



EV-2S 1200A

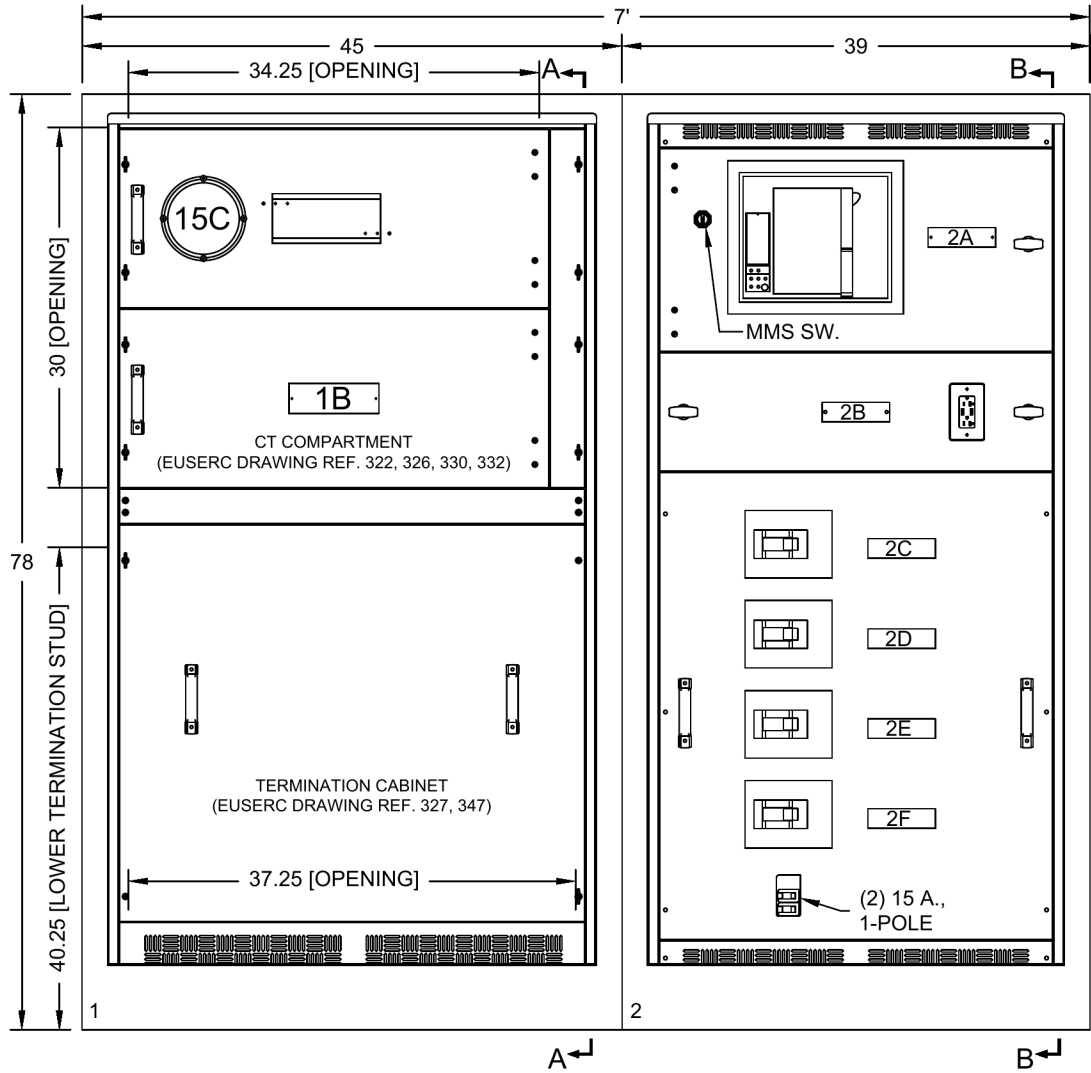
Inventory serial: 26271

Drawing/Part:			Spec section:
Number	Rev.	Part Qty.	Description of material being submitted:
	1	-	EV2 Submittal Drawings

NOTES:

1. This submittal represents Lincoln Electric's interpretation of the contract drawings provided. It is the responsibility of the electrical contractor and consulting engineer to verify this submittal for accuracy. Any deviation not indicated on the contract drawings will incur additional charges.
2. The customer must return the approved submittal accompanied by a written release to proceed with manufacturing and delivery of the included equipment.

SAN DIEGO GAS & ELECTRIC (SDG&E)		
DRAWING CONTENT	SDG&E REF.	EUSERC REF.
CT COMPARTMENT	SG 517.15	322
SERVICE SECTION	SG 517.3	326
BUS UNITS & CT LINK	SG 517.17	330
COMPARTMENT DOORS	SG 517.8	332
TERMINATION CABINET	SG 708.1	327
TERMINATION FACILITIES	SG 709.1	347
OUTDOOR ENCLOSURE	SG 517.6	354



FRONT VIEW
(SHOWN WITHOUT DOORS)

PRODUCT DESCRIPTION & RATINGS:

PRODUCT TYPE [EV-2]

- LEVEL-3 SERVICE SWITCHBOARD

UTILITY INFORMATION

- SAN DIEGO GAS & ELECTRIC (EUSERC)

- METER BEFORE DISCONNECT (HOT SEQUENCE)

POWER SYSTEM DATA [INCOMING SERVICE]

- SECTION 1 (BOTTOM FEED)

BUS SYSTEM DATA

- SILVER PLATED COPPER MAIN BUS

- DENSITY RATED AT 1000A PER SQUARE INCH

- 98% CONDUCTIVITY RATED IN ACCORDANCE w/ UL891

ENCLOSURE DATA

- CODE GAUGE, FORMED COVERS & DOORS

- ENCLOSURE SHALL CONFORM TO INGRESS PROTECTION REQUIREMENTS IN ACCORDANCE WITH TYPE-3R RATING.

