

PROJECT:

AT&T mmWave

JDE PROJECT NUMBER:

665289

SITE CASCADE:

CRAN_RCTB_00004_05

SITE TYPE:

STREETLIGHT POLE

SCU:

493175

DRAWING DESCRIPTION:

PERMIT DRAWING

SH#

A-1 A-2

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1'' = 400'AREA MAP

1" = 200' LOCATION MAP

PROJECT EQUIPMENT

DRAWING INDEX

SHEET DESCRIPTION

PHOTOGRAPHIC SIMULATION FOUNDATION DESIGN DETAIL
RF PLUMBING DIAGRAM

POWER AND FIBER DIAGRAM

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5G EQUIPMENT SPECIFICATIONS - PAGE 2

TITLE SHEET

PROFILE

OVERALL SITE PLAN

NEW CROWN CASTLE INSTALLED EQUIPMENT

- · · (2) ERICSSON AIR12818257 AC VERSION
- · (1) RSD-DMC-X10MS-21NN

APPLICABLE CODE

- ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY LOCAL GOVERNING AUTHORITIES, NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES
- INTERNATIONAL BUILDING CODE
- 2. INTERNATIONAL MECHANICAL CODE 3. ANSI / TIA-222 STRUCTURAL STANDARD
- 4. NFPA 780 LIGHTING PROTECTION CODE
- 5. UNIFORM PLUMBING CODE
- 6. NATIONAL ELECTRICAL CODE
- 7. 2017 NATIONAL ELECTRICAL SAFETY CODE

KNOW WHAT'S BELOW CALL BEFORE

CALL 811 OR 1-888-DIG-SAFE

THE UTILITIES AS SHOWN ON THIS SET OF DRAWINGS WERE DEVELOPED FROM THE INFORMATION AVAILABLE. THE INFORMATION PROVIDED IS NOT IMPLIED NOR INTENDED TO BE THE COMPLETE INVENTORY OF UTILITIES IN THIS AREA. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES (WHETHER SHOWN OR NOT) AND PROTECT SAID UTILITIES FROM ANY DAMAGE CAUSED BY CONTRACTORS ACTIVITIES.

- PLANS PREPARED FOR: **CROWN CASTLE**

- PLANS PREPARED BY:

M MAVERICK

1 Westinghouse Plaza, Suite D6, Boston,Massachusetts, 02136 +1 617-361-6700

IFOR PERMITTING **PURPOSES ONLY**

- ENGINEERING SEAL:

- DRAWING NOTICE:

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44 BROMFIELD ST, BOSTON, MA 02108, USA

- SHEET DESCRIPTION:

TITLE SHEET

- SHEET NUMBER: -

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SUBCONTRACTOR SHALL VERIFY ALL PLANS, EXISTING

DIMENSIONS & FIELD CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

DO NOT SCALE DRAWINGS

PROJECT TEAM

SITE INFORMATION

<u>LATITUDE:</u> 42°21'25,36"N

LONGITUDE: 71° 3'41.54"W

ZONING DISTRICT: GOVERNMENT CENTER/MARKETS

POWER COMPANY EVERSOURCE

BACKHAUL PROVIDER:

CROWN CASTLE FIBER

CROWN CASTLE PROJECT MANAGER:

