

Allen-Bradley 1756 Series Service Manual

1756-OB16IEFS

1. Description

Mfr. Part Number:

2. Specifications

Specification	Value
Manufacturer	Rockwell Automation
Brand	Allen-Bradley
Part	Number/Catalog No. 1756-OB16IEFS
Series	ControlLogix
Module	Type DC Output Module
Circuit	Type DC
Input	Voltage 10-30 Volts
Operating	Voltage Range 10-30 Volts DC
Maximum	Output Current Rating-Point 2 Amps at 30 degrees Celsius, 1 Amp at 60 degrees Celsius
Maximum	Output Current Rating-Module 8 Amps at 30 degrees Celsius and 4 Amps at 60 degrees Celsius
Power	Dissipation (Max) 3.6 Watts at 60 Celsius
Backplane	Current at 5 Volts 350 milliamps
Backplane	Current at 24 Volts 3 milliamps
Removeable	Terminal Block(s) 1756-TBCH, 1756-TBS6H
Isolation	Voltage 50 Volts Continuous
Enclosure	None Description
The	Allen-Bradley 1756-OB16IEFS is a ControlLogix DC digital module that is electronically protected and has fast output. It has 16 scheduled, high-speed, individually-isolated, electronically-fused outputs. This is the only module that can function in a remote chassis with the Motion Axis Output Cam (MAOC) instruction. It is also the

3. Product Information

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1756-OB16IEFS

Manufacturer: Allen-Bradley / Rockwell Automation

Description: Allen-Bradley 1756-OB16IEFS ControlLogix Scheduled Fast Isol. Output 10-30V Cam

Full Description: Allen-Bradley 1756-OB16IEFS ControlLogix Fast Digital Output Module for Position-based Output Control with the MAOC Instruction, (16) 24V DC Digital Scheduled Outputs (10-30V DC Range), Isolated, E-Fuse, 250V Iso, 36-Pin Allen Bradley ControlLogix DC Output Module with DC Circuit Type Technical specifications for 1756-OB16IEFS

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Circuit Type DC

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Operating Voltage Range 10-30 Volts DC

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Backplane Current at 24 Volts 3 milliamps

Removeable Terminal Block(s) 1756-TBCH, 1756-TBS6H

Isolation Voltage 50 Volts Continuous

Enclosure None Description

The Allen-Bradley 1756-OB16IEFS is a ControlLogix DC digital module that is electronically protected and has fast output. It has 16 scheduled, high-speed, individually-isolated, electronically-fused outputs. This is the only module that can function in a remote chassis with the Motion Axis Output Cam (MAOC) instruction. It is also the only one that can receive output data while in this function. It is a CIP Sync slave-only device that uses CIP Sync for scheduling and timestamps. It can only be installed on a chassis when it has a removable terminal block housing, or RTB, which can either be the 1756-TBCH and the 1756-TBS6H.

The module also provides time-scheduled output control for outputs 0 to 15 in CIP Sync Time. It also enables schedules at a minimum of 5- μ s interval.

The 1756-OB16IEFS module has an inrush pilot duty of 4 A. Its operating voltage range is 10 to 30 V DC and its voltage category is 12/24 V DC sink/source. Its current draw at 5.1 V is 320 mA and at 24 V, it is 3 mA. This module has a total backplane power of 1.7 W, a maximum off-state leakage current of < 0.1 mA per point, a surge current of 4 A for 10 ms per point, which can repeat every 2 s, and a maximum on-state voltage drop of 0.4 V DC at 2 A and 0.2 V DC at 1 A. Its maximum current per point is 2 A at 45 Degrees Celsius (4 channels max) and 1 A at 60 Degrees Celsius, while its maximum current per module is 16 A at 60 Degrees Celsius (maximum of 1 A per channel) and 8 A at 45 Degrees Celsius (maximum of 2 A per channel). It has a minimum load current of 1 mA per point and a continuous isolation voltage of 250V.

It has an unscheduled output delay time of a nominal 14 μ s and a maximum of 23 μ s from off to on, and vice versa. The module has a Pulse Width Modulation (PWM) cycle time of 1 ms min/1 hour max, a PWM on time of 200 μ s min/1 hour max, and a PWM on-time accuracy of +/- 20 μ s.

The following can be configured in the module: states in Fault Mode (Hold Last State, On, or Off), duration of Fault Mode (1, 2, 5, 10 s, Forever), Final State after Fault Mode duration (On or Off), and states in Program mode (Hold Last State, On, or Off). All have the "Off" option by default, except for the Fault Mode duration where the default is "Forever."

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