

Allen-Bradley 1756 Series Service Manual

1756-ON8

1. Description

Allen Bradley ControlLogix Output Module with 8-Point Outputs Technical specifications for 1756-ON8

2. Specifications

Specification	Value
Manufacturer	Rockwell Automation
Brand	Allen-Bradley
Part	Number/Catalog No. 1756-ON8
Series	ControlLogix
Module	Type Output Module
Outputs	8-Point
Voltage	240 Volts AC
Operating	Voltage Range 10-30 Volts AC
Maximum	Output Current Rating-Point 2 Amps at 60 degrees Celsius
Maximum	Output Current Rating-Module 5 Amps at 30 degrees Celsius, 4 Amps at 60 degrees Celsius
Power	Dissipation (Max) 5.1 Watts at 60 degrees Celsius
Backplane	Current at 5 Volts 200 milliamps
Removeable	Terminal Block(s) 1756-TBNH, 1756-TBSH
Isolation	Voltage 50 Volts Continuous
Enclosure	None
UPC	10612598171450 Description
The	Allen-Bradley 1756-ON8 ControlLogix® digital I/O module is an input and output module that provides On / Off detection and activation. The 1756-ON8 uses a network of producer and consumer models and it can generate information when needed while providing additional system functionality. The Allen-Bradley 1756-ON8 has 8 outputs and 4 points per group. The voltage category of this module is 24

3. Product Information

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Series ControlLogix

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The Allen-Bradley 1756-ON8 ControlLogix® digital I/O module is an input and output module that provides On / Off detection and activation. The 1756-ON8 uses a network of producer and consumer models and it can generate information when needed while providing additional system functionality. The Allen-Bradley 1756-ON8 has 8 outputs and 4 points per group. The voltage category of this module is 24V AC with an operating frequency of 50-60 Hz. The operating voltage of this module ranges from 10-30V AC with a current of > 50 mA 47-63Hz. This module has total backplane power of 1.07 W and its maximum power dissipation is 5.1 W at 60 °C (140 °F). The thermal dissipation of this module is 17.39 BTU/hr. Do not disconnect this equipment unless the power has been shut off. Secure the mating external connection with the 1756-ON8 by using screws, shear hooks, threaded connectors, or any other means provided with this product. The Allen-Bradley 1756-ON8 has a relative humidity of 5-95% noncondensing. The operating temperature and the nonoperating temperature ranges of this module are 0-60 °C (32-140 °F) and -40-85 °C (-40-185 °F) respectively and the operating shock and the nonoperating shock of this module are 30 g and 50 g respectively. This module has an open-type enclosure. It should be installed in enclosures designed for certain environmental conditions. The 1756-ON8 is a ControlLogix digital output module manufactured by Allen-Bradley. It has ratings of 24 Volts AC, 50 to 60 Hertz, 8-point output, 10 to 30 Volts AC operating voltage, 9.3 milliseconds at 60 Hertz or 11 milliseconds at 50 Hertz of Off-to-On and On-to-Off delay time, respectively, 200 milliamps of current draw at 5.1 Volts, 2 milliamps of current draw at 24 volts, and 1.07 watts of backplane power. This module weighs 0.363 kilograms and it can communicate output commands in a ControlLogix system. It provides On/Off acuation and detection for a wide range of output devices like motor starters in an industrial environment.

Note that the 1756-ON8 output module is only a component of a ControlLogix system which also consists of controllers, removable terminal blocks (RTB), and adapters. Shutting off the power supply to the ControlLogix system in order to remove or install the module is not necessary because such operations would not disrupt other processes in the system. The integral status indicators of the Allen-Bradley 1756-ON8 digital output module make it easy to monitor the I/O status and module health in the ControlLogix system and it supports direct and rack-optimized connections. Note that exceeding the surge and power rating while applying the 1756-ON8 digital output module to devices in its network can result in damage.