Bently Nevada 3300 Series Service Manual

3300/12-01-20-00

1. Description

Description

3. Product Information

Description

The 3300/12-01-20-00 ac Power Supply delivers reliable, regulated power for up to 12 monitors and their associated transducers. A second Power Supply in the same rack is never required.

The Power Supply is installed in the left-most location (position 1) in a 3300 rack, and converts 115 Vac or 220 Vac into dc voltages used by the monitors installed in the rack. The Power Supply is equipped with a line noise filter as standard.

Specifications

Inputs

Power:

95 to 125 Vac, single phase, 50 to 60 Hz, at 1.0 A maximum, or 190 to 250 Vac single phase, 50 to 60 Hz, at 0.5 A maximum. Field changeable via soldered jumper and replacement of external fuse.

Primary Power

Surge at Powerup:

26 A peak, or 12 A rms, for one cycle.

Fuse Rating, 95 to 125 Vac:

95 to 125 Vac: 1.5 A slow blow

190 to 250 Vac: 0.75 A slow blow

Outputs

Transducer Power (internal to rack):

User-programmable -24 Vdc, +0%, -2.5%; or -18 Vdc, +1%, -2%; transducer voltages are overload protected, per channel, on the individual monitor circuit boards.

OK Relay

Location:

Behind the Power Supply, at the Power Supply Input Module.

Type:

Single-pole, double-throw (SPDT).

Environmental

Sealing:

Hermetically-sealed.

Contact Ratings (resistive load):

5 A at 28 Vdc; 5 A at 120 Vac, 50/60 Hz; 3 A at 220 Vac, 50/60 Hz.

Ratings for systems requiring agency approval:

5 A at 28 Vdc; 5 A at 120 Vac, 50/60 Hz (30 Vac for ATEX).

Contact Life:

10,000 cycles minimum at rated load.

Operation:

normally energized.

Environmental Limits

Operating

Temperature:

0°C to +65°C (+32°F to +150°F).

Storage

Temperature:

-40°C to +85°C (-40°F to +185°F).

Relative

Humidity:

To 95%, noncondensing.

Ordering Information

ac Power Supply

3300/12-01-20-00

Option Descriptions

A: Input Voltage Option

0 1 = 95-125 Vac 50/60 Hz

Note: Input Voltage Option is field-changeable. Ordering information only determines how the unit is shipped from the factory.

B: Power Input Module Option

2 0= Standard

C: Agency Approval Option

0 0 =Not Required

Note: ATEX approval requires the monitor rack be installed in a weatherproof housing.