POWER DISTRIBUTION UNIT - SPECIFICATION

	400kW max	500kW max
1. AC Input		
1.1 Nominal voltage (V)	480	480
1.2 Nominal Input current (A)	481	601
1.3 Input frequency (Hz)	60Hz	60Hz
1.4 Max. short circuit withstand level (kA)	65kA at 480V	65kA at 480V
1.5 Main upstream current protection (A)	800A	800A
2. AC Output		
2.1 Nominal voltage (V)	Copper (Cu): 208VAC ONLY, Aluminium (Al): 208VAC or 400VAC	Copper (Cu): 208V or 415VAC ONLY, Aluminium (Al): 208VAC or 400VAC, 216VAC or 415VAC
2.2 Nominal output current (A)	400kVA	500kVA
	1110 at 208V	1388 at 208V
	-	1336 at 216V
	577 at 400V	722 at 400V
	-	696 at 415V
2.3 Output frequency (Hz)	Same as Input	Same as Input
2.4 Output current protection (A)	250-600A	250-600A
2.5 Subfeed output (A)	250A, 400A, 600A	250A, 400A, 600A
2.6 Distribution breaker size (A)	Refer to sheet 6	Refer to sheet 6
2.7 Rated conditional short-circuit current (Icc)	Refer to sheet 6	Refer to sheet 6
3. Environment		
3.1 Operating temperature	14ºF to 104°F (-10ºC to 40ºC)	14ºF to 104°F (-10ºC to 40ºC)
3.2 Storage temperature	-13ºF to 131ºF (-25ºC to 55ºC)	-13ºF to 131ºF (-25ºC to 55ºC)
3.3 Efficiency at full (100%) load	AL 98.62%, CU 98.76%	AL 98.56%, CU 98.74%
3.4 The assembly must be protected from water and conductive contaminants		
4. Enclosure		
4.1 The assembly material is steel with surface coating		
4.2 The assembly is made for indoor floor installation		
5. Connections		
5.1 Incoming and outgoing cables to be connected to terminals in component section		
5.2 Input cable entry is through top or bottom of the unit		
5.3 Output cable entry is through the top or bottom of the unit		

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Schneider Electric

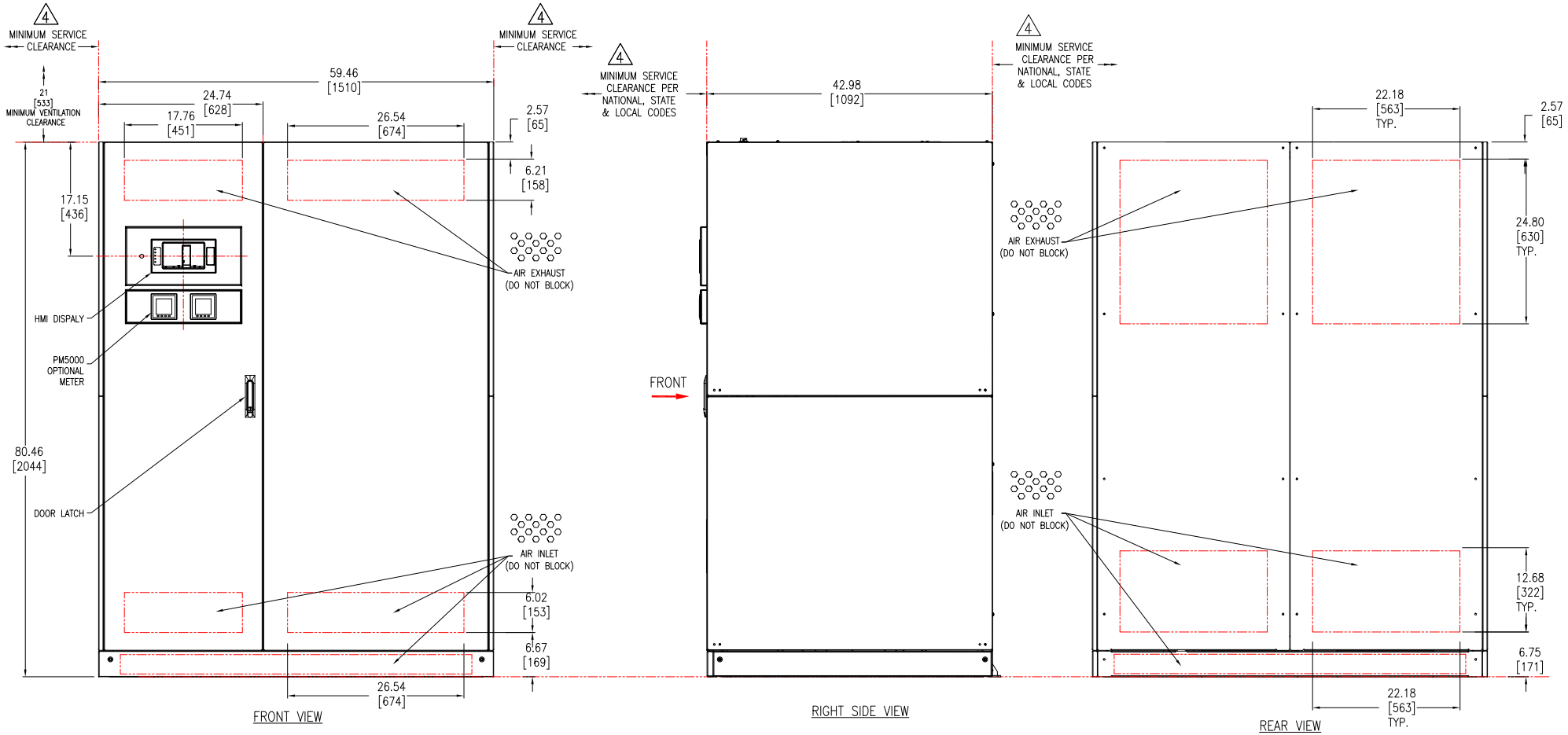
TITLE: PANTERA, POWER DISTRIBUTION UNIT
INPUT: 480VAC, 3PH, 60Hz
OUTPUT_400kVA: 208VAC/400VAC
OUTPUT_500kVA: 208VAC/216VAC OR 400VAC/415VAC
SPECIFICATION

