

Allen-Bradley 1769 Series Service Manual

1769-OB32T

1. Description

The Allen-Bradley 1769-OB32T is a 1769 Compact I/O module. This module is a discrete output module that features thirty-two (32) 24 Volt DC sourcing output channels. It has a power supply distance rating of eight (8) modules with a backplane current draw of 220 milliamperes @ 5 Volts DC. This module may be used with the 1769 CompactLogix controllers or the MicroLogix 1500 controller. Technical specifications for 1769-OB32T

2. Specifications

Specification	Value
Brand	Allen-Bradley
Manufacturer	Rockwell Automation
Mounting	DIN Rail
Product	family 1769 Compact IO
Module	Description 32-channel sourcing output module
Number	of Outputs: 32
Compatible	controllers 1769 CompactLogix; MicroLogix 1500
ON	state Voltage, min: 10.2 VDC
ON	state Voltage, max. 26.4 VDC
ON	state Voltage, nom: 24VDC
Max.	continuous output current per point: 2.0 A
Max.	continuous output current per module 4. 0A
Power	Supply Distance rating 8
Enclosure	Open-type
Operating	Temperature: 0 to 60 C (32 to 140 F)
Storage	Temperature: -40 to 85 C (-40 to 185 F)
Vibration:	5g @ 10 to 500 Hz
Operating	Shock: 30 g
Part	Number/Catalog No. 1769-OB32T
Product	Line CompactLogix
Module	Type DC Output Module
Input	Type Digital Output
Communication	Cable 32 Point
Shipping	Weight 2 lbs.
Shipping	Dimensions 8X8X5 in.
Series	A and B
Wire	Size (Stranded) 22-16 AWG
Replacement	Terminal Block 1769-RTBN18
Replacement	Door 1769-RD
UPC	10662074455352
UNSPSC	32151705 Description
The	1769-OB32T is a com

3. Product Information

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Storage Temperature: -40 to 85 C (-40 to 185 F)

Vibration: 5g @ 10 to 500 Hz

Operating Shock: 30 g

Part Number/Catalog No. 1769-OB32T

Product Line CompactLogix

Module Type DC Output Module

Input Type Digital Output

Communication Cable 32 Point

Shipping Weight 2 lbs.

Shipping Dimensions 8X8X5 in.

Series A and B

Wire Size (Stranded) 22-16 AWG

Replacement Terminal Block 1769-RTBN18

Replacement Door 1769-RD

UPC 10662074455352

UNSPSC 32151705 Description

The 1769-OB32T is a compact I/O module. This module features a 32-point output channels that delivers a nominal output voltage of 24VDC. It has an operating voltage range of 10.2 and 26.4V DC, and a 0.5 ms output delay for On transition and output delay of 4 ms for Off transition. The 1769-OB32T has a draw current of 220mA at 5.1V and a 4.67W maximum heat dissipation. It has a maximum leakage current (off-state) of 0.1mA at 26.4V and a minimum current (on-state) of 1.0mA. The 1769-OB32T has a maximum current-per-point of 0.5A with a surge current of 2.0A for 10ms, which is repeatable every 2 seconds. The 1769-OB32T has a single slot width and can mount on a DIN rail or panel mount. The module weighs about 230 g (0.51 lb) and has dimensions of about 118 x 35 x 87 mm (4.65 x 1.38 x 3.43 in.) It comes with IEC Class 2 reinforced insulation. The 1769- OB32T has an 8-module rating power supply distance and a terminal torque screw of 0.68 Nm. It also has copper wiring with either a 22 by 14 AWG solid wire size or a 22 by 16 AWG stranded wire size.

The Allen-Bradley 1769-OB32T is a 1769 Compact I/O module. This module is a discrete output module which features thirty-two (32) sourcing output channels with nominal output voltage of 24 Volts DC and output voltage range of 10.3 - 26.4 Volts DC. This module is used in compatibility with the 1769 CompactLogix controllers or the MicroLogix 1500 controllers. It is a single slot module that directly installs to the backplane of the 1769 assembly or the MicroLogix 1500 expansion slot.

The 1769-OB32T output channels have continuous output current per common of 2.0 Amperes and a maximum continuous output current per module of 4.0 Amperes with maximum surge current of 2. 0 Amperes, once every 2 seconds with a maximum duration of 10 milliseconds. Each channel exhibits a signal delay of 0.5 milliseconds before switching ON and 0.4 milliseconds before turning OFF while the maximum off-state leakage current is 0.1 milliampere @ 26.4 Volts DC. Furthermore, the module's minimum on-state current is 1.0 milliampere while the maximum on-state voltage drop is 0.3 Volts DC @ 0.5 Amperes.

The 1769-OB32T has a maximum backplane current draw of 220 milliamperes @ 5 Volts DC with a maximum power dissipation of 1.10 Watts and thermal dissipation of 4.76 Watts. This module has a power supply distance rating of 8 modules, therefore, it must be mounted not more than 8 modules away from the power supply. In situations where the module cannot follow the power supply distance rating, an I/O power supply can be installed strategically to the backplane to qualify the assembly and operate the control system. Mfr. Part Number:

1769-OB32T

Manufacturer: Allen-Bradley / Rockwell Automation

Description: Allen-Bradley 1769-OB32T Compact I/O 32-Point 24V DC Source Output Module

Full Description: Allen-Bradley 1769-OB32T Compact I/O 32-Point High Density Terminated Output Module 24V DC, Solid-state Source, Single Wide

UPC / GTIN: 10662074455352

Status: Current Product

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