- EXTERIOR HARDWARE TO BE TAMPER-RESISTANT S.S. SCREWS.

- DOOR HANDLES ARE EQUIPPED WITH PADLOCK HASP.

- FINISH SHALL BE: ☒ WHITE (STANDARD) ☐ GRAY ☐ GREEN

- FRONT ACCESSIBLE ONLY

CODE STANDARDS

- UL891

- SUITABLE FOR USE AS SERVICE EQUIPMENT.

NAMEPLATES

- LAMICOID TYPE, WHITE w/BLACK LETTERS.

ACCESSORIES

- ENCLOSURE HEATERS W/ HYGROSTAT CONTROL

- SERVICE DISCONNECT GROUND FAULT PROTECTION PER N.E.C. 230.

- METER SOCKET - 15 CLIP - COOPER B LINE (CAT.# 10015CT-B)

REFERENCES:

- SECTION VIEWS SEE SHT-06

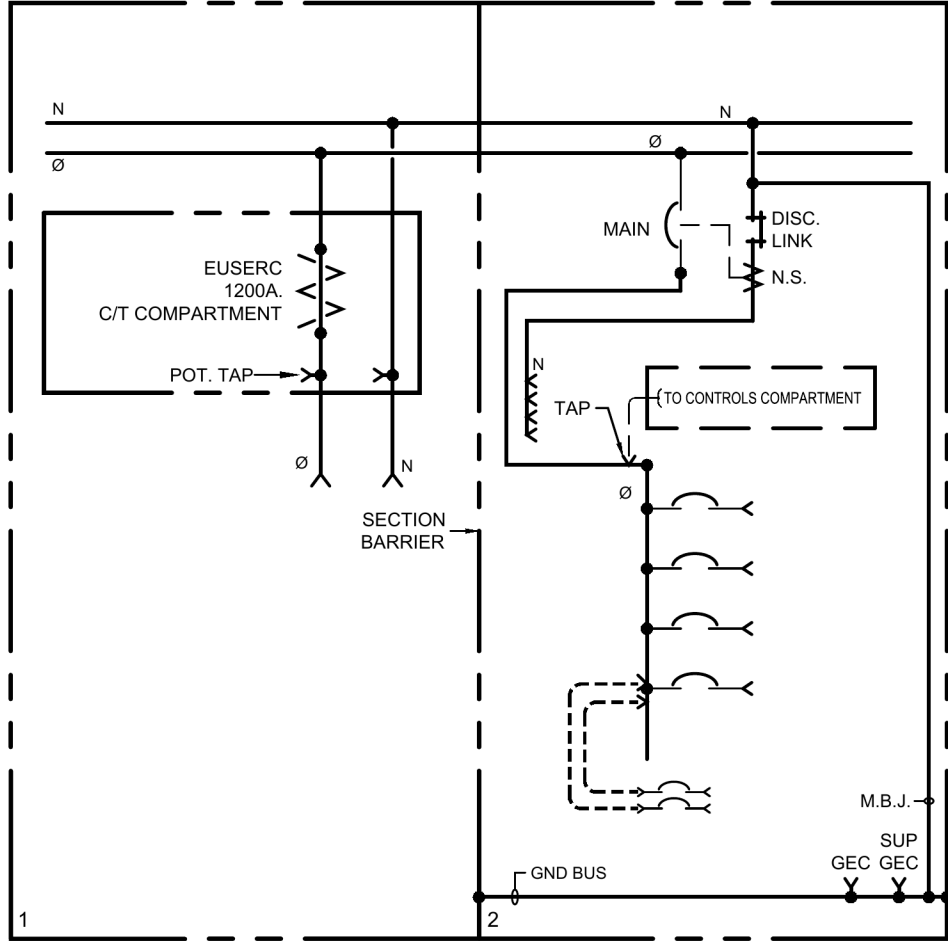
- FOR NAMEPLATE DESIGNATIONS SEE 'SWITCHBOARD SCHEDULE' SHT-03



LINCOLN ELECTRIC
PRODUCTS CO., INC.

DRAWING TITLE		EQUIPMENT DESIGNATION				
FRONT VIEW		EV-2				
SHORT CIRCUIT RATING	VOLTAGE	AMPERAGE	SYSTEM	BUS MATERIAL	ENCLOSURE	REV
65kA. SYM. RMS	480Y/277V AC	1200A.	3 ϕ , 4W	COPPER	TYPE-3R	1

SHEET NUMBER
1 OF 7



REFERENCES:
- FOR CONTROLS COMPARTMENT DETAILS SEE SHT-07



LINCOLN ELECTRIC
PRODUCTS CO., INC.

