

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

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

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.

IDENTITY	VERIFIED VALUE
Manufacturer	Bently Nevada
System family	Bently Nevada 3500 Machinery Protection System
Part number	3500/05-01-02-00-00-01
Product role	Provides fourteen available 3500 monitor positions
Lifecycle	Installed product record

DOCUMENT SCOPE

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

MODEL-SPECIFIC ENGINEERING NOTE

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.

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Technical Specifications

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

PARAMETER	VALUE	PARAMETER	VALUE
Rack size	19-inch full-size rack	Reserved option	None
Available monitor positions	14	European compliance	CE
Mounting option	Rack mount	Power-supply positions	Far-left dedicated positions
Mounting standard	19-inch EIA rails	Rack interface position	Far-left next to power supplies
Agency approval option	None	Wiring access	Rear

Verified Product Record

DATA GROUP	VERIFIED VALUE
Installed host / carrier	Bently Nevada 3500 Machinery Protection System
Primary system role	Provides fourteen available 3500 monitor positions
Connection boundary	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.
Controlled acceptance duty	Turbomachinery protection racks

ENGINEERING BOUNDARY

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.

Pre-Installation Checks

- 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.

Documented Service Record

RECORD ITEM	REQUIRED ENTRY
As-found article	3500/05-01-02-00-00-01
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 3500/05-01-02-00-00-01 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.

FUNCTION 1
Provides fourteen available 3500 monitor positions

FUNCTION 2
Mounts on standard 19-inch EIA rails

FUNCTION 3
Distributes rack power and backplane communications

FUNCTION 4
Carries the selected CE compliance option

Matched System Components

NO.	DOCUMENTED COMPONENT / ROLE
1	Bently Nevada 3500 Machinery Protection System
2	14
3	Turbomachinery protection racks
4	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.

System Integration Record

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	Bently Nevada 3500 Machinery Protection System
Interface role	Provides fourteen available 3500 monitor positions
Field / power context	The rack carries the power supplies, rack interface module and the approved combination of monitor modules. Rack-mount execution provides rear access to I/O modules and wiring; commissioning includes mechanical fastening, protective grounding, module-position verification, power checks and full rack diagnostics.
Commissioning evidence	Complete channel diagnostics, relay proof tests and controlled machine release.

Installation and Connection Checks

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.

MANUFACTURER SOURCE RECORD

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

Applications and Engineering Context

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.

TECHNICAL NOTE

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.

Model-Specific Acceptance Evidence

CHECK	ACCEPTANCE CONDITION
Identity	3500/05-01-02-00-00-01 recorded
Host / carrier	Bently Nevada 3500 Machinery Protection System
Physical interface	Provides fourteen available 3500 monitor positions
Configuration	Restore rack configuration and verify communication with every installed monitor.
Functional proof	Complete channel diagnostics, relay proof tests and controlled machine release.

IMPORTANT NOTICE

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.

Controlled Release Summary

RELEASE ITEM	MODEL-SPECIFIC CONDITION
Article identity	3500/05-01-02-00-00-01
Approved role	Turbomachinery protection racks
Final validation	Complete channel diagnostics, relay proof tests and controlled machine release.

Engineering Precautions

- 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.
- 5

Keep the power supplies and rack interface module in their dedicated far-left positions.
- 6

Inspect the backplane, module guides, internal barriers and unused-position covers.
- 7

Restore rack configuration and verify communication with every installed monitor.
- 8

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

Related Products on Apter Power

MODEL	SYSTEM ROLE	APTER POWER 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
3500/40M	176449-01 proximity monitor	View 3500/40M page
3500/42M	176449-02 seismic monitor	View 3500/42M page
3500/45	176449-04 position monitor	View 3500/45 page
3500/50	tachometer module	View 3500/50 page
3500/64M	140734-05 pressure monitor	View 3500/64M page

MANUFACTURER SOURCE RECORD

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