NAME: DEIVIDAS KAVALIAUSKAS

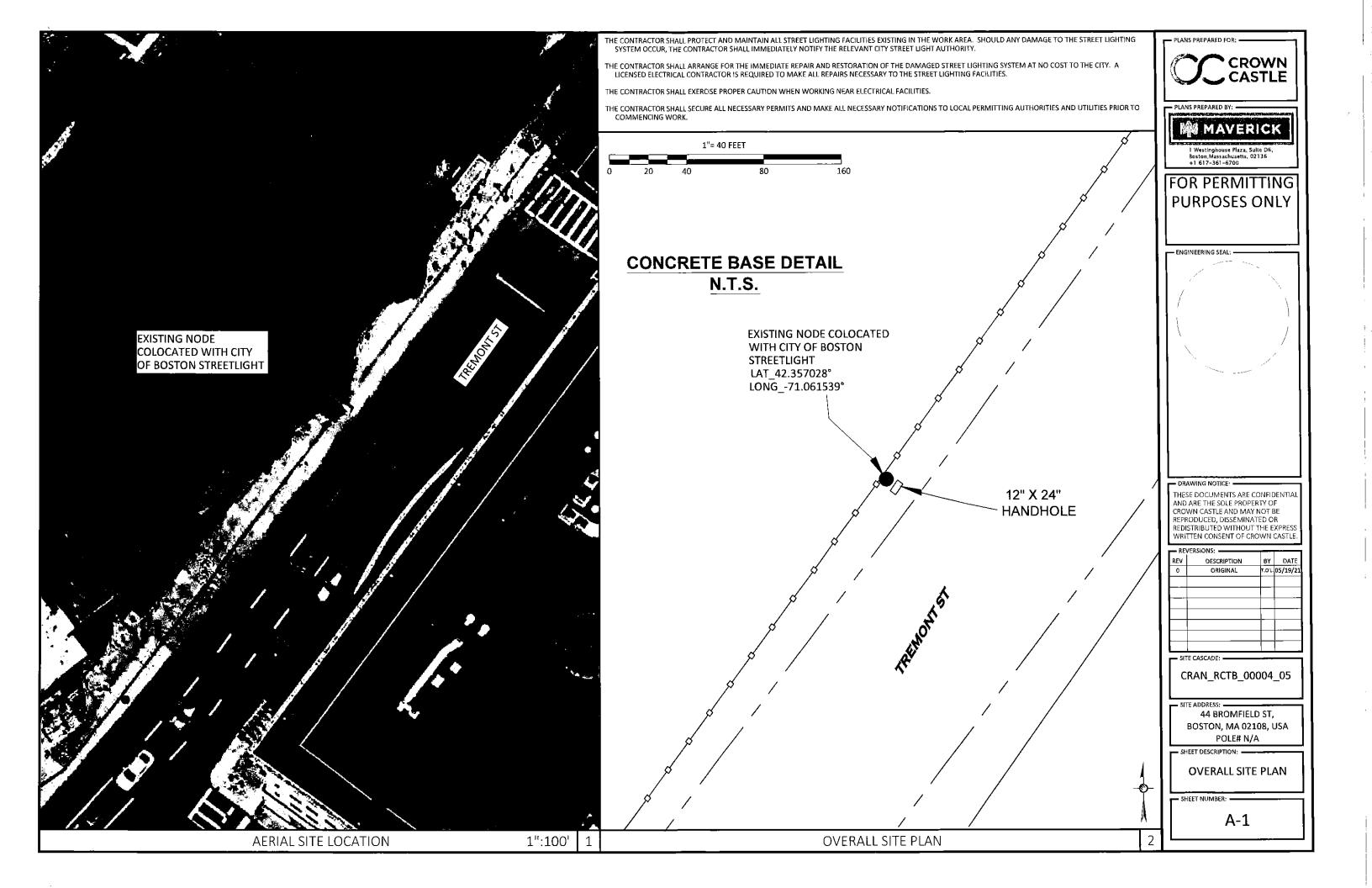
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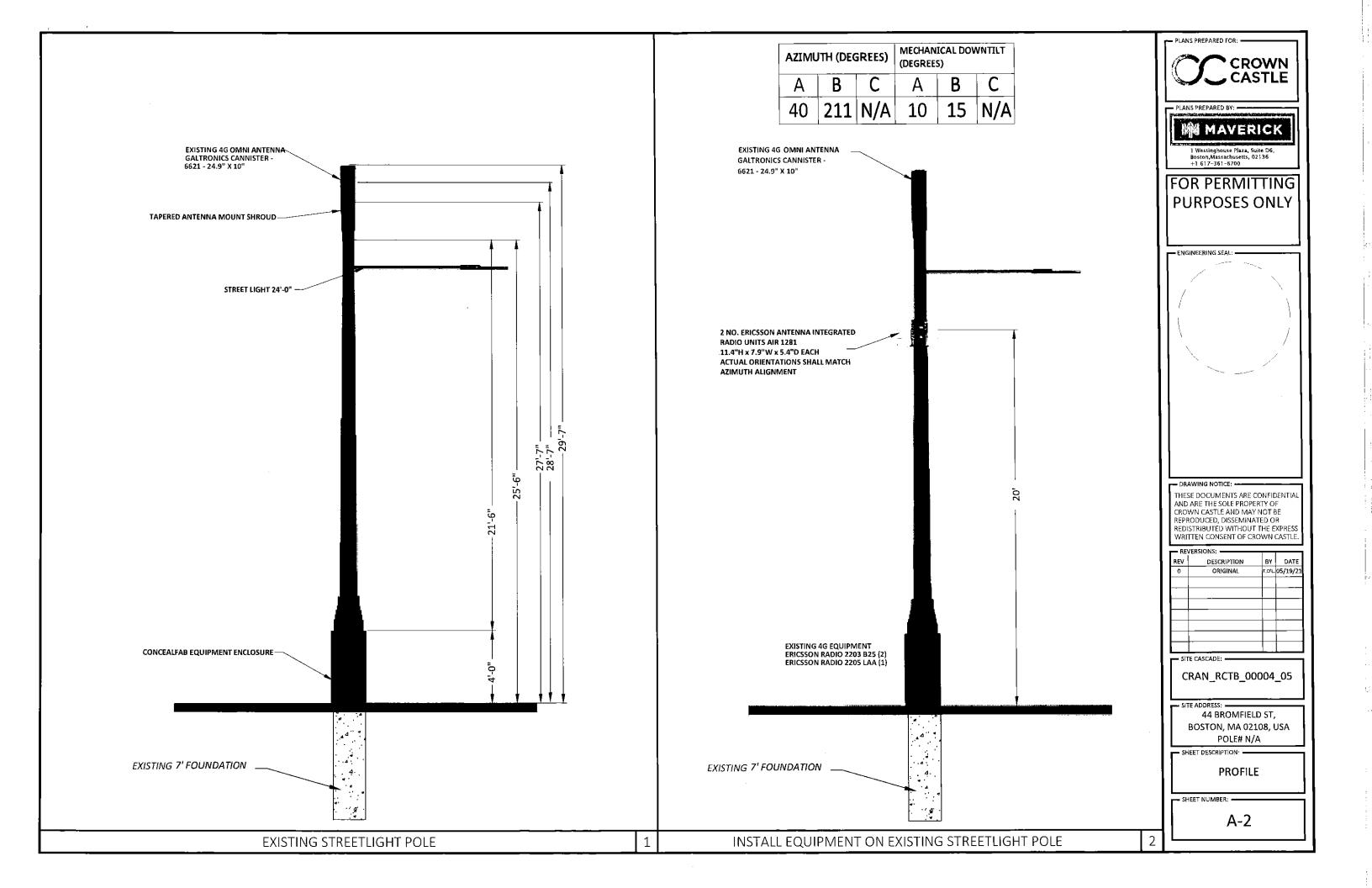
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42.357028°