DRAWING TITLE		EQUIPMENT DESIGNATION				
ONE-LINE DIAGRAM		EV-2				
SHORT CIRCUIT RATING	VOLTAGE	AMPERAGE	SYSTEM	BUS MATERIAL	ENCLOSURE	REV
65kA. SYM. RMS	480Y/277V AC	1200A.	3 ϕ , 4W	COPPER	TYPE-3R	1

SHEET NUMBER
2 OF 7

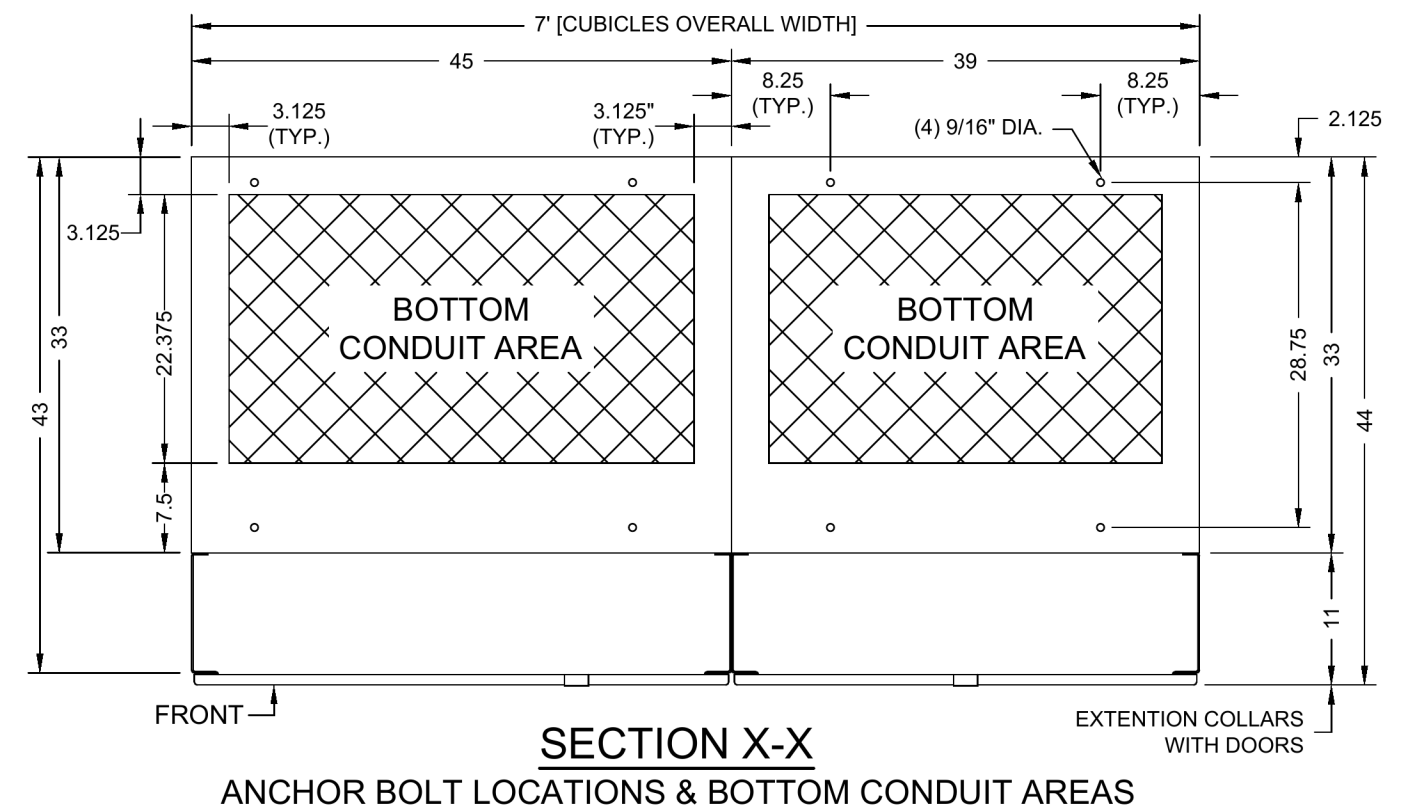
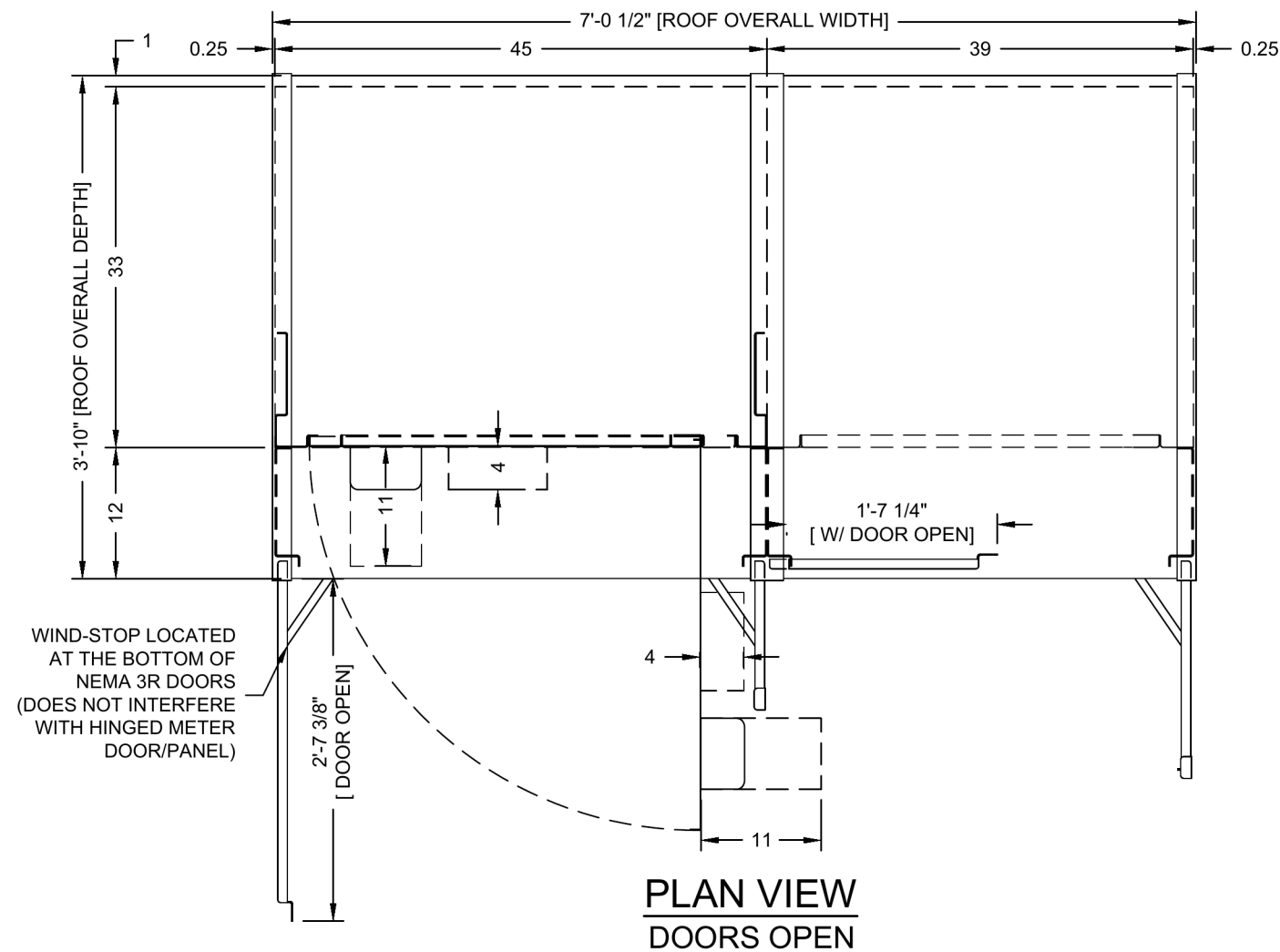
SWITCHBOARD SCHEDULE

