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 3500/3316-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

3500/3316-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
l Minimum switched load for standard
(silver) contacts is 100 mA @ 5 Vdc.
l 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:
l The Minimum switching current for Gold plated is 1m A
l The maximum switching current before damaging the Gold relays is 5m A