

Allen-Bradley 1756 Series Service Manual

1756-IM16I

1. Description

Mfr. Part Number:

2. Specifications

Specification	Value
Manufacturer	Rockwell Automation
Brand	Allen-Bradley
Part	Number/Catalog No. 1756-IM16I
Series	ControlLogix
Module	Type Isolated Digital Input Module
Inputs	16 Individually Isolated Inputs
Input	Voltage 240 Volts AC
Operating	Voltage Range 159-265 Volts AC
Input	Delay Time Programmable 9 or 18 milliseconds
Minimum	Operating Current 5 milliamperes at 159 Volts AC, 60 Hertz
Maximum	Operating Current 13 milliamperes at 265 Volts AC, 60 Hertz
Maximum	Input Current, Off-State 2.5 milliamperes
Power	Dissipation (Max) 5.8 Watts at 60 degrees Celsius
Removeable	Terminal Block(s) 1756-TBCH, 1756-TBS6H
UPC	10612598171344 Description
The	Allen-Bradley 1756-IM16I is an AC digital input module. It has 16 individually isolated inputs, per point isolation, and you can configure a change of state and the input filter times. Compatible with the 1756 ControlLogix chassis, it requires either the 1756-TBS6H or 1756-TBCH 36-pin removable terminal block housing (RTB) to connect it to the chassis. The 1756-I

3. Product Information

Mfr. Part Number:

1756-IM16I

Manufacturer: Allen-Bradley / Rockwell Automation

Description: Allen-Bradley 1756-IM16I ControlLogix Isolated Input Module 159-265V AC 16-P

Full Description: Allen-Bradley 1756-IM16I ControlLogix Isolated Input Module 159-265V AC, 16-Points 36-Pin Allen Bradley ControlLogix Isolated Digital Input Module with 16

Individually Isolated Inputs Inputs Technical specifications for 1756-IM16I

Manufacturer Rockwell Automation

Brand Allen-Bradley

Part Number/Catalog No. 1756-IM16I

Series ControlLogix

Module Type Isolated Digital Input Module

Inputs 16 Individually Isolated Inputs

Input Voltage 240 Volts AC

Operating Voltage Range 159-265 Volts AC

Input Delay Time Programmable 9 or 18 milliseconds

Minimum Operating Current 5 milliamperes at 159 Volts AC, 60 Hertz

Maximum Operating Current 13 milliamperes at 265 Volts AC, 60 Hertz

Maximum Input Current, Off-State 2.5 milliamperes

Power Dissipation (Max) 5.8 Watts at 60 degrees Celsius

Removeable Terminal Block(s) 1756-TBCH, 1756-TBS6H

UPC 10612598171344 Description

The Allen-Bradley 1756-IM16I is an AC digital input module. It has 16 individually isolated inputs, per point isolation, and you can configure a change of state and the input filter times. Compatible with the 1756 ControlLogix chassis, it requires either the 1756-TBS6H or 1756-TBCH 36-pin removable terminal block housing (RTB) to connect it to the chassis. The 1756-IM16I's operating voltage range is from 159 to 265 Volts AC, maximum inrush current is 250 milliamps, and the voltage category is 240 Volts AC 50/60 Hertz. It has a backplane current of 100 milliamps at 5 Volts and 3 milliamps at 24 Volts, with a total backplane power of 0.58 Watts. The module has a maximum power dissipation of 5.8 Watts at 60 Degrees Celsius and a thermal dissipation of 19.78 BTU/hour. The 1756-IM16I has a screw to backplane input delay time when going from an off to on state, and vice versa. From 'off' to 'on', the input delay time is the hardware delay of 10 milliseconds max plus the input filter time (user-selectable at 1 or 2 milliseconds), while from 'on' to 'off', it is the hardware delay time of 8 milliseconds max plus the input filter time (user-selectable at 9 or 18 milliseconds). The maximum current of the module during an off-state is 2.5 milliamps and 40 Volts AC is its maximum voltage at that state. During an on-state, the current ranges from 5 milliamps at 159 Volts AC, 60Hertz to 13 milliamps at 265 Volts AC, 60 Hertz. On the other hand, the on-state voltage range varies and they are: 159-265 Volts AC, 47-63 Hertz at 30 Degrees Celsius with all channels ON, 159-265 Volts AC, 47-63 Hertz at 40 Degrees Celsius with 8 points ON, 159 to 253 Volts AC, 47-63 Hertz at 45 Degrees Celsius with all channels on, and 159 to 242 Volts AC, 47-63 Hertz at 60 Degrees Celsius with all channels ON.