Allen-Bradley 1746 1747 Series Service Manual

1746-OX8

1. Description

The Allen-Bradley 1746-OX8 is a SLC 500 Digital Contact Output Module. This Digital Contact Output Module has an Operating Voltage of 5-265 Volt AC or 5-125 Volts DC and 8 N.O. Relay Contact Outputs. It is intended for Individually Isolated, High-Current Relay Applications. Technical specifications for 1746-OX8

2. Specifications

Specification	Value
Manufacturer	**Rockwell Automation**
Brand	**Allen-Bradley**
Part	**Number/Catalog No. 1746-OX8**
Series	**SLC 500**
Module	**Type Digital Contact Output Module**
Operating	**Voltage 5-265 Volt AC or 5-125 Volts DC**
Outputs	**8**
Output	**Types N.O. Relay Contact**
Current/Output	**(120 VAC) 3 amps**
Current/Output	**(24VDC) 1.2 amps**
Backplane	**Current 85-90 milliamps**
Applications	**Individually Isolated, High-Current Relay**
Step	**Response 60 milliseconds in, 2.5 milliseconds out**
Operating	**shock 10 g**
UPC	**10662073896620 Description**
The	**Allen-Bradley 1746-OX8 is an SLC 500 digital I/O module. This output module comes with 8 high-current relay contact outputs that are individually-isolated. It is also an N.O. relay output module with relay contact ratings with a maximum of 30 A each for make and break at 120 Volts AC and a maximum of 15 A make and 1.5 A break at 240V AC. At a continuous 5 A for both AC voltages, the module has a make of 3600 VA and a break of 360 VA. For DC voltages, the maximum make and break are 0.22 A each at**

3. Product Information

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Brand Allen-Bradley

Part Number/Catalog No. 1746-OX8

Series SLC 500

Module Type Digital Contact Output Module

Operating Voltage 5-265 Volt AC or 5-125 Volts DC

Outputs 8

Output Types N.O. Relay Contact

Current/Output (120 VAC) 3 amps

Current/Output (24VDC) 1.2 amps

Backplane Current 85-90 milliamps

Applications Individually Isolated, High-Current Relay

Step Response 60 milliseconds in, 2.5 milliseconds out

Operating shock 10 g

UPC 10662073896620 Description

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It has an output current of 3 A at 120 Volt AC and an output current of 1.2 A at 24 Volt DC. The operating voltage of this module ranges from 5-125V AC and 5 to 265 Volts DC. The backplane current consumption at 5 Volts DC is 0.085 A and 0.090 A at 24 Volt DC. It also has a maximum resistive load signal delay of 10 milliseconds for both OFF and ON. This module's minimum load current is 10 mA at 5 Volts DC and its maximum off-state leakage is 0 mA. Note that the continuous current per module should be limited to 1440 VA. This module has a NEMA standard ICS 2 to 230 noise immunity and electro-optical isolation of 1500 Volts between the I/O terminals and control logic. The operating temperature range of this module, particularly for the air surrounding the system, is from 0 to 60 degrees Celsius and the storage temperature ranges from -40 to 85 degrees Celsius. Its operating vibration has a displacement of 0.015 inches peak at 5 to 57 Hertz and an acceleration of 2.5 g at 57-2000 Hertz. The operating shock of this module is 10 g. The 1746-OX8 module has a heat dissipation of 0.825 watts per point, a minimum dissipation of 2.590 Watts, and a total dissipation of 8.60 Watts.