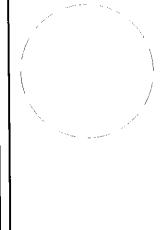
- SITE CASCADE: -

POLE# N/A

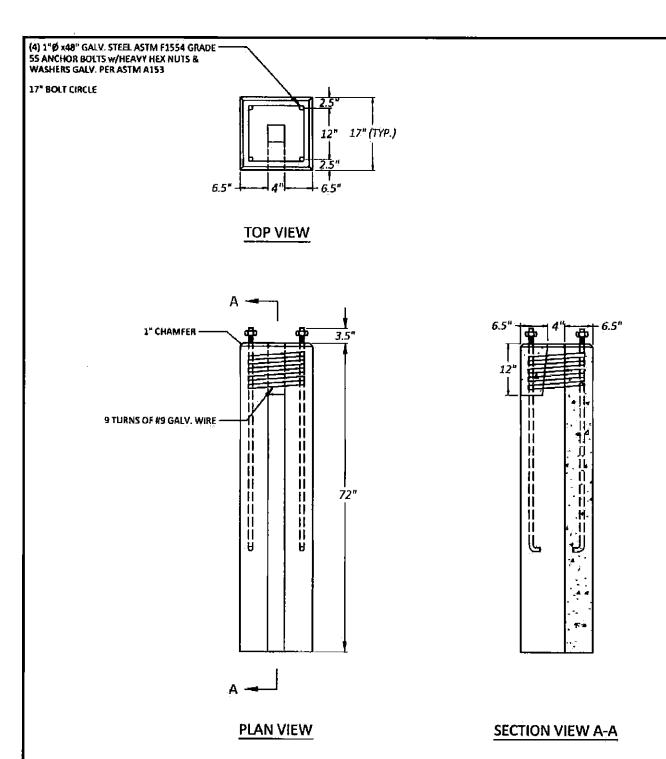








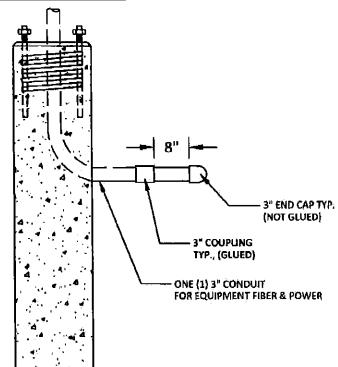
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PRECAST SPECIALTIES CORP. 17" X 72"SQUARE POLE BASE SCALE: 1" = 2'

