18x16x10 Polycarbonate Weatherproof Outdoor IP24 NEMA 3R Enclosure, 120VAC Mount Plate Solid State Thermostat Heat & Fan Dark Gray

NEMA Enclosures Technical Data Sheet   NBPC181610-1HFS

Features

- High-Impact, UV Resistant Polycarbonate (Dark Gray)
- Stainless steel latches with padlock eye
- NEMA Type 3R / IP24 rated
- Fully gasketed vented lid with filters & user installed wall mounting brackets

- Features aluminum mounting plate with surge protected duplex 120 VAC outlets & solid state thermostat controlled heating & cooling system

Applications

- Remote Wireless LAN WiFi equipment installations
- Indoor and outdoor installations
- Rapid Deployment Installations

- Corrosive environments & hotspot applications
- Protection of equipment from theft or damage

Description

The box is a rugged weatherproof enclosure that is ideal for both indoor and outdoor applications. Constructed from High-Impact, UV Resistant Polycarbonate material that provides superior durability to impacts and ease of modification while maintaining minimum weight. It is well suited for high temperature or corrosive environments. The lid includes two vents with installed rain guards and filters. The included wall mount brackets come uninstalled and bagged with their hardware inside of the enclosure. Once the brackets are installed the enclosure can be mounted directly to any flat wall surface provided proper screws are used into secure studs. The brackets, once installed, also allow you to use our HGX-PMT pole mount kits. The lid features a non-metallic hinge system that allows for quick removal & can be reattached just as quickly without the need for any tools. The enclosure comes with a pair of stainless-steel latches with padlock eyes allowing you to secure the enclosure from tampering. The enclosure comes in a Dark Gray (Pantone 422C)

Mounting Plate

The aluminum mounting plate included with the NBPC181610-1HFS features standard surge protected duplex 120 VAC outlets and a terminal block for easy hook up to externally provided line power. The enclosure also features holes for two N-Bulkhead lightning protectors or connectors, a grounding lug and cable conduit connector.

Heating & Cooling

To help ensure trouble-free operation of electronic equipment, proper operating temperatures inside an enclosure need to be controlled. With the built-in heaters & dual cooling fans, internal temperatures can be better maintained. This model is ideal in hot and/or cold environments. The heaters & fans are controlled by an integral high current solid state AC relays. The relays features Zero Cross Detection for EMI reduction.

For Heating the NBPC181610-1HFS includes L-com's exclusive solid state temperature controller that utilizes dual 200W (400W total) heaters. The controller features improved temperature set point accuracy. The heaters turn on when the internal temperature drops to 16° F (-9° C) ±5° and turns off when the temperature hits 25° F (-4° C) ±5°. The heaters do not require the use of any of the AC outlets, leaving them all available for your equipment. No extra room for the heaters is required since they are mounted underneath the plate.

For Cooling the NBPC181610-1HFS includes our exclusive solid state temperature controller connected to dual 16.4W (32.8W total) fans. The high airflow, low noise fans used allow warm air to be actively pushed out the top vent while the second fan on the lower vent actively 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 fans turn on when the internal temperature rises to 93° F (34° C) ±5° and turn off at 84° F (29° C) ±5°. Like the heaters, the cooling fans do not require the use of any of the AC outlets, leaving them all available for your equipment.

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

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 18x16x10 Polycarbonate Weatherproof Outdoor IP24 NEMA 3R Enclosure, 120VAC Mount Plate Solid State Thermostat Heat & Fan Dark Gray NBPC181610-1HFS

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NEMA Enclosures Technical Data Sheet

NBPC181610-1HFS

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

Size

Outer Height	18.9 in	[480.06 mm]
Outer Width	16.8 in	[426.72 mm]
Outer Depth	11.3 in	[287.02 mm]
Inner Height	18.2 in	[462.28 mm]
Inner Width	16.2 in	[411.48 mm]
Inner Depth	9.7 in	[246.38 mm]
Weight	19 lbs	[8.62 kg]
Enclosure Material	Polycarbonate	

Environmental Specifications

Temperature Rating	-40° to 265° F [-40° to 129° C]
NEMA Rating	3R
Ingress Protection (IP) Rating	IP24