SWITCHBOARD SCHEDULE															
CUB. LOCN.	DESIGNATION	DEVICE MANUFACTURER	FRAME RATING	TRIP RATING/ TYPE	# OF POLES	DEVICE CAT. NO.	LUG INFORMATION						CONDUCTOR MATERIAL	CABLE ENTRY	NOTES
							QTY	PHASES	QTY	NEUTRAL	QTY	GROUND			
1	INCOMING	-	-	-	-	-	3	TERMINATION STUDS PER EUSERC DWG. 347			-	-	-	BOTTOM	- PROVISIONS FOR INSTALLING UTILITY LUGS
1A	SERVICE SWITCHBOARD 1200A., 3Ø, 4W., 480Y/277V	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1B	1200A. EUSERC (SAN DIEGO GAS & ELECTRIC) C/T COMPARTMENT	-	-	-	-	-	-	-	-	-	-	-	-	-	- C.T.'S SUPPLIED & WIRED BY UTILITY
2	GEC	-	-	-	-	-	-	-	-	-	2	(1) #6-350 KCMIL	COPPER	BOTTOM	-
2A	MAIN SERVICE DISCONNECT	SCHNEIDER	1200/3 'NW'	1200A LSIG	3	WL1CCV44A9SXXXXXXAZ	BUS CONNECTED						-	-	- 100% RATED - INTEGRAL GROUND FAULT PROTECTION - MMS (MAINTENANCE MODE SWITCH) FOR ARC FLASH REDUCTION - PADLOCK HASP - DOOR ESCUTCHEON (CAT. #: S33929) - NEUTRAL SENSOR (CAT. #: S34036)
2B	CONTROLS COMPARTMENT	FACTORY WIRED													-
2C	CHARGING CABINET	SCHNEIDER	400/3	300A ADJ. TRIP	3	LJP36400U31XYP	1	(2) #2/0-500 KCMIL	2	(1) #2-600 KCMIL	2	(1) #6-350 KCMIL	ALUMINUM [CU GND]	BOTTOM	- PADLOCK HASP - MECHANICAL LUGS
2D	CHARGING CABINET	SCHNEIDER	400/3	300A ADJ. TRIP	3	LJP36400U31XYP	1	(2) #2/0-500 KCMIL	2	(1) #2-600 KCMIL	2	(1) #6-350 KCMIL	ALUMINUM [CU GND]	BOTTOM	
2E	CHARGING CABINET	SCHNEIDER	400/3	300A ADJ. TRIP	3	LJP36400U31XYP	1	(2) #2/0-500 KCMIL	2	(1) #2-600 KCMIL	2	(1) #6-350 KCMIL	ALUMINUM [CU GND]	BOTTOM	
2F	CHARGING CABINET	SCHNEIDER	400/3	300A ADJ. TRIP	3	LJP36400U31XYP	1	(2) #2/0-500 KCMIL	2	(1) #2-600 KCMIL	2	(1) #6-350 KCMIL	ALUMINUM [CU GND]	BOTTOM	
2	SPARE	SCHNEIDER	15/1	15A	1	BJL16015	1	(1) #14-3/0 AWG	1	(1) #14-1/0 AWG	1	(1) #14-1/0 AWG	ALUMINUM [CU GND]	BOTTOM	-
2	SPARE	SCHNEIDER	15/1	15A	1	BJL16015	1	(1) #14-3/0 AWG	1	(1) #14-1/0 AWG	1	(1) #14-1/0 AWG	ALUMINUM [CU GND]	BOTTOM	-



