14x12x07 Fiberglass Reinf Polyester FRP Weatherproof Outdoor IP24 NEMA 3R Enclosure, PoE MNT PLT, Solid State Thermostat 48 VDC Fan Gray

NB141207-40FS

Features

- Molded Fiberglass Reinforced Polyester (FRP) industrial enclosure
- Stainless steel quick release latches with padlock hasps
- NEMA Type 3R / IP24 rated
- Fully gasketed raised vented lid with filters with integral mounting flange
- Features aluminum mounting plate with Power-Over-Ethernet (PoE) interface with CAT5 surge protection & solid state controlled cooling system

Applications

- Remote wireless LAN WiFi equipment installations using Power-Over-Ethernet
- Indoor and outdoor installations
- Rapid deployment installations
- Corrosive environments
- Hotspot

Description

The box is a rugged weatherproof enclosure that is ideal for both indoor and outdoor applications. Constructed from molded fiberglass reinforced polyester, it is well suited for high temperature or corrosive environments. The integrated mounting flange allows it to be mounted directly to any flat wall surface provided proper screws are used into secure studs.

The enclosure can be also be mounted to a wide diameter range of poles with one of our optional pole mounting hardware kits.

The raised lid features a stainless steel continuous hinge and stainless steel quick release latches with padlock hasps. Includes fully gasketed vented lid with filters & integral mounting flange. The enclosure material is UV stabilized and comes in machine tool gray.

Mounting Plate

The aluminum mounting plate included with the NB141207-40FS features a CAT5 PoE interface that feeds power to the enclosure fan and power plus data to the internal network equipment. The enclosure is not 802.3af/at/bt PoE compatible. It requires one of our 48 Volt DC PoE Midspan injectors to supply power. The interface includes lightning protection and support for normal and reverse polarity PoE equipment. The enclosure also features holes for two N-Bulkhead lightning protectors or connectors, a grounding lug, and a cable conduit connector.

Cooling

To help ensure trouble-free operation of electronic equipment, proper operating temperatures inside an enclosure need to be controlled.

With the built-in cooling fan, internal temperatures can be better maintained. This model is ideal in hot environments. The fans are controlled by an integral high current solid state AC relay. The relay features Zero Cross Detection for EMI reduction.

For cooling the NB141207-40FS model includes our exclusive solid state temperature controller connected to a 5.3W fan. The high airflow, low noise fan used allows warm air to be actively pushed out the top vent while the lower vent passively pulls in outside air into the enclosure. Filters for both ports prevent foreign objects or debris from entering the enclosure. The

controller features improved temperature set point accuracy. The fan turns on when the internal temperature rises to 90° F (32° C) ±5° and turns off at 81° F (27° C) ±5°. No extra room for the controller is required since it is mounted underneath the plate.

The HGX-PMT series of pole mounting kits allow the populated enclosure to be securely mounted to a variety of different size poles.

Compatible versions include HGX-PMT13, HGX-PMT16, HGX-PMT28, HGX-PMT29, HGX-PMT30 & HGX-PMT33

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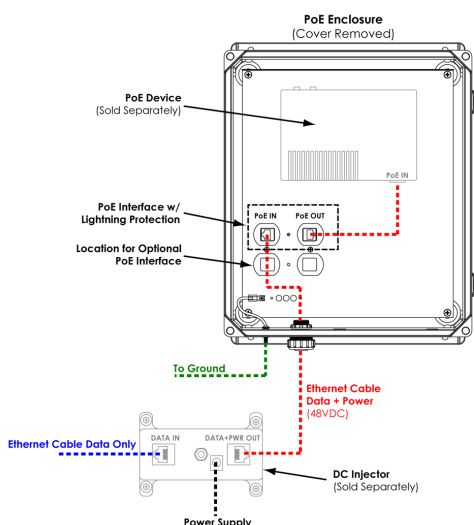
NB141207-40FS

Mechanical Specifications

Size

Outer Height	15.5 in	[393.7 mm]
Outer Width	13.32 in	[338.33 mm]
Outer Depth	8.26 in	[209.8 mm]
Inner Height	14 in	[355.6 mm]
Inner Width Inner	12 in	[304.8 mm]
Depth	7.95 in	[201.93 mm]
Weight	12.28 lbs	[5.57 kg]
Enclosure Material	Fiberglass Reinforced Polyester (FRP)	

Environmental Specifications

NEMA Rating	3R
Ingress Protection (IP) Rating	IP24
Temperature Continuous	-50 to +150ºC

Compliance Certifications

UL Listed	No

PoE Enclosure (Cover Removed)

PoE Device (Sold Separately)

PoE IN

PoE Interface w/ Lightning Protection

PoE IN   PoE OUT

Location for Optional PoE Interface

To Ground

Ethernet Cable Data + Power (48VDC)

Ethernet Cable Data Only

DATA IN   DATA+PWR OUT

DC Injector (Sold Separately)

Power Supply

14x12x07 Fiberglass Reinf Polyester FRP Weatherproof Outdoor IP24 NEMA 3R Enclosure, PoE MNT PLT, Solid State Thermostat 48 VDC Fan Gray from L-com has same day shipment for domestic and International orders. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning and surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active components.

URL: https://www.l-com.com/nema-enclosures-14x12x7-inch-weatherproof-enclosure-with-poe-interface-and-solid-state-fan-controller-p.aspx

NB141207-40FS CAD Drawing

14x12x07 Fiberglass Reinf Polyester FRP Weatherproof Outdoor IP24 NEMA 3R
Enclosure, PoE MNT PLT, Solid State Thermostat 48 VDC Fan Gray

14.75 [374.7] MOUNTING HOLES

316 SS PADLOCKABLE LATCHES
Ø.375 PADLOCK EYE

DETAIL "A"

.578 [14.68]

.625 [15.88]

4X Ø.32 [8] MOUNTING HOLES

14.75 [374.6]
13.81 [350.8]

HIDDEN LINES REPRESENT COMPONENTS ON BACK OF PLATE - DO NOT DRILL -

12.75 [323.8]
11.81 [300]
10.00 [254]

15.31 [389]

304 SS PIANO HINGE

1/2" CONDUIT CONNECTOR

SEE DETAIL "A" (2X)

4.45 [113.1]

10.25 [260.3]
8.58 [217.9]
3.80 [96.5]
1.75 [44.5]
0
1.75 [44.5]

13.31 [338.2]
.83 [21.1]

GROUND LUG
0

3.25 [82.5]

2.38 [60.5]

5.73 [145.5]
4.25 [107.9] (2X)
3.50 [88.9] (2X)

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5
SCALE NONE
SHEET 1 OF 1
REV D

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE IN INCHES DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:
X = ± 2 [5]   FRACTIONS ± 1/32
.XX = ± .02 [0.5]   ANGLES ± 1°
.XXX = ± .005 [0.13]

CABLE LENGTH TOLERANCES:
≤12 [305] = +1 [25] / -0
>12 [305] ≤ 60 [1524] = +2 [51] / -0
>60 [1524] ≤ 120 [3048] = +4 [102] / -0
>120 [3048] ≤ 300 [7620] = +6 [152] / -0
>300 [7620] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE. UN-DIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION
COLORS MAY VARY

REVISION

ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	D	UPDATED PER ECO-14853	10/23/2025	Admin	MMARTINEZ

LC DS Rev-DA A size

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