FOUNDATION NOTE:

PROPOSED FOUNDATION DETAILS PROVIDED BY CROWN CASTLE AND ENGINEERED/STAMPED BY OTHERS

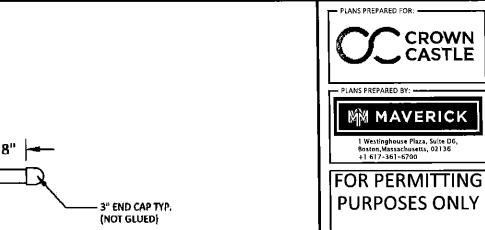


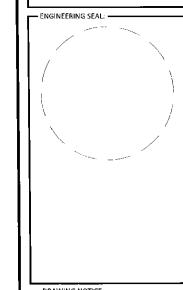
CONDUIT ELEVATION DETAIL

SCALE: 1" = 2"

CONDUIT NOTES:

- 1. FIBER AND POWER CONDUIT ORIENTATION/DIRECTION SHOWN IS FOR PICTORIAL REFERENCE ONLY. PLEASE CONTACT THE CROWN CASTLE FIBER CONSTRUCTION ENGINEER (FCE) FOR ACTUAL ORIENTATION/DIRECTION PRIOR TO CONSTRUCTION.
- POLE FOUNDATION/CONDUIT INSTALLER TO ADD A 3"-PVC COUPLING, MINIMUM 8"-LONG SECTION OF 3"-PVC PIPE, AND 3"-PVC PIPE CAP (CAP NOT TO BE GLUED/CEMENTED) OR OTHER MEANS TO EACH SWEEP ELBOW COMING OF OF THE FOUNDATION BELOW GROUND LEVEL AND TO EXTEND PAST CONCRETE FOUNDATION TO INSURE NO CONCRETE RE-ENTERS THE PIPE **EXTENSION OR SWEEP ELBOW.**
- POLE FOUNDATION/CONDUIT INSTALLER TO PLACE MULE/PULL TAPE IN ALL
- 4. ALL CONDUIT SHALL BE PLACED UP AND THROUGH CENTER/INTERIOR OF POLE (NOT EXTERIOR) UNLESS OTHERWISE SPECIFIED.





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59 BAY STATE RD, BOSTON, MA 02215, USA

FOUNDATION DESIGN DETAIL

A-4

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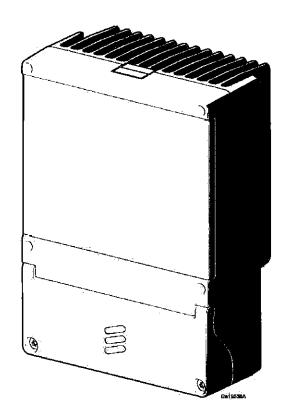


Antenna Integrated Radio Unit Description

AIR 1281

Description

grant and grant grant grant was



Physical Characteristics

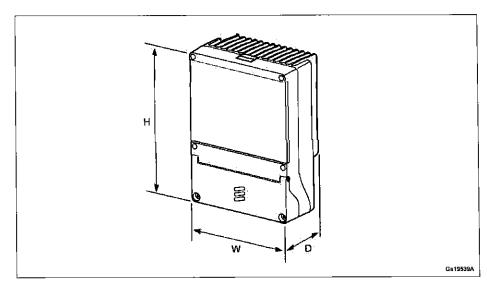


Figure 2 Dimensions

Table 3 Dimensions

| AIR Unit Type | Height (H) | Width (W) | Depth (D) |
|--------------------------------|------------|-----------|-----------|
| AIR 1281 B257 AC version | 290 mm | 200 mm | 136 mm |

AIR Unit Weight with and without Installation Kit

| AIR Unit | Unit | Mounting Kit Weight | | | |
|--------------------------------|---------------|---------------------|-------------------|-------------------|-------------------|
| Туре | Weight | SXK 109 2157/1 | SXK 109 2157/2 | SXK 109 2157/3 | SXK 109 2157/4 |
| AIR 1281 B257 AC version | 7.5 kg ±5% | 3.2 kg | 2.3 kg | 2.0 kg | 0.9 kg |

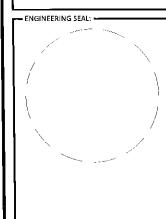
The whole body of the AIR Unit including the radome is gray, and the color code is NCS S 1002-B and MZY 510 25/1108.



