



NOTES

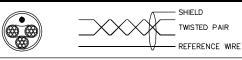
NEVER RUN NETWORK CABLING CLOSER THAN 5 FEET TO A VARIABLE FREQUENCY DRIVE (VFD) EXCEPT AT THE POINT WHERE THE NETWORK MUST CONNECT TO THE VFD. NETWORK ENTRY INTO A VFD MUST BE THROUGH A SEPARATE CONDUIT AND ALL NETWORK WIRING MUST BE KEPT AS FAR AS POSSIBLE FROM HIGH POWER CABLING IN THE VFD DRIVE.

NEVER RUN NETWORK CABLE CLOSER THAN 5 FEET TO CONDUITS CARRYING 100KVA OR GREATER. ALWAYS CROSS HIGH POWER CABLES (AT A DISTANCE OF >= 5 FEET) AT A 90 DEGREE ANGLE.

NETWORK RUN IN OPEN CABLE TRAYS WITH CIRCUITS CARRYING 20 AMPS SHOULD BE KEPT AT LEAST 26 INCHES FROM THE HIGHER POWER CABLES.

NETWORK RUN IN ENCLOSED TRAYS WITH CONDUITS CARRYING OVER 20 AMPS SHOULD BE KEPT AT LEAST 18 INCHES FROM THE HIGHER POWER CABLES.

FLN 1.5 PAIR CABLE SPECIFICATIONS



TWISTED PAIR

24 AWG (STRANDED)

11 PICOFÀRAD/FT CAPACITANCE OR LESS (CONDUCTOR TO CONDUCTOR)
24 PICOFARAD/FT CAPACITANCE OR LESS (CONDUCTOR TO SHIELD)
4 TWISTS PER FOOT

REFERENCE WIRE

24 AWG (STRANDED) 3 INCH LAY WITH TWISTED PAIR

SHIELD

100% OVERALL FOIL WITH DRAIN WIRE

PART NUMBERS

<u>ANNIXTER</u>

PART NUMBER: H-F-1.5TSP24LC-CMP

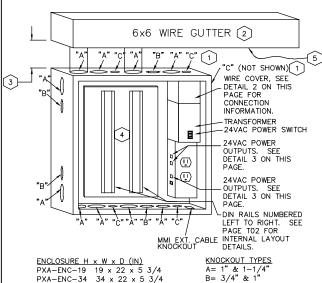
DESCRIPTION: 24-1.5PR STR TC FFEP FT6 SHD YEL/BLU (FT-6)

CERCO

PART NUMBER: 8304R

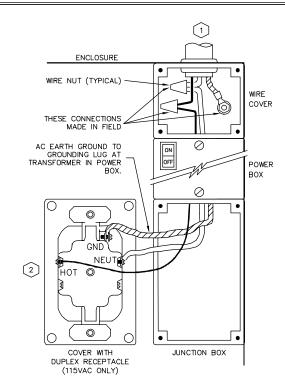
DESCRIPTION: 22AWG 3C STR FT6 ORG (FT-6)

REVISION HISTORY	SIEMENS	SUITE 180 AUSTIN, TX 78758 USA ENS INDUSTRY, INC. PHONE	CERILLIANT ROUND ROCK, TX	44OP224837 0
	SIEMENS INDUSTRY, INC. BT DIVISION		LSB LSB DB INITIAL RELEASE LAST EDIT DATE LSB LSB DB 10/12/17 10/11/17 BACNET MS/TP NETWORK 1.5 PAIR	MSTP



NOTES:

- PENETRATIONS FOR 120/240V SERVICE BOX POWER. THIS CLASS 1 WIRING SHALL BE PROVIDED IN A SEPARATE RACEWAY FROM CLASS 2 LOW VOLTAGE WRE.
- GUTTER FOR LOW VOLTAGE CLASS 2 WRING ONLY. PROVIDE SEPARATE RACEWAY FOR ALL CLASS 1 WIRING.
- MINIMUM OF 2" AND MAXIMUM OF 6" BETWEEN GUTTER AND ENCLOSURE.
- WHEN PULLING POINT WIRES INTO THE PANEL USE THE FOLLOWING PROCEDURE IN ORDER TO MAINTAIN EXTRA WRE LENGTH NECESSARY TO MOVE WIRES ANYWHERE IN THE PANEL AFTER INITIAL TERMINATION.
 - 1. INSTALL A J HOOK ON RIGHT SIDE OF GUTTER.
 - 2. PULL ALL POINT WIRES THROUGH THE J HOOK BEFORE ROUTING WIRES INTO CONTROL PANEL.
 - 3. WHEN ALL POINT WIRES HAVE BEEN TERMINATED, REMOVE THE J HOOK AND WIRE TIE THE BUNDLE OF WIRES TOGETHER.
 - 4. SECURE WIRE BUNDLE IN GUTTER.
- EXTEND GUTTER OVER LENGTH OF ALL CONTROL CABINETS AND TRANSFORMER PANELS.

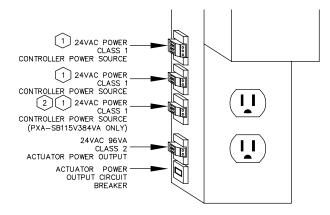


NOTES:

- A 3-WIRE 115V, 15A CIRCUIT SHALL NOT SERVE MORE THAN 1300VA OF TRANSFORMERS AND EQUIPMENT. EXAMPLE: TWO PXA-SB115V384VA (384VA) SERVICE BOXES AND ONE PSH500 TRANSFORMER (500VA) EQUAL A LOAD OF 1268VA.
- RECEPTACLE IS PRE-WRED AND MOUNTED IN FACTORY, FOR PXA-SB115V192VA AND PXA-SB115V384VA SERVICE BOX ONLY. MAXIMUM RECEPTACLE LOAD IS 220 VA.



C = 1/2" & 3/4"



NOTES:

- POWER OUTPUT FROM THESE
 TERMINALS ARE CLASS 1 AND
 REQUIRE A SEPARATE RACEWAY
 FROM ALL CLASS 2 WRING IF
 WIRING IS ROUTED OUTSIDE OF
 CABINET ENCLOSURE.
- PXA-SB115V384VA MODEL ONLY.

SERVICE BOX MAX POWER SOURCE REQUIREMENTS

SERVICE BOX	VOLTAGE TOLERANCE	CURRENT MAXIMUM
PXA-SB115V192VA (384VA)	102 - 132 VAC @ 60Hz +/- 5%, FROM 15 OR 20	2 AMP
PXA-SB115V384VA (384VA)	AMP CIRCUIT BREAKER.	4 AMP
PXA-SB230V192 (384VA)	204-264 @ 60Hz +/- 5%, FROM 10 AMP CIRCUIT	1 AMP
PXA-SB230V384 (384VA)	BREAKER.	2 AMP

2 SERVICE BOX SERVICE CONNECTION PXCM1

SERVICE BOX 24VAC OUTPUT WIRING

REVISION HISTORY

SIEMENS

BT DIVISION

SIEMENS INDUSTRY, INC.

1836-B KRAMER LANE SUITE 180 AUSTIN, TX 78768 USA PHONE: FAX: CERILLIANT
ROUND ROCK, TX

ENGINEER LSB DRAFTER CHECKED BY INITIAL RELEASE LAST EDIT DATE 10/11/17

PXCM/TXIO PANEL INSTALLATION

PXCM1

PXA-ENC-18 18 x 22 x 6

