

Allen-Bradley 1756 Series Service Manual

1756-OH8I

1. Description

Allen Bradley ControlLogix Isolated Output Module with 8-Point Individually Isolated Outputs Technical specifications for 1756-OH8I

2. Specifications

Specification	Value
Manufacturer	Rockwell Automation
Brand	Allen-Bradley
Part	Number/Catalog No. 1756-OH8I
Series	ControlLogix
Module	Type Isolated Output Module
Outputs	8-Point Individually Isolated
Voltage	120 Volts DC Sink-Source
Operating	Voltage Range 90-146 Volts DC
Maximum	Output Current Rating-Point 2 Amps at 60 Celsius
Maximum	Output Current Rating-Module 8 Amps at 60 Celsius
Power	Dissipation (Max) 3.3 Watts at 60 Celsius
Backplane	Current at 5 Volts 210 milliamps
Removeable	Terminal Block(s) 1756-TBCH, 1756-TBS6H
Isolation	Voltage 50 Volts Continuous
Enclosure	None
UPC	10612598171443 Description
The	1756-OH8I ControlLogix DC Digital Output Module by Allen-Bradley is a digital output module with 8 isolated 120V DC sinking/sourcing outputs located on the chassis of the ControlLogix devices. It has a voltage range of 90-146V DC and a maximum output signal delay time of 2ms for both ON to OFF and OFF to ON. The 1756-OH8I has a back-plane draw current of 2mA at 24V and 210mA at 5.1V with an overall

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The 1756-OH8I ControlLogix DC Digital Output Module by Allen-Bradley is a digital output module with 8 isolated 120V DC sinking/sourcing outputs located on the chassis of the ControlLogix devices. It has a voltage range of 90-146V DC and a maximum output signal delay time of 2ms for both ON to OFF and OFF to ON. The 1756-OH8I has a back-plane draw current of 2mA at 24V and 210mA at 5.1V with an overall backplane power of 1.1W. It dissipates 3.3W (11.25 BTU/hr) of heat at 60 °C (140 °F) when operational and it has an OFF-state leakage current of 1mA per point. In ON-state, the 1756-OH8I has a drop voltage of 2V DC at 2A and the maximum current retained on each output point is 2A. The minimum current load on each point is 2mA and with a surge of 4A on each point, the maximum current the 1756-OH8I module can sustain is 8A at 60 °C (140 °F). The isolation voltage between its outputs-to-backplane and output-to-output is 250V with the basic insulation type tested at 1350V AC for 2s. The 1756-OH8I has a factory-designated T4A North America temperature code and it comes with an open-style enclosure. It has a 0-60 °C (32-140 °F) operating temperature range at 5-95% relative humidity environment. The 1756-OH8I is designed to sustain an operational vibration of 2G at 10-500Hz and a shock rating of up to 20G. The 1756-OH8I is a high-performance DC digital output that belongs to the ControlLogix series. Manufactured by Allen-Bradley, this module features 8 isolated 120 Volts DC sinking or sourcing outputs that are available on its chassis. Its voltage rating ranges from 90 to 146 Volts DC. This module's output signal delay time is 2 milliseconds while its backplane draws current at 24 Volts is 2 milliamps (mA) and 210 milliamps at 5.1 Volts. Its overall backplane power is 1.1 Watts. When operational, the 1756-OH8I dissipates 3.3 Watts of heat at 60 degrees Celsius (140 degrees Fahrenheit). Besides, the module features an OFF-state leakage current rating of 1 milliamps per point.

When operational, the 1756-OH8I possesses a drop voltage of 2 Volts DC at 2 Amps and the peak current retained on every output terminal is 2 Amps. The maximum amount of current that the 1756-OH8I can sustain is 8 Amps at 60 degrees Celsius, while the minimum current load at each point is 2 mA with a surge of 4 Amps. The module's isolation voltage between the backplane and the outputs is about 250 Volts with the standard insulation tested at 1350 Volts AC for 2 seconds. In addition, the 1756-OH8I has a T4A (North America) temperature code and it is enclosed in an open-type chassis. Its operating temperature varies from 0 to 60 degrees Celsius at an environment featuring 5 to 95% relative humidity. The 1756-OH8I is uniquely designed to withstand a maximum operational shock rating of 20G and a vibration of 2G at 10 to 500 Hertz. The 1756-OH8I is highly resistant to shock and it can sustain an operational vibration of 2G. Plus, the module offers excellent performance.

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