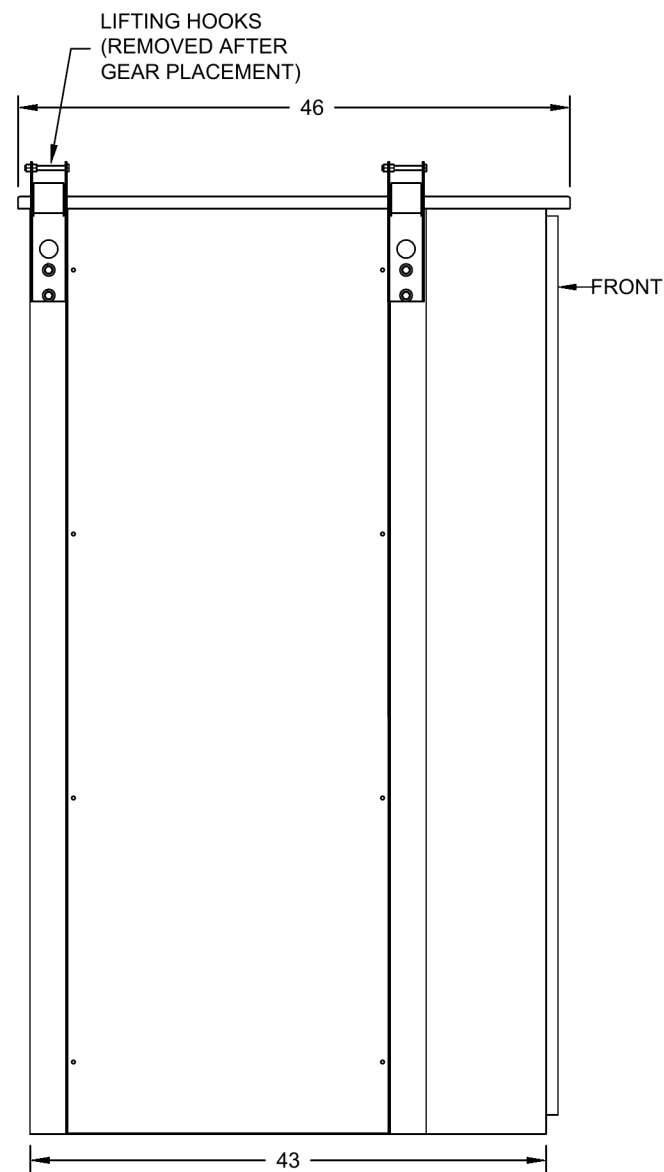
LINCOLN ELECTRIC
PRODUCTS CO., INC.

DRAWING TTITLE		EQUIPMENT DESIGNATION						SHEET NUMBER	
SCHEDULE		EV-2						3 OF 7	
SHORT CIRCUIT RATING		VOLTAGE		AMPERAGE	SYSTEM	BUS MATERIAL	ENCLOSURE	REV	
65kA. SYM. RMS		480Y/277V AC		1200A.	3ø, 4W	COPPER	TYPE-3R	1	

