

3500/05-01-02-00-00-01

3500 Full-size Rack, 19-inch EIA Rack Mount

INSTALLATION, INTERFACE AND VALIDATION WORKBOOK

Bently Nevada 3500/05-01-02-00-00-01 is a full-size 19-inch system rack with fourteen monitor positions, rack mounting and CE compliance. It provides the backplane and mechanical platform for 3500 power, interface and monitor modules.

STEP	GATE	ENGINEERING PURPOSE
01	IDENTIFY	Confirm article, host and hardware
02	ISOLATE	Secure power and stored energy
03	CONNECT	Restore documented interfaces
04	VALIDATE	Prove diagnostics and function

WORKBOOK PURPOSE

Field-ready identity, isolation, connection, commissioning and closeout records for this exact Bently Nevada article.

APTER POWER SALES TEAM

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



3500/05-01-02-00-00-01

Installation Readiness Gate

Complete the identity, host-system and isolation checks before disturbing the installed hardware.

- 1

Confirm the full 3500/05-01-02-00-00-01 order string and rack serial record.
- 2

Place every connected protection channel and final element in the approved maintenance state.
- 3

Verify the 19-inch EIA mounting rails, cabinet support and protective grounding.
- 4

Record all module positions, power supplies and rear I/O assignments before work.

Pre-Work Evidence

EVIDENCE ITEM	RECORDED VALUE
Complete article marking	3500/05-01-02-00-00-01
Host / carrier	Bently Nevada 3500 Machinery Protection System
Primary system role	Provides fourteen available 3500 monitor positions
Acceptance boundary	Complete channel diagnostics, relay proof tests and controlled machine release.
Source record	3500/05 System Rack Datasheet

WORK AUTHORIZATION RECORD

Work order: _____

Drawing / revision: _____

Checked by: _____

Date: _____

Isolation and Access Register

CONTROL POINT	ENGINEER RECORD
Incoming supply	Isolated / proved
Stored energy	Discharged / proved
Field connections	Identified / protected
ESD control	Established / recorded

Pre-Work Documentation

DOCUMENT	ENGINEER RECORD
Connection photograph	Reference / file
Configuration backup	Reference / revision
Diagnostic baseline	Reference / result

Connection and Installation Sequence

INSTALLATION PRINCIPLE

Mount 3500/05-01-02-00-00-01 on approved 19-inch EIA rails and preserve the dedicated power-supply and rack-interface positions at the far left. After module installation, verify slot assignment, power distribution, grounding, rack communications and every configured monitor diagnostic.

- 1 Keep the power supplies and rack interface module in their dedicated far-left positions.
- 2 Inspect the backplane, module guides, internal barriers and unused-position covers.
- 3 Restore rack configuration and verify communication with every installed monitor.
- 4 Complete channel diagnostics, relay proof tests and controlled machine release.

Connection Record

CONNECTION GROUP	AS-FOUND / AS-LEFT RECORD	STATUS
Power / field connection	Reference / terminal	Checked
Signal / interface	Reference / connector	Checked
Ground / shield	Reference / point	Checked
Accessory / carrier	Reference / part	Checked

MODEL-SPECIFIC RELEASE LIMIT

Confirm 3500/05-01-02-00-00-01, full-size rack and 19-inch EIA mounting, fourteen-position slot map, power supplies, rack interface module, rear I/O modules, internal barriers and earthing module if fitted, grounding, 3500 configuration version and complete protection-channel tests before commissioning.

Interface Acceptance Criteria

ACCEPTANCE ITEM	REQUIRED EVIDENCE
Identity	3500/05-01-02-00-00-01
Host match	Bently Nevada 3500 Machinery Protection System
Connection proof	Inspect the backplane, module guides, internal barriers and unused-position covers.
Configuration proof	Restore rack configuration and verify communication with every installed monitor.

Commissioning and Acceptance Record

Record each controlled verification step before the equipment returns to automatic operation.

NO.	ACCEPTANCE CHECK	RESULT	RECORD
1	Article and host identity	PASS / FAIL	Initial / date
2	Mechanical installation	PASS / FAIL	Initial / date
3	Power and field wiring	PASS / FAIL	Initial / date
4	Grounding and shielding	PASS / FAIL	Initial / date
5	Configuration restoration	PASS / FAIL	Initial / date
6	Signal or power-path response	PASS / FAIL	Initial / date
7	Diagnostics and alarms	PASS / FAIL	Initial / date
8	Final functional release	PASS / FAIL	Initial / date

Engineering Notes

RECORD AREA	ENGINEER ENTRY
As-found condition	
Corrective action	
As-left configuration	
Outstanding restriction	
Release authorization	

CONTROLLED COMMISSIONING

Complete channel diagnostics, relay proof tests and controlled machine release.

Diagnostics and Release Log

EVENT	ENGINEERING RECORD
Initial energization	Result / observation
Interface or signal response	Result / observation
Alarm and diagnostic review	Result / observation
Functional release	Name / date

Maintenance Verification and Closeout

Turbomachinery protection racks

Houses vibration, position, speed and relay modules for an engineered machine train.

Compressor monitoring cabinets

Provides a central 3500 platform for proximity and seismic monitor channels.

Power-generation protection systems

Supports configured rack interface, monitor and relay hardware for rotating assets.

3500 rack modernization

Provides the documented full-size rack form for a controlled module migration.

Related Engineering Pages

MODEL	ENGINEERING ROLE	APTER POWER PAGE
3500/64M	140734-05 pressure monitor	View 3500/64M page
3500/65	145988-02 temperature monitor	View 3500/65 page
3500/72M	176449-08 rod position monitor	View 3500/72M page
3500/92	136180-01 gateway module	View 3500/92 page
3500/15	133292-01 power supply	View 3500/15 page
3500/22M	288055-01 data interface	View 3500/22M page
3500/25	enhanced Keyphasor module	View 3500/25 page
3500/33	149986-01 relay module	View 3500/33 page

MANUFACTURER SOURCE RECORD

3500/05 System Rack Datasheet
Baker Hughes document 141525 Rev. N, 2025

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