Bently Nevada 3300/53

Complete Product Information

The system compares redundant speed channels with configured trip logic and can operate as a stand-alone assembly or within a 3300 rack installation.

WHAT THIS PRODUCT DOES

Bently Nevada 3300/53 is a multi-channel overspeed protection system that accepts speed inputs from proximity transducers or magnetic pickups.

Product characteristic 1 Uses two or three independent speed channels.	**Product characteristic 2** Accepts proximity or magnetic-pickup speed signals.
Product characteristic 3 Provides configured voting for overspeed protection.	**Product characteristic 4** Supports stand-alone or rack-mounted application.

PRODUCT-PAGE TECHNICAL SNAPSHOT

System family	3300 overspeed protection
Protection channels	Two or three
Supported inputs	Proximity transducer or magnetic pickup
Primary measurement	Rotational speed

IMPORTANT NOTICE Record the installed 3300/53 interfaces and configuration before removal, then prove the monitored value, status and alarm path after installation.

APTERPOWER SALES TEAM
WhatsApp / Phone: +86 180 3023 5313
Email: sales13@apterpower.com
Scan the approved WhatsApp code for model-specific support.

Features and technical data

TECHNICAL DATA SHOWN ON THE PRODUCT PAGE

System family	3300 overspeed protection
Protection channels	Two or three
Supported inputs	Proximity transducer or magnetic pickup
Primary measurement	Rotational speed
Protection function	Overspeed trip voting
Installation modes	Stand-alone or 3300 rack
Configuration control	Trip setpoints and channel voting logic
Acceptance method	Independent speed simulation for every channel and trip output

FEATURE INTERPRETATION

Product identity

Uses two or three independent speed channels.

System role

Accepts proximity or magnetic-pickup speed signals.

Service context

Provides configured voting for overspeed protection.

Return-to-service focus

Supports stand-alone or rack-mounted application.

SIGNAL OR CONTROL PATH

Field device → **Product interface** → **System channel** → **Verified response**

Use 3300/53 only in the documented monitoring chain and verify the complete signal path after controlled replacement.

PRODUCT-PAGE TECHNICAL QUESTIONS

Where is system family used by Bently Nevada 3300/53?	The documented system family is 3300 overspeed protection; confirm it against the installed record.
What controls protection channels on Bently Nevada 3300/53?	The documented protection channels is Two or three; confirm it against the installed record.
How is supported inputs tested on Bently Nevada 3300/53?	The documented supported inputs is Proximity transducer or magnetic pickup; confirm it against the installed record.

Common applications

The application groups below reproduce the model-specific uses presented on the product page and connect each use to a practical verification point.

Turbine overspeed protection

Trips on confirmed excessive shaft speed.

Compressor trains

Adds redundant speed protection to critical drivers.

Stand-alone protection

Operates without a complete 3300 monitoring rack.

Trip-system proof test

Verifies channel inputs, voting and final outputs.

APPLICATION VERIFICATION MAP

Turbine overspeed protection	Confirm the documented system position and the required operating function.
Compressor trains	Compare the restored connection or control path with the approved record.
Stand-alone protection	Check the physical interface and the retained configuration before startup.
Trip-system proof test	Record diagnostics and the final controlled response before release.

INFORMATION CARRIED INTO THE WORK RECORD

Identity record

Complete marking and assigned system position.

Connection record

Connector, conductor and interface arrangement as found.

Configuration record

Controlled settings, application data and option state.

Acceptance record

Observed status, response and release decision.

IMPORTANT NOTICE

Use the complete product identifier for every application review; a related product link does not establish interchangeability.

APPLICATION QUESTIONS

How is supported inputs tested on Bently Nevada 3300/53?	The documented supported inputs is Proximity transducer or magnetic pickup; confirm it against the installed record.
Which record preserves primary measurement for Bently Nevada 3300/53?	The documented primary measurement is Rotational speed; confirm it against the installed record.
Which protection function applies to Bently Nevada 3300/53?	The documented protection function is Overspeed trip voting; confirm it against the installed record.

Product precautions and questions

EIGHT MODEL-SPECIFIC PRECAUTIONS

01	Confirm the complete 3300/53 marking and the documented overspeed protection system position.
02	Place the affected machine protection channel in the approved maintenance state.
03	Record the installed system family, protection channels and supported inputs before removal.
04	De-energize the associated monitor, sensor supply or field circuit as the procedure requires.
05	Label every connector, conductor and shield before separation.
06	Inspect mating contacts, mounting hardware and cable condition before installation.
07	Restore the retained configuration and verify signal polarity and proportional response.
08	Function-test the complete alarm, indication and shutdown path before returning the machine to service.

FREQUENTLY ASKED TECHNICAL QUESTIONS

Where is system family used by Bently Nevada 3300/53?	The documented system family is 3300 overspeed protection; confirm it against the installed record.
What controls protection channels on Bently Nevada 3300/53?	The documented protection channels is Two or three; confirm it against the installed record.
How is supported inputs tested on Bently Nevada 3300/53?	The documented supported inputs is Proximity transducer or magnetic pickup; confirm it against the installed record.
Which record preserves primary measurement for Bently Nevada 3300/53?	The documented primary measurement is Rotational speed; confirm it against the installed record.

IMPORTANT NOTICE	Confirm the complete 3300/53 identity and every mating interface before installation.

RELEASE CHECKLIST

Identity accepted	The complete product marking and assigned system position agree.
Interfaces accepted	Connections, retention and controlled configuration match the recorded condition.
Response accepted	Diagnostics and the intended technical response have been documented.

FAQ, document reference and related models

ADDITIONAL TECHNICAL QUESTIONS

Which protection function applies to Bently Nevada 3300/53?	The documented protection function is Overspeed trip voting; confirm it against the installed record.
How is installation modes set on Bently Nevada 3300/53?	The documented installation modes is Stand-alone or 3300 rack; confirm it against the installed record.
What configuration control belongs to Bently Nevada 3300/53?	The documented configuration control is Trip setpoints and channel voting logic; confirm it against the installed record.
Why verify acceptance method for Bently Nevada 3300/53?	The documented acceptance method is Independent speed simulation for every channel and trip output; confirm it against the installed record.

MANUFACTURER DOCUMENT REFERENCE

Manufacturer document	ApterPower product-specific technical reference
Application scope	The values below apply to the identified product and its documented system relationship.
Selection rule	Use the complete ordering string and confirm the installed interfaces before selection.

RELATED MODELS ON APTERPOWER

Bently Nevada 3300/03	Related product reference. Review the complete ordering string before selection.
Bently Nevada 3500/94M 184826-01	Related product reference. Compare the required interface and system position.
Bently Nevada 140482-01	Related product reference. Confirm the execution independently for the intended task.

APTERPOWER SALES TEAM
WhatsApp / Phone: +86 180 3023 5313
Email: sales13@apterpower.com
Scan the approved WhatsApp code for model-specific support.