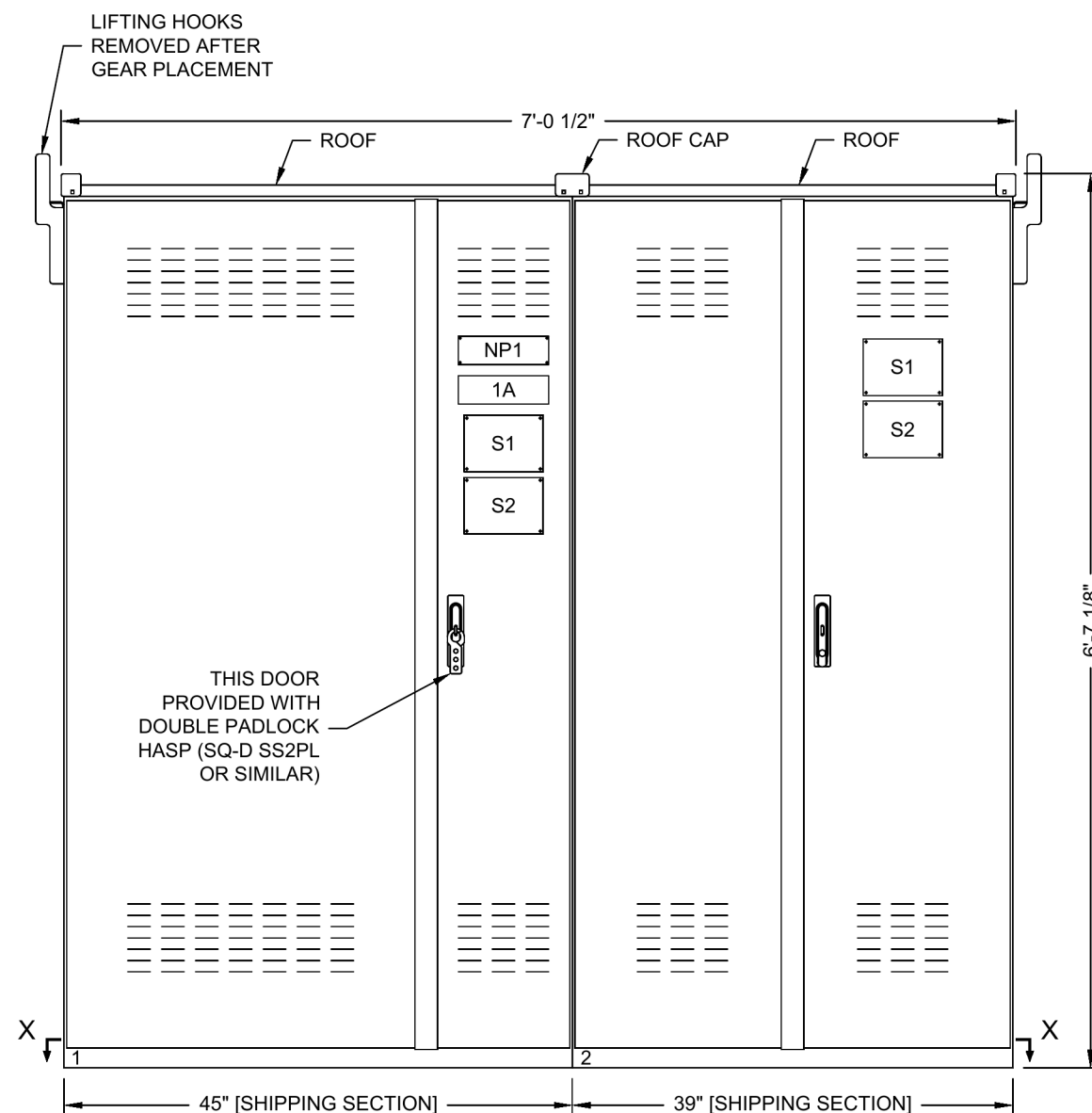


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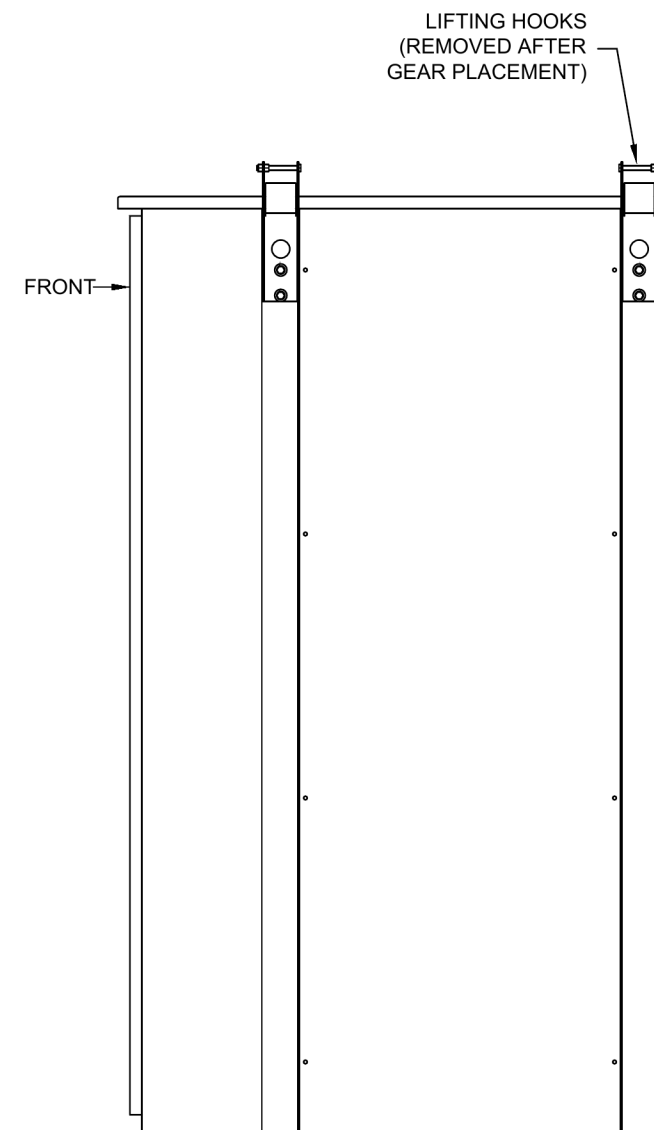
DRAWING TITLE		EQUIPMENT DESIGNATION					SHEET NUMBER
PLAN VIEW		EV-2					4 OF 7
SHORT CIRCUIT RATING	VOLTAGE	AMPERAGE	SYSTEM	BUS MATERIAL	ENCLOSURE	REV	
65kA. SYM. RMS	480Y/277V AC	1200A.	3ϕ, 4W	COPPER	TYPE-3R	1	



LEFT-SIDE VIEW
(END SECTION)



FRONT VIEW
(EXTERIOR DOORS SHOWN)



RIGHT-SIDE VIEW
(END SECTION)

SIGNAGE:

NP1 -LINCOLN NAMEPLATE (2.5" x 8" ALUMINUM)
S1 -DANGER 480 VOLTS (BI-LINGUAL)
S2 -DANGER ARC FLASH (BI-LINGUAL)

REFERENCES:

