DAA-75 Series

Digital Audio Amplifiers

NOTIF by Honey

Voic

Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 07/29/13

GENERAL

The DAA-75 Series Amplifiers provide more 75 watts of audio for applications that are too large for the DAA-50 series amplifiers. Up to 32 DAA series amplifiers, can be connected to the DAL (digital audio loop) on one DVC Digital Voice Command unit. DAA-75 series amplifiers can be mixed with DAA-50 series amplifiers on the same DAL.

Each DAA-75 is capable of accessing and processing one of up to eight audio channels on the DVC audio loop, amplifying the signal, and distributing it via four Class B or two Class A outputs at 75 watts. DAA-75 amplifiers can store backup alarm and trouble messages, and provide an adjustable background music input. An optional Firefighter's telephone riser on the DAA-75 supports FFT communications with the controlling DVC. Each DAA incorporates a powerful digital signal processor, a 75 watt amplifier, built-in audio NAC outputs, and a chassis which mounts in a single row of either CAB-4 or EQ Series cabinets.

The DAA-75 does not charge batteries; therefore a separate listed charging power supply must be used in conjunction with the backup batteries.

FEATURES

- Listed to UL Standard 864, 9th edition.
- 75 W total output power at 25 VRMS
- Multiple versions provide connection options for twisted-pair wire, single-mode fiber, and multi-mode fiber media
- Two Class A high-level audio outputs; or alternately, four Class B outputs supported. Outputs dynamically share the 75 W - the total power can be dedicated to a single output if required.
- Audio output activation via network control-by-event equations resident within the DVC
- Two digital audio ports support Style 4 or 7 configurations.
- Auxiliary input for 12 Vp-p analog low-level audio.
- Auxiliary input for 1 VRMS, to be used for background music input, an interface with a telephone paging source, or other compatible audio sources. Audio levels can be adjusted by end user. Continuous supervision for active DAA output circuits.
- Programmable through ***VeriFire® Tools***.
- Up to two minutes of standard quality backup digital message storage (from a *VeriFire Tools* message library, or created by the installer) for use in the event of communication loss.
- Multiple DAA-75 can share batteries supported by a single charging power supply
- Isolated alarm bus input, to be used for backup activation of alarm messages when normal digital communication is lost
- Relay contacts that will activate on a trouble condition provide an option for redundant annunciation to a local panel

INSTALLATION

The DAA-75 arrives from the factory already installed on its chassis. The DAA-75 mounts in one tier of any CAB-4 Series cabinet; the DAA tier can be covered using a DP-1B dress panel, ordered separately. The DAA-75 may also be installed

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in one tier of an EQ series cabinet. No dress plate is used for EQ cabinet installations. DAA-75 series amplifiers (wire versions) may be installed in adjacent rows of a CAB-4 series cabinet for non-continuous duty applications (background music is a continuous-duty application). The EQ series cabinets supports DAA-75 series amplifiers (wire or fiber) installed in adjacent rows for continuous as well as non continuous duty applications.

SPECIFICATIONS

DAA-PS POWER SUPPLY BOARD

- AC power (TB1): 115 - 120 VAC, 60 Hz input, 4.5 A maximum; or for "E" versions, 220 - 240 VAC, 50/60 Hz input, 2.3 A maximum. Recommended wiring: 12 to 14 AWG (1.6 mm O.D.) with 600 VAC insulation
- Battery connections (TB3): Supplied cable connections to batteries.