PLANS PREPARED BY:



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site address: ______ 44 BROMFIELD ST, BOSTON, MA 02108, USA

POLE# N/A

5G EQUIPMENT SPECIFICATIONS - PAGE 1

- SHEET NUMBER: -

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Installation

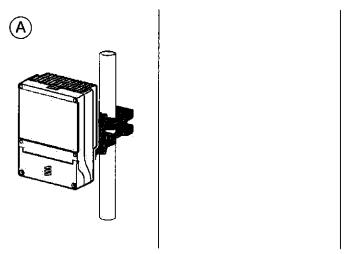


Figure 3 Installation Method Alternatives

Table 5 Key to Installation Alternatives

| Installation Method | Description |
|---------------------|--|
| A | Pole installation (pole with circular, square, or 90° angle cross section) |

Table 6 Pole Mounting Range

| Pole | Circular | Square | 90° Angle |
|-------------------------|----------|------------|------------|
| Minimum outer dimension | Ø35 mm | 30 x 30 mm | 45 x 45 mm |
| Maximum outer dimension | Ø114 mm | 80 x 80 mm | 80 x 80 mm |

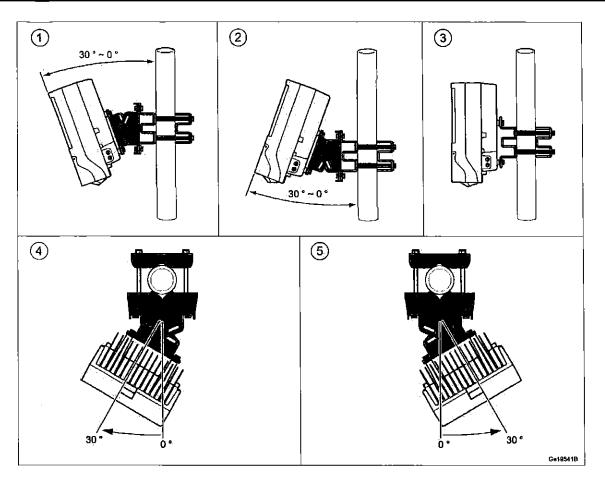


Figure 4 Tilt and Swivel Angle

AC Power Characteristics

Table 9 Radio AC Power Supply Requirements

| Conditions | Values and Ranges | |
|-----------------------------------|-----------------------------------|--|
| Nominal Voltage | 100-250 V AC | |
| Voltage Range including tolerance | 85–275 V AC | |
| Connection | Line-Neutral, Line-Line | |
| Frequency range | 45-65 Hz | |
| Voltage harmonics | < 10% at full load ⁽¹⁾ | |
| Shut-off allowance | At undervoltage or overvoltage | |
| Inrush current peak | < 10 A | |
| Inrush current duration | < 100 ms | |
| AC system | TN, TT and IT | |

(1) Must comply with IEC 61000-3-2

Fuse and Circuit Breaker Recommendations

The recommended fuse and circuit breaker rating is 6 A.

The recommended melting fuse type is am-gL-gG, according to IEC 60269-1. Circuit breakers must comply with at least Curve 3 tripping characteristics, according to IEC 60947-2.

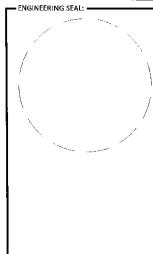
When the radio connected Line-Line a 2-pole circuit breaker or dual fuses are required for interruption of both lines. This is also valid when the radio is used in an IT system.



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DESCRIPTION

- SITE CASCADE: -CRAN_RCTB_00004_05

__ SITE ADDRESS: __

44 BROMFIELD ST, BOSTON, MA 02108, USA POLE# N/A

SHEET DESCRIPTION: -

5G EQUIPMENT SPECIFICATIONS - PAGE 2

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