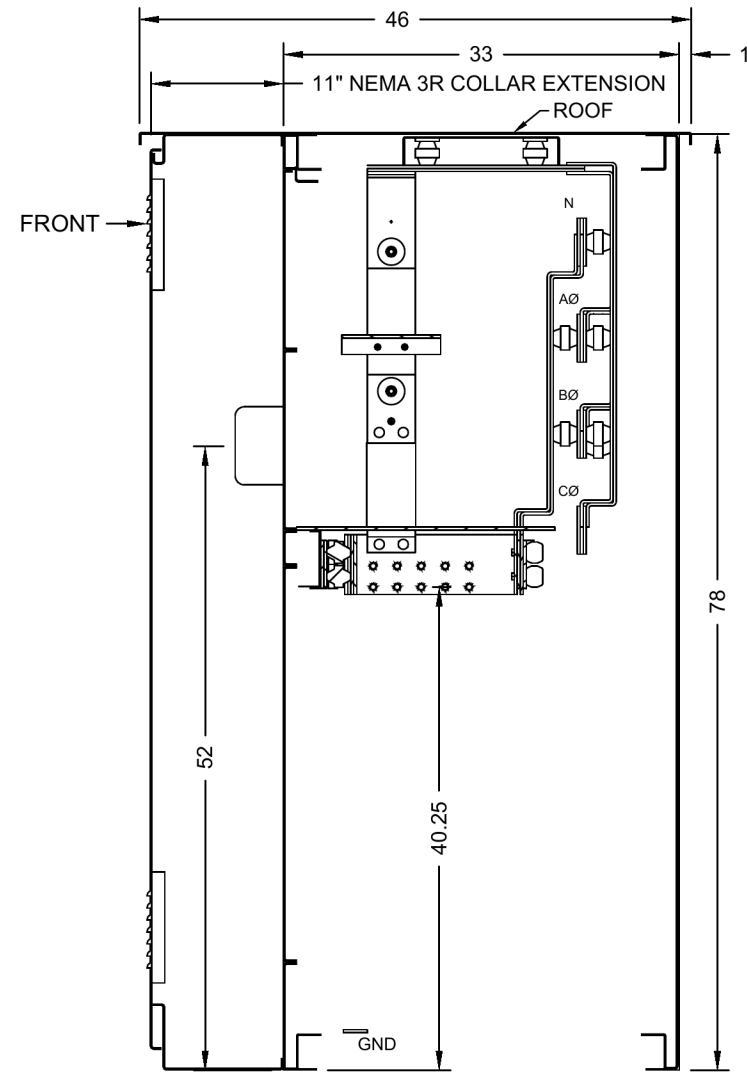
- FOR NAMEPLATE DESIGNATIONS SEE 'SWITCHBOARD SCHEDULE' SHT-03
- FOR SECTION VIEW 'X-X' SEE SHT-04



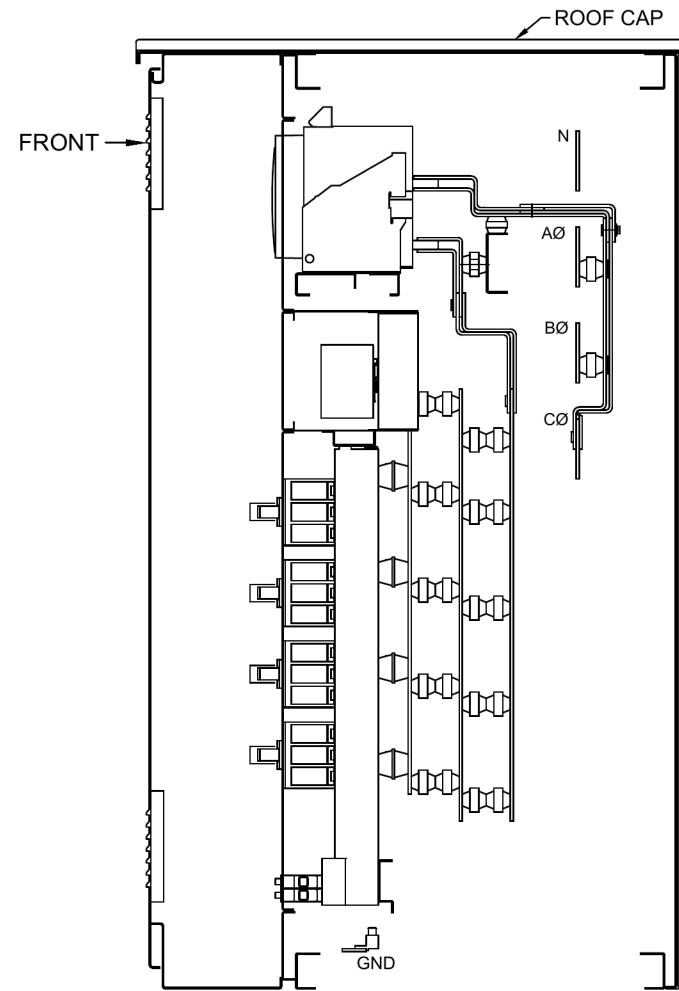
LINCOLN ELECTRIC
PRODUCTS CO., INC.