DAA-7525 BOARDS

- Digital audio ports, wire media, A and B (TB2, TB3): Maximum distance per segment is 1900 feet (579.12 m) on Belden 5320UJ (18 AWG, TP) FPL cable: 18 AWG (0.821 mm²) twisted-pair, unshielded, power-limited. See wiring documentation, P/N 52916ADD: C Addendum to DVC and DAA Manuals. Electrically isolated ports support Style 4 or 7 wiring.
- Digital audio ports, "F" versions: Digital audio loop connectors A and B support multi-mode fiber. Maximum attenuation is 4.2 dB for multi-mode with 50/125 micrometer cable @ 850 nm; 8.0 dB for multi-mode with 62.5/125 micrometer cable @ 850 nm.
- Digital audio ports, "SF" versions: Digital audio loop connectors A and B support single-mode fiber. Maximum attenuation is 5.0 dB for single-mode with 9/125 micrometer cable @ 1300 nm.
- Alarm bus (TB4): Power-limited by source. Recommended wiring: 14 to 22 AWG (2.08 to 0.326 mm²) twisted-pair
- Trouble bus (TB5): Dry contact. Recommended wiring: 14 to 22 AWG (2.08 to 0.326 mm²) twisted-pair
- FFT riser (TB13): Power-limited output. Class A (Style Z) or Class B (Style Y) operation. Style Y two-wire connections require a 3.9K ohm, 1/2 watt resistor (P/N R-3.9K). Maximum wiring resistance (including individual telephone zone to last handset) permitted is 50 ohms, 10,000 feet (3048 m)

maximum wiring distance at 12 AWG (3.31 mm²) to last handset.

- Auxiliary input A (AUX A, TB9): Signal strength from low-level analog audio input: 1 VRMS maximum. Optional supervision (selected through programming). Recommended wiring: 18 to 22 AWG (0.821 to 0.326 mm²) twisted-pair. Auxiliary input must be in the same room as the DAA.
- Auxiliary input B (AUX B, TB8): Signal strength from low-level analog audio input: 12 Vp-p nominal, 15 Vp-p maximum. Optional supervision (selected through programming). Recommended wiring: 14 to 22 AWG (2.08 to 0.326 mm²) twisted-pair.
- Speaker circuits (TB10, TB11, TB12, and TB13): Power limited outputs. 75 watts dynamically shared among the four outputs. Supervision determined by programming. Recommended wiring: 14 to 22 AWG (2.08 to 0.326 mm²) twisted shielded pair.
- End-of-line resistors: For Class A: 10K ohm, 1/2 watt, P/N R-10K. For Class B: 20K ohm, 1/2 watt, P/N R-20K.

STANDARDS AND CODES

The DAA-75 Series Digital Audio Amplifiers comply with the following standards:

- NFPA 72 2002 National Fire Alarm Code.
- Underwriters Laboratories Standard UL 864, 9th Edition.
- Underwriters Laboratories of Canada (ULC) ULC-S527-99 Standard of Control Units for Fire Alarm Systems.
- Part 15 Class A of the conducted and radiated emissions as required by FCC.

LISTINGS AND APPROVALS

These listings and approvals apply to the basic DAA-75 Series Digital Audio Amplifiers. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- UL Listed: file S635.
- ULC Listed: file S635.
- FM Approved

PRODUCT LINE INFORM.

DAA-7525: Digital Audio Amplifier (7
bly with DAA-PS power supply board
chassis.

DAA-7525F: Digital Audio Amplifier (
mode fiber, assembly with DAA-PS
shipped mounted to its chassis.

DAA-7525SF: Digital Audio Amplifier
gle-mode fiber, assembly with DAA-I
shipped mounted to its chassis.

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220-240 VAC MODELS

DAA-7525E: Digital Audio Amplifier (75 W, 25 VRMS, 240 VAC), assembly with DAA-PS power supply board, shipped mounted to its chassis.

DAA-7525FE: Digital Audio Amplifier (75 W, 25 VRMS), multi-mode fiber, 240 VAC, assembly with DAA-PS power supply board, shipped mounted to its chassis.

DAA-7525SFE: Digital Audio Amplifier (75 W, 25 VRMS), single-mode fiber, 240 VAC, assembly with DAA-PS power supply board, shipped mounted to its chassis.

ACCESSORIES

DP-1B: Dress panel; covers one tier of CAB-4 Series cabinet.

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