

Allen-Bradley 1756 Series Service Manual

1756-OA8D

1. Description

Mfr. Part Number:

2. Specifications

Specification	Value
Manufacturer	Rockwell Automation
Brand	Allen-Bradley
Part	Number/Catalog No. 1756-OA8D
Series	ControlLogix
Module	Type Diagnostic AC Output Module
Outputs	8 Diagnostic
Voltage	120 Volts AC
Operating	Voltage Range 74-132 Volts AC
Maximum	Output Current Rating-Point 1 Amp at 30 degrees Celsius, 0.5 Amps 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) 5.3 Watts at 60 degrees Celsius
Backplane	Current at 5 Volts 175 milliamps
Backplane	Current at 24 Volts 250 milliamps
Removeable	Terminal Block(s) 1756-TBNH, 1756-TBSH
Isolation	Voltage 50 Volts Continuous
Enclosure	None
UPC	10612598164520 Description
The	1756-OA8D ControlLogix Output Module by Allen-Bradley is an 8-point output ControlLogix Diagnostic module mounted on any slot of the 1756 ControlLogix Chassis. Like most modules in the series, it has back-plane ratings of 175mA at 5.1V DC and 250mA at 24V DC, with a gross backplane rating of 6.

3. Product Information

Mfr. Part Number:

1756-OA8D

Manufacturer: Allen-Bradley / Rockwell Automation

Description: Allen-Bradley 1756-OA8D ControlLogix Diagnostic AC Output Module, 8-Points

Full Description: Allen-Bradley 1756-OA8D ControlLogix Diagnostic Digital AC Output Module, 74-132V AC, 8 Points electronically fused, (20 Pin) Allen Bradley ControlLogix Diagnostic AC Output Module with 8 Diagnostic Outputs Technical specifications for 1756-OA8D

Manufacturer Rockwell Automation

Brand Allen-Bradley

Part Number/Catalog No. 1756-OA8D

Series ControlLogix

Module Type Diagnostic AC Output Module

Outputs 8 Diagnostic

Voltage 120 Volts AC

Operating Voltage Range 74-132 Volts AC

Maximum Output Current Rating-Point 1 Amp at 30 degrees Celsius, 0.5 Amps at 60 degrees Celsius

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Backplane Current at 5 Volts 175 milliamps

Backplane Current at 24 Volts 250 milliamps

Removeable Terminal Block(s) 1756-TBNH, 1756-TBSH

Isolation Voltage 50 Volts Continuous

Enclosure None

UPC 10612598164520 Description

The 1756-OA8D ControlLogix Output Module by Allen-Bradley is an 8-point output ControlLogix Diagnostic module mounted on any slot of the 1756 ControlLogix Chassis. Like most modules in the series, it has back-plane ratings of 175mA at 5.1V DC and 250mA at 24V DC, with a gross backplane rating of 6.9W. Its output voltage ranges between 74 and 132V AC at 47-63Hz and it has a maximum ON/OFF and OFF/ON delay time of 9.3ms at 50Hz and one of 11ms at 50Hz. The 1756-OA8D has a draw current of 175mA at 5.1V and 250mA at 24V and a power dissipation of 53W and a thermal dissipation of 18.0 BTU/hr. In its OFF state, it has a leakage current of 3mA per point and a maximum drop voltage of 3.0V at 1.0A. The current rating on each output point is 1A at 30 0C which linearly de-rates at a temperature higher than this and the net current on the overall module is 8A also at 30 0C and it will also linearly de-rate at any higher temperature value. The 1756-OA8D module has a maximum surge current of 8A for 43ms per point, recurring every 2s at 30 °C, and the minimum load on each output point is 10mA. It has an isolation voltage of 125V (Continuous) with basic (insulation Type) tested at 1200V AC for 2s between output group-to-group and outputs-to-backplane but there is no isolation between individual group outputs. The 1756-OA8D has a single slot width and the keying on the Removable Terminal Block (RTB) is at the user's discretion. It is designated the T4A code, and has an optimal temperature range of 0-60 °C (32-140 °F), at 5-95% non-condensing relative humidity, and is enclosed in an open-style rated enclosure. It weighs approximately 1Kg (2.25lb).