

Allen-Bradley 1756 Series Service Manual

1756-OA8E

1. Description

Mfr. Part Number:

2. Specifications

Specification	Value
Manufacturer	Rockwell Automation
Brand	Allen-Bradley
Part	Number/Catalog No. 1756-OA8E
Manufacturer	Rockwell Automation
Series	ControlLogix
Part	Number/Catalog No.
Module	Type Electronic Fused AC Output Module
1756-OA8E	Series
Outputs	8-Point Electronic Fusing
ControlLogix	Module Type
Voltage	120 Volts AC
Digital	AC Sourcing Output No. of outputs
Operating	Voltage Range 74-132 Volts AC
Eight	(8) Electronically-fused, output channels Output Voltage, nominal
Maximum	Output Current Rating-Point 2 Amps at 60 degrees Celsius
120	VAC Output Voltage range
Maximum	Output Current Rating-Module 8 Amps at 30 degrees Celsius and 4 Amps at 60 degrees Celsius
74-132	VAC, 47-63 Hz Output Current per channel, nom.
Power	Dissipation (Max) 5.5 Watts at 60 degrees Celsius
2	A @ 60 degrees C (140 degrees F) Output Current per group, max.
Backplane	Current at 5 Volts 200 milliamps
4	A @ 30 degrees C (86 degrees F) linear derating; 2 A @ 60 degrees C (140 degrees F) linear derating Output Current per module

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3. Product Information

Mfr. Part Number:

1756-OA8E

Manufacturer: Allen-Bradley / Rockwell Automation

Description: Allen-Bradley 1756-OA8E ControlLogix AC Fused Output Module 74-132V AC 8-Port

Full Description: Allen-Bradley 1756-OA8E ControlLogix Digital AC Electronically Fused Output Module, 74-132V AC, 8-Point 20-Pin, 2A per point The Allen-Bradley 1756-OA8E is a Discrete output module from the ControlLogix product family. This module is a single slot, discrete output module that features Eight (8) electronically fused, 120 VAC output channels. It has Two (2) groups of Four (4) outputs each with output voltage range of 74-132VAC and output current of 2 A @ 60 degrees C (140 degrees F); 4 A @ 30 degrees C (86 degrees F) Technical specifications for 1756-OA8E

Manufacturer Rockwell Automation

Brand Allen-Bradley

Part Number/Catalog No. 1756-OA8E

Manufacturer Rockwell Automation

Series ControlLogix

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Module Type Electronic Fused AC Output Module

1756-OA8E Series

Outputs 8-Point Electronic Fusing

ControlLogix Module Type

Voltage 120 Volts AC

Digital AC Sourcing Output No. of outputs

Operating Voltage Range 74-132 Volts AC

Eight (8) Electronically-fused, output channels Output Voltage, nominal

Maximum Output Current Rating-Point 2 Amps at 60 degrees Celsius

120 VAC Output Voltage range

Maximum Output Current Rating-Module 8 Amps at 30 degrees Celsius and 4 Amps at 60 degrees Celsius

74-132 VAC, 47-63 Hz Output Current per channel, nom.

Power Dissipation (Max) 5.5 Watts at 60 degrees Celsius

2 A @ 60 degrees C (140 degrees F) Output Current per group, max.

Backplane Current at 5 Volts 200 milliamps

4 A @ 30 degrees C (86 degrees F) linear derating; 2 A @ 60 degrees C (140 degrees F) linear derating Output Current per module, max.

Backplane Current at 24 Volts 250 milliamps

8 A @ 30 degrees C (86 degrees F) linear derating; 4 A @ 60 degrees C (140 degrees F) linear derating Backplane Current, 5.1VDC

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

200 mA Backplane Current, 24VDC

Isolation Voltage 50 Volts Continuous

250 mA Power Dissipation

Enclosure None

5.5 W @ 60 degrees C (140 degrees F) Output Signal delay

UPC 10612598171399

9.3 ms @ 60 Hz; 11 ms @ 50 Hz Enclosure type rating

None (open-style) Removable Terminal Block Description

The Allen-Bradley 1756-OA8E is a ControlLogix discrete output module. This module comes with Eight (8) output channels that delivers a nominal output voltage of 120 VAC with operating range of 74-132 VAC, 47-63 Hz. This module has Two (2) output groups of Four (4) channels each with output current of 2 A @ 60 degrees C (140 degrees F) and output current per group of 2 A @ 60 degrees C (140 degrees F); 4 A @ 30 degrees C (86 degrees F) / 2 A @ 60 degrees C (140 degrees F) with linear derating and output current per module of 8 A @ 30 degrees C (86 degrees F) / 4 A @ 60 degrees C (140 degrees F) with linear derating. The 1756-OA8E has an output delay time of 9.3 ms @ 60 Hz or 11 ms @ 50 Hz for Off to On and On to Off output transitions. This module may be installed to any available slot of the 1756 chassis with a current draw of 200 mA @ 5.1 VDC and 250 mA @ 24 VDC and total backplane power requirement of 7.02 Watts. It has a maximum power dissipation of 5.5 Watts @ degrees C (140 degrees F) and Thermal dissipation of 18.76 BTU/hr. There is no limit to the number of instances of the 1756-OA8E. Instances of this module may be installed to any available slots of the 1756 chassis. It is also provided with individual channel protection as each channel of the module comes with electronic fusing. For connection or signal wires, the 1756-OA8E require use of 1756-TBNH or 1756-TBSH Removable Terminal Block (RTB).

The 1756-OA8E ControlLogix 120V AC Output Digital Module by Allen-Bradley is a digital output module installed in any slot on the ControlLogix chassis and it has 8 electronically-fused 120V AC outputs. It comes with an output voltage range of 74-132V AC at 47-63 Hz and an output linger time of 9.3ms at 60 Hertz and 11ms at 50 Hertz for ON/OFF and OFF/ON. The 1756-OA8E has a 200mA backplane draw current at 5.1V and 250mA at 24V and a total backplane power rating of 7.02 Watt. It has a power dissipation of 5.5 Watt and 18.76 BTU/hr thermal dissipation. The 1756-OA8E's maximum OFF state leakage current is at 3mA per point and the voltage lost in its circuit peaks at 4V in the ON state. The 1756-OA8E has a maximum current of 2A on each output point, and the gross current on the module's outputs is 8A at 30 deg. C. The minimum load on each point is 10mA, and the circuit has a current surge of 20A for 43ms per point recurring every 2s. The 1756-OA8E's isolation voltage is 125V adopting basic insulation type tested at 1200V AC for 2 seconds between outputs-to-backplane and output group-to-group. It is CE and UL-certified for industrial purpose and it is designated at the T4 temperature code and comes in an open-style enclosure. The 1756-OA8E's optimal temperature ranges between 0 and 60 Celsius at 5-95% non-condensing relative humidity condition and it is stored and shipped at a temperature range between -40 and 85 deg. C.

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