DRAWING TITLE		EQUIPMENT DESIGNATION				
EXTERIOR VIEWS		EV-2				
SHORT CIRCUIT RATING	VOLTAGE	AMPERAGE	SYSTEM	BUS MATERIAL	ENCLOSURE	REV
65kA. SYM. RMS	480Y/277V AC	1200A.	3 ϕ , 4W	COPPER	TYPE-3R	1

SHEET NUMBER
5 OF 7



SECTION A-A



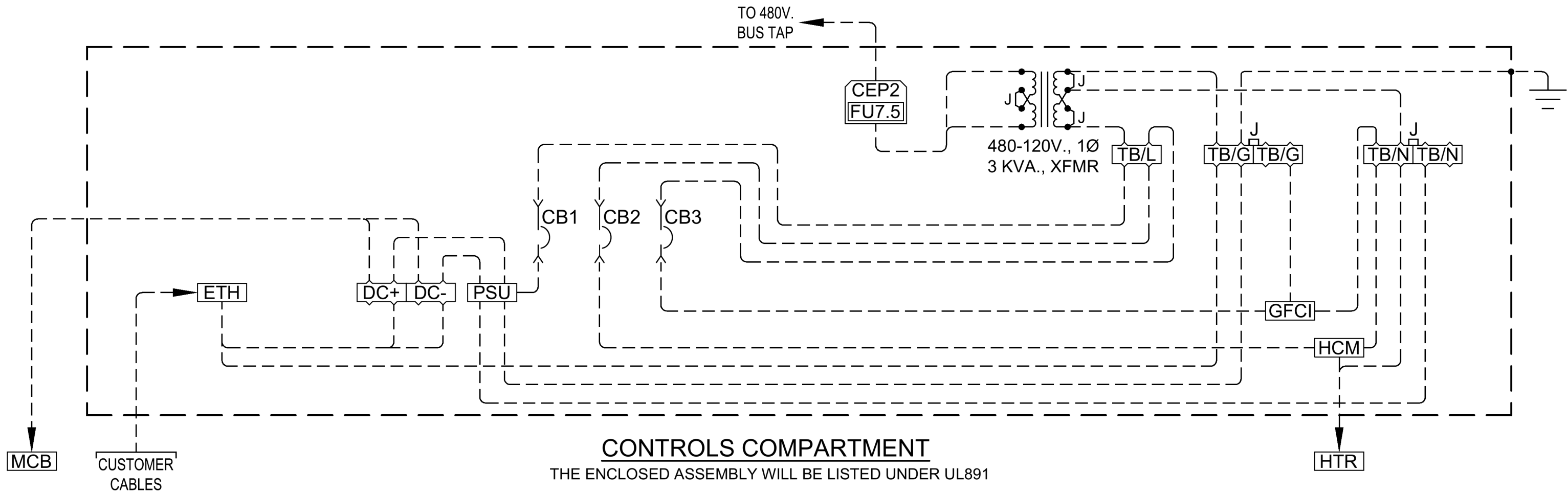
SECTION B-B



LINCOLN ELECTRIC
PRODUCTS CO., INC.

DRAWING TITLE		EQUIPMENT DESIGNATION					
SECTION VIEWS		EV-2					
SHORT CIRCUIT RATING	VOLTAGE	AMPERAGE	SYSTEM	BUS MATERIAL	ENCLOSURE	REV	
65kA. SYM. RMS	480Y/277V AC	1200A.	3 ϕ , 4W	COPPER	TYPE-3R	1	

SHEET NUMBER
6 OF 7



LEGEND:

- CB1-2** -SCHNEIDER TYPE 'MULTI-9' MINIATURE CIRCUIT BREAKER:
8A. TRIP, 1-POLE, 10k A.I.C. @ 240VAC [CAT. #: M9F42108]
- CB3** -SCHNEIDER TYPE 'MULTI-9' MINIATURE CIRCUIT BREAKER:
15A. TRIP, 1-POLE, 10k A.I.C. @ 240VAC [CAT. #: M9F42115]
- CEP** -COMPACT FUSED DISCONNECT SWITCH [MFR: MERSEN CAT. #CEP-2-30CC]
- DC-** -TERMINAL BLOCK: 24VDC (-)
- DC+** -TERMINAL BLOCK: 24VDC (+)
- FU7.5** -FUSE TYPE 'FNQ-R' [MFR: BUSSMANN CAT. #FNQ-R-7 1/2]
- ETH** -ETHERNET SWITCH

- GFCI** -15A., 120V., GROUND FAULT CIRCUIT INTERRUPTER, DUPLEX RECEPTACLE,
WITH USB-A & USB-C CHARGING PORTS.
- HCM** -HYGROSTAT [MFR: STEGO CAT. # EFR-012]
- HTR** -FINNED STRIP HEATER 250W @ 120V. [MFR: VULCAN CAT. #OSF1310-250A]
- MCB** -MAIN CIRCUIT BREAKER
- PSU** -24VDC POWER SUPPLY UNIT [MFR: MEANWELL 75W. DC [CAT. # SDR-75-24]
- TB/G** -TERMINAL BLOCK: GROUND
- TB/L** -TERMINAL BLOCK: LINE
- TB/N** -TERMINAL BLOCK: NEUTRAL



LINCOLN ELECTRIC
PRODUCTS CO., INC.

DRAWING TITLE		EQUIPMENT DESIGNATION				
CONTROLS COMPARTMENT		EV-2				
SHORT CIRCUIT RATING	VOLTAGE	AMPERAGE	SYSTEM	BUS MATERIAL	ENCLOSURE	REV
65kA. SYM. RMS	480Y/277V AC	1200A.	3φ, 4W	COPPER	TYPE-3R	1

SHEET NUMBER
7 OF 7