

INDUSTRIAL AUTOMATION PRODUCT

3300/01-01-00

3300/01 Basic System Monitor

Bently Nevada 3300/01-01-00 is the basic System Monitor for an original 3300 machinery-protection rack. It supervises rack supplies and common control functions while distributing Keyphasor references to the installed monitors.

IDENTITY	VERIFIED VALUE
Manufacturer	Bently Nevada
System family	3300 Machinery Protection System
Part number	3300/01
Country	USA
HS code	8537101190

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Technical Specifications

Technical values below are limited to the named Bently Nevada product record.

PARAMETER	TECHNICAL VALUE
System monitor execution	3300/01-01
Serial interface	Not fitted
Keyphasor inputs	2
Power-up inhibit delay	2 +/- 1 s
+VRH rail	22.55 +/- 6.05 V DC
+VRL rail	11.22 +/- 3.09 V DC
+7.5 V rail	7.5 +/- 0.1 V DC
+5 V rail	5.00 +/- 0.05 V DC
+5 V reference	5.00 +/- 0.009 V DC
-7.5 V rail	-7.5 +/- 0.1 V DC
-VT, 24 V option	-23.75 +/- 0.45 V DC
-VT, 18 V option	-17.9 +/- 0.4 V DC
Keyphasor output, 24 V option	-23.2 to -24.2 V DC
Keyphasor output, 18 V option	-17.4 to -18.3 V DC
Keyphasor output protection	Short-circuit protected
Operating temperature	0 to +65 degC
Storage temperature	-40 to +85 degC
Relative humidity	95% non-condensing

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System Role and Architecture

Bently Nevada 3300/01-01-00 is the basic System Monitor for an original 3300 machinery-protection rack. It supervises rack supplies and common control functions while distributing Keyphasor references to the installed monitors.

FUNCTION 1

Supervises power and common status functions for the original 3300 rack

FUNCTION 2

Provides front-panel reset, trip-multiply and alarm-setpoint interaction

FUNCTION 3

Buffers two Keyphasor references for distribution to installed monitor channels

FUNCTION 4

Drives the rack OK relay from the combined condition of monitored system supplies

Matched system components

- original 3300 rack backplane
- 3300/10, 3300/11 or compatible power supply
- standard Power Input Module
- installed 3300 monitor modules

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	original 3300 rack backplane
Companion hardware	3300/10, 3300/11 or compatible power supply
Field connection	standard Power Input Module
Primary system function	Supervises power and common status functions for the original 3300 rack
Controlled acceptance duty	Original 3300 rack supervision

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Applications and Engineering Context

Original 3300 rack supervision

Supervises power and common status functions for the original 3300 rack

Keyphasor reference distribution

Provides front-panel reset, trip-multiply and alarm-setpoint interaction

Rack-wide alarm inhibit and reset

Buffers two Keyphasor references for distribution to installed monitor channels

Machine protection panel maintenance

Drives the rack OK relay from the combined condition of monitored system supplies

TECHNICAL NOTE

Match the -VT jumper to the installed 18 V or 24 V transducer supply before engaging 3300/01-01-00 in the rack. After replacement, verify Supplies OK, OK relay, Keyphasor buffering, Reset and Trip Multiply with the machine protection outputs controlled.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	3300/01-01-00 / 3300/01 recorded
Physical interface	original 3300 rack backplane
Companion check	3300/10, 3300/11 or compatible power supply
Functional proof	Supervises power and common status functions for the original 3300 rack
Application test	Original 3300 rack supervision

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Engineering Precautions

1

Verify the complete 3300/01-01-00 marking and original 3300 rack configuration before work.

2

Place connected shutdown and alarm circuits in the approved maintenance state.

3

Isolate rack power before disengaging the System Monitor from the backplane.

4

Record the -VT selection and match it to the installed rack power-supply execution.

5

Use ESD controls and protect the backplane, front-panel and Keyphasor connectors.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
3500/40M 176449-01	Four-channel Proximitor monitor	Open product page
3500/20 125744-02	Rack interface module	Open product page
3500/45 176449-04	Four-channel position monitor	Open product page
330130-045-00-00	3300 XL extension cable	Open product page

MANUFACTURER SOURCE RECORD

3300/01 System Monitor Operation Manual

80175-01

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