

Allen-Bradley 1756 Series Service Manual

1756-OW16IK

1. Description

Allen Bradley ControlLogix Isolated Relay Output Module with 16-Point Individually Isolated Outputs Technical specifications for 1756-OW16IK

2. Specifications

Specification	Value
Manufacturer	Rockwell Automation
Brand	Allen-Bradley
Part	Number/Catalog No. 1756-OW16IK
Series	ControlLogix
Module	Type Isolated Relay Output Module
Outputs	16-Point Individually Isolated
Operating	Voltage 10-265 Volts AC, 5-150 Volts DC
Output	Current 2, 0.5, 0.25 Amps
Maximum	Output Delay Time 10 milliseconds
Contact	Output 13 N.O.
Power	Dissipation (Max) 4.5 Watts at 60 Celsius
Backplane	Current at 5 Volts 150 milliamps
Backplane	Current at 24 Volts 150 milliamps
Removeable	Terminal Block(s) 1756-TBCH, 1756-TBS6H
Isolation	Voltage 50 Volts Continuous
Enclosure	None Description
The	Allen-Bradley 1756-OW16IK module is a conformally-coated isolated contact module for Allen-Bradley ControlLogix 5580 programmable controllers. The 1756-OW16IK module has 16 normally open individually isolated outputs. The pilot duty is the C300/R150 pilot duty. The operating voltage ranges are from 5 to 125 Volts DC and 10 to 240 Volts AC. The output voltage range is load-dependent: at 1 Amp, the output v

3. Product Information

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The Allen-Bradley 1756-OW16IK module is a conformally-coated isolated contact module for Allen-Bradley ControlLogix 5580 programmable controllers. The 1756-OW16IK module has 16 normally open individually isolated outputs. The pilot duty is the C300/R150 pilot duty. The operating voltage ranges are from 5 to 125 Volts DC and 10 to 240 Volts AC. The output voltage range is load-dependent: at 1 Amp, the output voltage range is from 5 to 30 Volts DC, at 0.5 Amps, the output is 48 Volts DC, at 0.22 Amps, the output is 125 Volts DC, at 1.5 Amps, the output is 120 Volts AC (at 50 to 60 Hertz), and at 0.75 Amps, the output voltage is 240 Volts AC (at 50 to 60 Hertz).

The current draw of the 1756-OW16IK module at both 5.1 Volts and 24 Volts is 150 milliamps. The power draw from the chassis backplane is 4.4 Watts and the peak power dissipation is 4.5 Watts. The module thermal dissipation is 15.35 BTU per hour. The minimum load current per point is 10 milliamps. The initial contact resistance is 100 milliohms at 6 Volts and 1 Amp. The expected contact life is 300 kilohertz resistive and 100 kilohertz inductive. The 1756-OW16IK module can be used with removable terminal blocks, including the 1756-TBCH and 1756-TBS6H removable terminal blocks. One slot in the rack is required for module installation. The operating temperature range for the 1756-OW16IK module is from 0 to 60 degrees Celsius. The continuous isolation voltage rating is 250 Volts. The module can be installed when the chassis power is applied. However, it is not advisable to do so because an electric arc can occur during the module insertion or removal process which could lead to explosions in hazardous locations. The 1756-OW16I is a ControlLogix 16-point isolated contact output module which is manufactured by Allen-Bradley. Its operating voltage ranges between 10 and 240 Volts AC or 5 and 125 Volts DC, and it has 15.35 BTU/hour of thermal dissipation capability and CR300/R150 pilot duty. It weighs 0.414 kilograms and features an open-style enclosure. The 1756-OW16I output module features 16 individually isolated outputs and provides real-time information on its health and input/output status through its compare indicators. Output devices, controllers, and adapters in a ControlLogix system can send and receive output commands through the 1756-OW16I output module and the connections between it and other devices and components within the system can be achieved through rack optimized or direct connections.

A Logix5000 controller can serve as the owner-controller of the 1756-OW16I isolated contact output module for the purpose of sending configuration data and module behavior and operation data. It can be mounted in the same chassis as the Logix5000 controller or it can be mounted remotely via an EtherNet, ControlNet, or IP network. The 1756-OW16I isolated contact output module offers real-time diagnostics and fault reporting features and it requires either a Bulletin 1492 wiring interface module (IFM) or a removable terminal block for connecting all field-side wiring within the system.

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