

Bently Nevada 3500 Series Service Manual

3500/33-01-00

1. Description

3500/33-01-00

3. Product Information

3500/33-01-00 | Bently Nevada | 16-Channel Relay Module

Manufacturer : Bently Nevada

Product No. : 3500/33-01-00

Product type : 16-Channel relay module

Made in U.S.A

Output module : 01 = 16-Channel relay output module

Agency approval option : 00 = None

Dimensions (D x W x H) : 24.20 cm x 2.44 cm x 24.10 cm

Weight : 0.70 Kg

Specifications

Inputs

Power Consumption: 5.8 watts typical

Outputs

Front Panel LEDs

OK LED: Illuminated when the 3500/33 16-Channel Relay Module is operating properly.

TX/RX LED: Transmit and receive flashes when the 3500/33 16-Channel Relay Module is communicating with other modules in the 3500 rack.

CH Alarm LED: Illuminated when Relay channel is in an alarm state.

Relay Type :Single-pole

Double-throw (SPDT)

Relay Environmental Sealing: Epoxy-sealed

Relay Arc Suppressor: 250 Vrms Installed as standard

Relay Contact Life: 10,000 cycles

Relay Operation: Four groups of four channels are switch selectable for Normally De-energized (ND) or Normally Energized (NE) operation.

Physical

Main Module

Dimensions (height x widthx depth)

241 mm x 24.4 mm x 242 mm

(9.50 in x 0.96 in x 9.52 in)

Weight 0.7 kg (1.6 lb)

I/O Module

Dimensions (height x widthx depth)

241 mm x 24.4 mm x 99.1 mm

(9.50 in x 0.96 in x 3.90 in)

Weight 0.4 kg (1.0 lb)

Rack Space Requirements

Main Module 1 full-height front slot

I/O Modules 1 full-height rear slot

Contact Ratings for Standard Systems

Standard Relays

Min Switched Current□ 100 mA @ 5 Vdc

DC Specifications (Resistive Load)

Max Switched Current□ 5 A

Max Switched Power□

70 W @ 24 Vdc

10 W @ 48 Vdc

9 W @ 60 Vdc

Max Switched Voltage□ 125 Vdc

AC Specifications (Resistive Load)

Max Switched Current□ 5 A

Max Switched Power□ 1200 VA

Max Switched Voltage□ 250 Vac

WARNING

HAZARDOUS VOLTAGE

RISK OF ELECTRIC SHOCK

OR BURN

When you connect the

field wiring to the

3500/33 16-Channel Relay

Module, conductors may

be exposed, creating a
shock hazard at high
voltages.

Contact Ratings for Failsafe

Systems and Hazardous Area

Systems

Standard Relays

Min Switched Current□ 100 mA @ 5 Vdc

DC Specifications (Resistive Load)

Max Switched Current□ 5 A

Max Switched Voltage□ 30 Vdc

I Minimum switched load for standard

(silver) contacts is 100 mA @ 5 Vdc.

I Minimum switched load for Low Current

(gold-plated) contacts is 1 mA @ 1 Vdc.

WARNING

EXPLOSION HAZARD

RISK OF BODILY INJURY

Disconnect power prior to

servicing. Do not

disconnect while circuit is

live unless area is known

to be non-hazardous.

Consult manual prior to

servicing.

Contact Ratings for Special Low

Current Relay Applications

Low Current Relays

DC Specifications (Resistive Load)

Min Switched Current□ 1 mA @ 1 Vdc

Max Switched Current□ 100 mA @ 48 Vdc

Specific to AC up to 120VAC:

I The Minimum switching current for Gold plated is 1m A

I The maximum switching current before damaging the Gold relays is 5m A

