GAI-TRONICS® CORPORATION
A HUBBELL COMPANY

Model 670-002
24 V DC Explosion-proof Speaker Station

General Information

This data sheet applies to the GAI-Tronics Model 670-002 24 V dc Explosion-proof Speaker Station, which provides safe and clear communications in hazardous areas, even in high-noise situations. This model is NRTL certified for use in the US and Canada for the following areas: Class I, Div. 1, Groups C and D; Class II, Div. 1, Groups E, F, and G; and Class III, Div. 1.

The Model 670-002 station enclosure is fabricated from cast aluminum and is suitable for indoor use. If the station is to be mounted outdoors, it should be housed in a GAI-Tronics Model 10444-003 Weatherproof Non-metallic Enclosure, which is rated NEMA-4X.

Specifications

Power input ..... 21–29 V dc; 1.2 A (optional negative ground or floating)
Dimensions ..... 13.1 H × 7.9 W × 5.6 D inches; (332 × 200 × 143 mm)
Temperature range ..... -22° F to +158° F (-30° C to +70° C)
Shipping weight ..... 27 lbs. (12.2 kg)

Speaker Amplifier

Output ..... @ 25 V dc: 12 watt minimum into 8- or 16-ohm load
Voltage gain ..... 20 dB minimum, adjustable
Frequency response ..... 250–4,000 Hz, +0/-3 dB ref @ 1 kHz
Distortion ..... 1% maximum THD @ 1 kHz/12 watt
Input impedance ..... 50,000 ohm, minimum @ 1 kHz
Controls ..... Speaker volume

Explosion-proof Enclosure

Material/finish ..... No. 359.2 aluminum alloy
Mounting ..... Wall or column, four 3/8-inch slotted mounting feet
Connections ..... Internal screw-type barrier terminal blocks
Conduit entries ..... Standard top: ¾-inch NPT
Standard bottom: 1.5-inches NPT
Optional bottom: 2-inch NPT

Approvals

NRTL certified for use in US and Canada for the following locations: ..... Class I, Div. 1, Groups C and D
Class II, Div. 1, Groups E, F, and G
Class III, Div. 1

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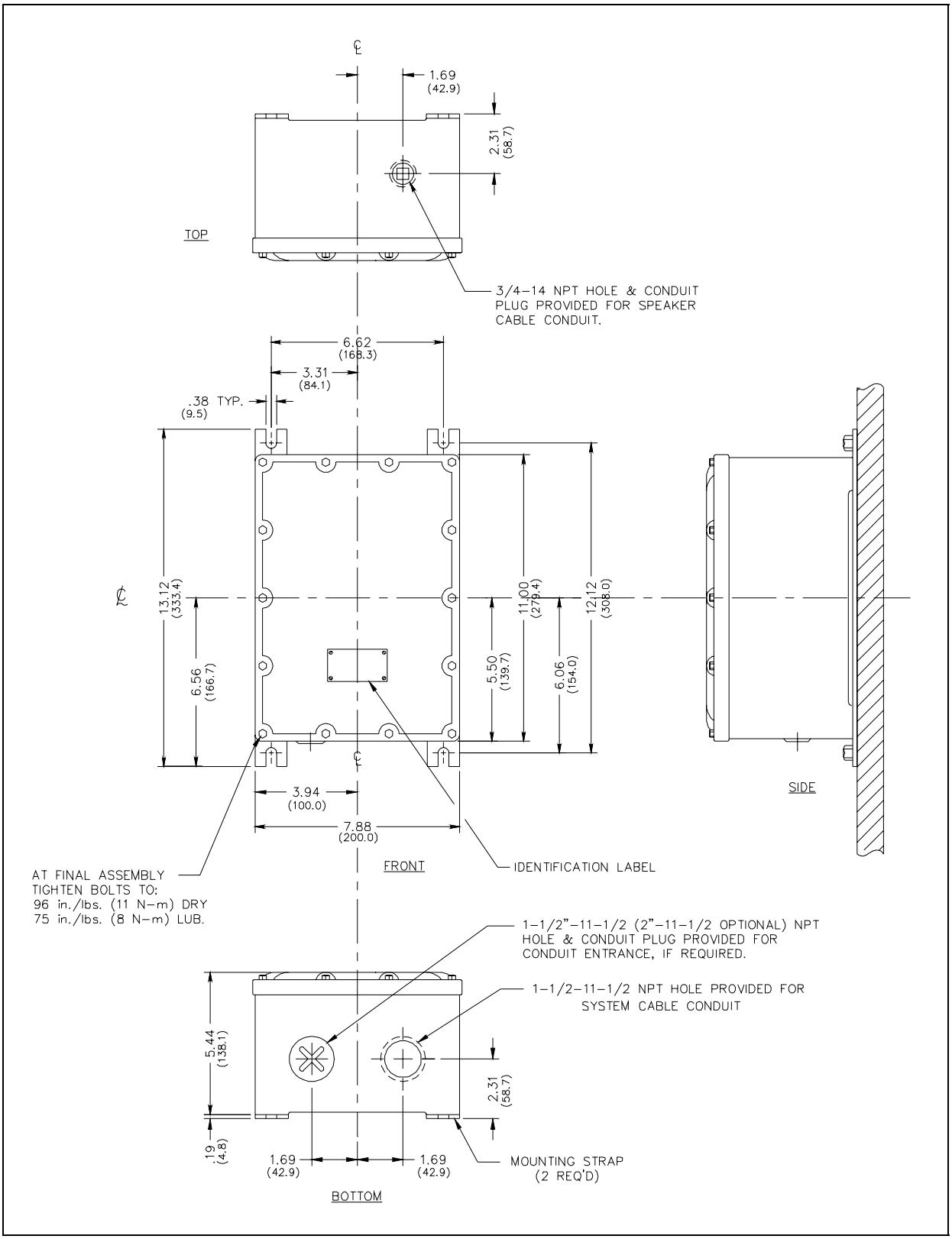

Figure 1. Model 670-002 Mounting Details