                                                                                                                                                                  |
| Module         | Type Digital DC Output Module                                                                                                                                            |
| Outputs        | 16                                                                                                                                                                       |
| Voltage        | Range 20.4-26.4 Volts DC Source                                                                                                                                          |
| No.            | of Outputs Sixteen (16)                                                                                                                                                  |
| Current/Output | 1.5 or 1 amps                                                                                                                                                            |
| Current/Module | 6.4 amps                                                                                                                                                                 |
| Backplane      | Current (5 Volts) 250 milliamps                                                                                                                                          |
| Applications   | High Current                                                                                                                                                             |
| Fuse           | Protection Yes                                                                                                                                                           |
| Step           | Response 60 milliseconds in, 2.5 milliseconds out                                                                                                                        |
| Compatible     | Fuse Littelfuse #322010,10A or #332010,10A                                                                                                                               |
| UPC            | 10662468166017                                                                                                                                                           |
| Fuse           | kit part number 1746-F8                                                                                                                                                  |
| Recommended    | signal wires Max 2 mm. sq. (14 AWG) Description                                                                                                                          |
| The            | 1746-OBP16 is a Sixteen (16) channel Discrete Output module from the SLC 500 product family. It provides 24VDC output with integrated fuse for short-circuit protection. |

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Brand Allen-Bradley

Part Number/Catalog No. 1746-OBP16

Series SLC 500

Module Type Digital DC Output Module

Outputs 16

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No. of Outputs Sixteen (16)

Current/Output 1.5 or 1 amps

Current/Module 6.4 amps

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Fuse kit part number 1746-F8

Recommended signal wires Max 2 mm. sq. (14 AWG) Description

The 1746-OBP16 is a Sixteen (16) channel Discrete Output module from the SLC 500 product family. It provides 24VDC output with integrated fuse for short-circuit protection.

This module occupies single slot of an SLC 500 chassis. It is compatible with fixed or modular style hardware.

The 1746-OB32 features an integrated fuse that protects the module from channel short-circuit and overload current. The E-FEUSE LED that is provided in the front panel of the module will illuminate to indicate presence of such condition. Other channels will continue to operate as the electronic protection are individual for each channel.

It is considered a channel shutdown when the error has been detected. To allow the channel to recover from the fault condition, the SLC 500 system power must be removed and the actual error must be corrected. Once the actual source of error has been corrected, the system power may be applied, and the module automatically reset and resumes providing control output. This automatic fault recovery must be taken into consideration as part of the system's fail-safe operating conditions.

Compatible replacement fuse for the integrated electronic fuse are Littelfuse #322010,10A or #332010,10A. This fuse component is to maintain UL/CSA rating. Allen-Bradley's fuse catalog number is 1746-F8 which is comprised of Five (5) fuse per kit. This fuse may be easily replaced however, it requires pulling out of module from the chassis.