

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.

BRAND	Bently Nevada	FAMILY	Bently Nevada 3500 Machinery Protection System
PART	3500/05-01-02-00-00-01	SYSTEM ROLE	Provides fourteen available 3500 monitor positions

APTER POWER SALES
TEAM

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



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

MANUFACTURER SOURCE RECORD

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

Product Overview

SYSTEM FUNCTION

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

System Components

COMPONENT	DOCUMENTED ROLE
Host / carrier	Bently Nevada 3500 Machinery Protection System
Primary interface	Provides fourteen available 3500 monitor positions
Engineering 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 duty	Complete channel diagnostics, relay proof tests and controlled machine release.

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.

Technical Data

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

Related Products on Apter Power

MODEL	SYSTEM ROLE	APTER POWER 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
3500/65	145988-02 temperature monitor	View 3500/65 page
3500/72M	176449-08 rod position monitor	View 3500/72M page

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.

Applications and Precautions

Common Applications

Turbomachinery protection racks

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

Power-generation protection systems

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

Compressor monitoring cabinets

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

3500 rack modernization

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

Product 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.

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.

ACCEPTANCE CHECK	REQUIRED EVIDENCE
Identity	3500/05-01-02-00-00-01
Configuration	Restore rack configuration and verify communication with every installed monitor.
Functional release	Complete channel diagnostics, relay proof tests and controlled machine release.

Engineer FAQ

Q1 What exact function does 3500/05-01-02-00-00-01 perform as a 3500 Full-size Rack, 19-inch EIA Rack Mount?

It provides the full-size backplane and mechanical carrier for the configured 3500 power, interface and monitor modules.

Q3 Which connection checks are required for 3500/05-01-02-00-00-01?

Check rail fastening, rear I/O access, backplane connectors and protective earth.

Q5 Which diagnostic evidence should be reviewed for 3500/05-01-02-00-00-01?

Review power-supply, rack-interface, communication and every installed monitor diagnostic.

Q7 How should 3500/05-01-02-00-00-01 be commissioned after installation?

Energize under control, verify rack communications, then prove affected protection and relay functions.

Q2 Which host system must be confirmed before installing 3500/05-01-02-00-00-01?

Confirm the documented Bently Nevada 3500 Machinery Protection System host and the complete 3500/05-01-02-00-00-01 marking before work.

Q4 How should the installed configuration for 3500/05-01-02-00-00-01 be preserved?

Restore the documented fourteen-position module map and rack configuration.

Q6 What must be recorded before replacing 3500/05-01-02-00-00-01?

Record the order string, rack serial, module map, rear I/O map, configuration and relay states.

Q8 Which model-specific limitation applies to 3500/05-01-02-00-00-01?

Power supplies and the rack interface module must occupy the dedicated far-left positions.

MANUFACTURER SOURCE RECORD

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

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