Compliance Certifications
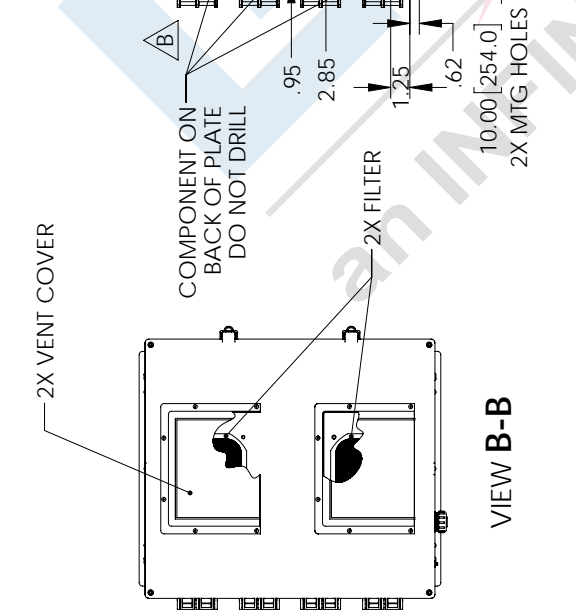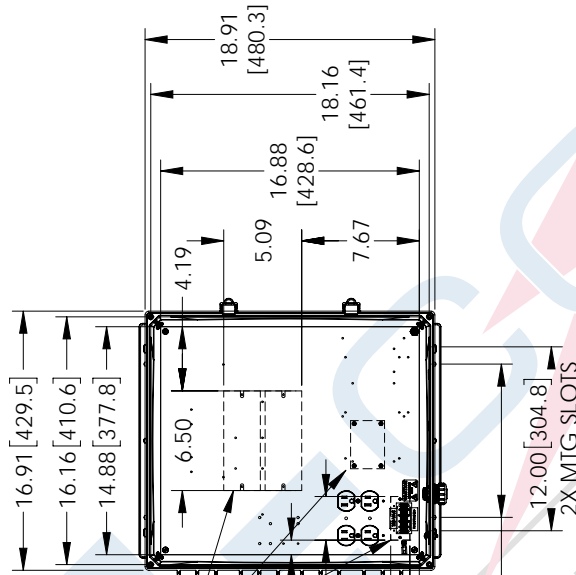
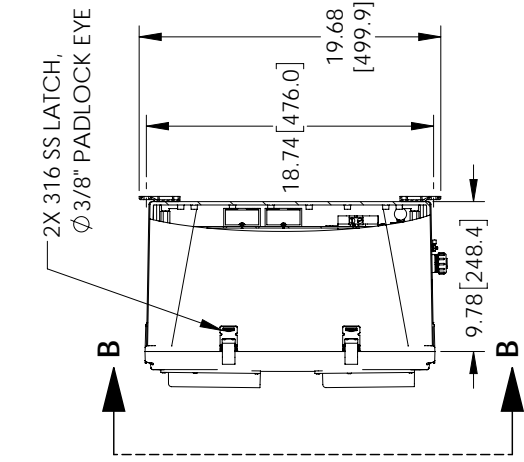|	
UL Listed	No

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URL: https://www.l-com.com/Undefined URL for PN NBPC181610-1HFS-p.aspx

NBPC181610-1HFS CAD Drawing

18x16x10 Polycarbonate Weatherproof Outdoor IP24 NEMA 3R Enclosure, 120VAC Mount Plate Solid State Thermostat Heat & Fan Dark Gray

REVISIONS

REV.	DESCRIPTION	DATE	APPROVED
B	ECN 10162	10/16/2019	BGATES

2X 316 SS LATCH, Ø 3/8" PADLOCK EYE

19.68 [499.9]
18.74 [476.0]
9.78 [248.4]

B

2X FAN
2X HEATER
SECTION C-C

18.91 [480.3]
18.16 [461.4]
16.88 [428.6]
5.09
7.67
4.19
16.91 [429.5]
16.16 [410.6]
14.88 [377.8]
.6.50.
12.00 [304.8]
2X MTG SLOTS
.95
2.85
1.25
.62
10.00 [254.0]
2X MTG HOLES
LID NOT SHOWN IN THIS VIEW FOR CLARITY

COMPONENT ON BACK OF PLATE DO NOT DRILL

2X VENT COVER
2X FILTER

VIEW B-B

1/2" CONDUIT CONNECTOR
12.47 [316.8]
11.30 [287.0]
10.12 [257.0]
5.74 [145.7]
4.38 [111.1]
3.38 [85.7]
0
GROUND LUG

11.96 [303.7]
8.62 [218.9]
4.19 [106.3]
1.44 [36.5]
0

A
C — C

Ø .63 [15.9]
.58 [14.7]

DETAIL A
2 PLACES

THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE	N/A
REV	B

PART NUMBER: NBPC181610-1HFS

L-com®
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50 High Street, West Mill, 3rd Floor, Suite #30
North Andover, MA 01845 USA.
Phone: 1.800.341.5266 | 1.978.682.6936
Fax: 1.978.689.9484
www.L-com.com | e-mail: CustomerService@L-com.com

SIZE	CAGE CODE	DRAWN BY
A	43321	DZINN

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

TOLERANCES:
.X = ± .2 [5.08]   FRACTIONS
.XX = ± .02 [.51]   ± 1/32
.XXX = ± .005 [.13]   ANGLES ± 1°

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

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

REGULATORY COMPLIANCE:
EU RoHS DIRECTIVE (MOST RECENT RELEASED VERSION)

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