

INDUSTRIAL AUTOMATION PRODUCT

3500/33-SIL2-03-01

3500/33 16-Channel Relay Module

Bently Nevada 3500/33-SIL2-03-01 is a 3500/33 16-Channel Relay Module for the 3500 Machinery Protection System. It provides sixteen configured relay outputs for 3500 alarm and protection logic.

IDENTITY	VERIFIED VALUE
Manufacturer	Bently Nevada
System family	Bently Nevada 3500 Machinery Protection System
Part number	3500/33-SIL2-03-01
Product role	Provides sixteen relay output channels
Lifecycle	Installed product record

DOCUMENT SCOPE

Exact-article identity, technical data, host role, installation checks, applications, precautions and engineering verification.

MODEL-SPECIFIC ENGINEERING NOTE

Before removing 3500/33-SIL2-03-01, record the complete marking, installed position, mating hardware, connectors, wiring and configured channel role. Restore the documented arrangement, review system diagnostics and complete a controlled functional test before release.

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WHATSAPP / PHONE +86 180 3023 5313
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com



3500/33-SIL2-03-01

Technical Specifications

Technical values below are limited to the named Bently Nevada product record and directly applicable manufacturer documentation.

PARAMETER	VALUE	PARAMETER	VALUE
Complete order number	3500/33-SIL2-03-01	Output option	03 low-current relay output module
Complete supplied identity	3500/33-SIL2-03-01	Approval	01 cNRTLus Class I, Division 2
Relay channels	16		

Verified Product Record

DATA GROUP	VERIFIED VALUE
Installed host / carrier	Bently Nevada 3500 Machinery Protection System
Primary system role	Provides sixteen relay output channels
Connection boundary	Before removing 3500/33-SIL2-03-01, record the complete marking, installed position, mating hardware, connectors, wiring and configured channel role. Restore the documented arrangement, review system diagnostics and complete a controlled functional test before release.
Controlled acceptance duty	3500 rack system integration

ENGINEERING BOUNDARY

Confirm 3500/33-SIL2-03-01, 3500 rack and slot, module and I/O hardware revisions, terminal or port assignments, wiring, grounding, rack firmware, software configuration, associated accessories and controlled diagnostic and protection-test results before commissioning.

Pre-Installation Checks

1	Confirm the complete 3500/33-SIL2-03-01 marking and assigned 3500 rack position.	2	Place every affected protection function in the approved maintenance state.
3	Record module, I/O and rack hardware revisions before removal.	4	Record every configured channel, port, relay or power connection.

Documented Service Record

RECORD ITEM	REQUIRED ENTRY
As-found article	3500/33-SIL2-03-01
Installed host	Bently Nevada 3500 Machinery Protection System
Connection record	Capture before removal
Controlled release	Diagnostics and functional proof

System Role and Architecture

Bently Nevada 3500/33-SIL2-03-01 is a 3500/33 16-Channel Relay Module for the 3500 Machinery Protection System. It provides sixteen configured relay outputs for 3500 alarm and protection logic.

FUNCTION 1
Provides sixteen relay output channels

FUNCTION 2
Maps configured rack alarms to field circuits

FUNCTION 3
Uses the documented low-current output option

FUNCTION 4
Supports controlled alarm-path proof testing

Matched System Components

NO.	DOCUMENTED COMPONENT / ROLE
1	Bently Nevada 3500 Machinery Protection System
2	3500/33-SIL2-03-01
3	3500 rack system integration
4	Before removing 3500/33-SIL2-03-01, record the complete marking, installed position, mating hardware, connectors, wiring and configured channel role. Restore the documented arrangement, review system diagnostics and complete a controlled functional test before release.

System Integration Record

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	Bently Nevada 3500 Machinery Protection System
Interface role	Provides sixteen relay output channels
Field / power context	3500/33-SIL2-03-01 is installed only in the documented Bently Nevada 3500 Machinery Protection System arrangement with its matching host, terminal, cable or field interface. Commissioning preserves the as-found configuration and uses controlled identity, connection, diagnostic and functional checks.
Commissioning evidence	Perform controlled channel and protection-path tests before service release.

Installation and Connection Checks

1

Isolate applicable rack and field energy and observe ESD controls.

2

Restore the documented rack slot, wiring and software configuration.

3

Review rack, module and communication diagnostics after startup.

4

Perform controlled channel and protection-path tests before service release.

MANUFACTURER SOURCE RECORD

3500/33 16-Channel Relay Module Datasheet
Baker Hughes publication 162301 Rev. AC

Applications and Engineering Context

3500 rack system integration

Provides sixteen configured relay outputs for 3500 alarm and protection logic.

Machinery protection modernization

Restores an exact rack position while retaining the approved protection strategy.

Rotating-equipment monitoring

Supports configured vibration, position, speed or status information in the rack.

Controlled rack recommissioning

Provides the exact module identity used for diagnostics and functional acceptance.

TECHNICAL NOTE

Before removing 3500/33-SIL2-03-01, record the complete marking, installed position, mating hardware, connectors, wiring and configured channel role. Restore the documented arrangement, review system diagnostics and complete a controlled functional test before release.

Model-Specific Acceptance Evidence

CHECK	ACCEPTANCE CONDITION
Identity	3500/33-SIL2-03-01 recorded
Host / carrier	Bently Nevada 3500 Machinery Protection System
Physical interface	Provides sixteen relay output channels
Configuration	Review rack, module and communication diagnostics after startup.
Functional proof	Perform controlled channel and protection-path tests before service release.

IMPORTANT NOTICE

Confirm 3500/33-SIL2-03-01, 3500 rack and slot, module and I/O hardware revisions, terminal or port assignments, wiring, grounding, rack firmware, software configuration, associated accessories and controlled diagnostic and protection-test results before commissioning.

Controlled Release Summary

RELEASE ITEM	MODEL-SPECIFIC CONDITION
Article identity	3500/33-SIL2-03-01
Approved role	3500 rack system integration
Final validation	Perform controlled channel and protection-path tests before service release.

Engineering Precautions

1	Confirm the complete 3500/33-SIL2-03-01 marking and assigned 3500 rack position.	2	Place every affected protection function in the approved maintenance state.
3	Record module, I/O and rack hardware revisions before removal.	4	Record every configured channel, port, relay or power connection.
5	Isolate applicable rack and field energy and observe ESD controls.	6	Restore the documented rack slot, wiring and software configuration.
7	Review rack, module and communication diagnostics after startup.	8	Perform controlled channel and protection-path tests before service release.

Related Products on Apter Power

MODEL	SYSTEM ROLE	APTER POWER PAGE
3500/25	Keyphasor module	View 3500/25 page
3500/40M	Proximitior monitor	View 3500/40M page
3500/42M	monitor I/O module	View 3500/42M page
130118-0050-02	host-to-rack communication cable	View 130118-0050-02 page
3500/53	overspeed detection module	View 3500/53 page
3500/72M	reciprocating-rod monitor	View 3500/72M page
330101-00-08-05-02-05	8 mm proximity probe	View 330101-00-08-05-02-05 page
330103-00-04-10-02-00	metric proximity probe	View 330103-00-04-10-02-00 page

MANUFACTURER SOURCE RECORD

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