Bently Nevada 3300/53

Technical Reference

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

PRODUCT ROLE AND TECHNICAL FEATURES

Feature 1

Uses two or three independent speed channels.

Feature 2

Accepts proximity or magnetic-pickup speed signals.

Feature 3

Provides configured voting for overspeed protection.

Feature 4

Supports stand-alone or rack-mounted application.

TECHNICAL DATA SNAPSHOT

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

SYSTEM RELATIONSHIP

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

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Technical profile

Technical values for the complete product string are arranged below for selection and engineering review.

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

SELECTION ANCHORS

- Uses two or three independent speed channels.
- Accepts proximity or magnetic-pickup speed signals.
- Provides configured voting for overspeed protection.
- Supports stand-alone or rack-mounted application.

IMPORTANT NOTICE	Use the values as one matched configuration. Do not substitute a nearby ordering code without a separate check.

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.

ADDITIONAL ENGINEERING CHECKS

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.

System role and architecture

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

APPLICATION POINTS

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.

INTEGRATION RECORD

Identity	Record the complete marking and installed position.
Mechanical interface	Confirm mounting, support, clearance and connector engagement.
Electrical interface	Confirm signal path, shield, common and receiving-channel assignment.
Configuration	Retain the controlled channel settings and acceptance criteria.
Functional result	Record the expected static value, dynamic response and system status.

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

ENGINEERING REVIEW 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.

Engineering checks and acceptance

PRODUCT 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.

RELEASE CHECKS

Exact identity	Product marking and intended system position agree.
Interface condition	Mounting, connectors, terminals and cable routing are secure.
Signal response	The expected static and dynamic behavior has been observed.
Protection state	Channel status, alarms and controlled bypass state are restored.

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

APPLICATION BOUNDARIES

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.

Technical questions and related models

MODEL-SPECIFIC 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.
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.

RELATED MODELS ON APTERPOWER

Bently Nevada 3300/47	Related product reference. Review the complete ordering string before selection.
Bently Nevada 3500/50E	Related product reference. Compare the required interface and system position.
Bently Nevada 3500/23E	Related product reference. Confirm the execution independently for the intended task.

DOCUMENT AND SELECTION RECORD

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.

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