PROJECT: SUBMITTAL DRAWING | SHEET 1 OF 7

DWG NO: PMM400K500 | REV. 3

DRAWN BY:	JAYAPRAKASH	05-APR-24
ENGINEER:	JAIPRAKASH/JORGE P	15-APR-24
APPROVED BY:	SYED/VICTOR E	15-APR-24

ANGLE PROJECTION N.A



NOTES:

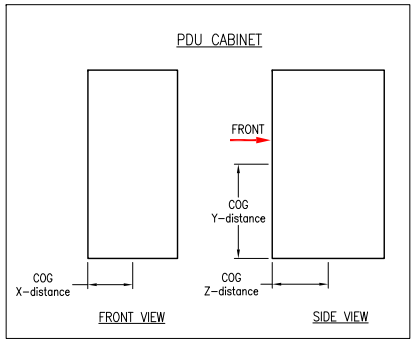
1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. ALL DIMENSIONS ARE IN INCHES [MILLIMETERS].
   ALL DIMENSIONS ARE TO OUTSIDE EDGE OF THE CABINET, EXCLUDING DOOR LOCK AND ALL HARDWARE.
4. FRONT ACCESS REQUIRED FOR SERVICE. MINIMUM REQUIRED FRONT CLEARANCE IS 36.0 [914].
   REAR CLEARANCE 5.0 [127] REQUIRED FOR VENTILATION.
   SIDE CLEARANCE 36.0 [914] REQUIRED ONLY WHEN TRANSFORMER SERVICE IS REQUIRED.
5. RECOMMENDED CLEARANCE IS SUBJECT TO NATIONAL AND LOCAL CODES.
6. CABLE ENTRY IS THROUGH TOP OR BOTTOM OF UNIT.
7. FOR WEIGHT AND CENTER OF GRAVITY OF THE UNIT REFER TO THE TABLE–1.
8. DOOR SWING–ROTATES FREELY 150°.
9. COLOR: REFER TO TABLE–1.
10. A PHILLIPS TYPE SCREW DRIVER IS REQUIRED TO REMOVE SIDE PANELS, A HEX 3/8", 5/16" OR FLAT TYPE SCREW DRIVER FOR FRONT PANEL.
11. POWER CABLES SHALL BE IN SEPARATE CONDUITS FROM CONTROL AND COMMUNICATION CABLES.
12. HEAT DESSIPATION:

SKU	PMM400CUB	PMM400-ALAX PMM400-ALA	PMM500CUB	PMM500-ALAX PMM500-ALA
kVA	400	400	500	500
Heat dissipation in BTU/hr	14592	16018	18450	20616

7 TABLE–1

COLOR, WEIGHT AND CENTER OF GRAVITY

PDU	COLOR	Weight lbs[kg]	Center of Gravity in Inches [mm]		
			X-Distance	Y-Distance	Z-Distance
PMM400-CUB	RAL9003 WHITE	4780 [2168]	23.5 [597]	30.0 [762]	21.78 [554]
PMM400-ALAX	APC RAVEN BLACK	4670 [2118]			
PMM400-ALA	RAL9003 WHITE				
PMM500-CUB	RAL9003 WHITE	5000 [2268]			
PMM500-ALAX	APC RAVEN BLACK	4890 [2218]			
PMM500-ALA	RAL9003 WHITE				



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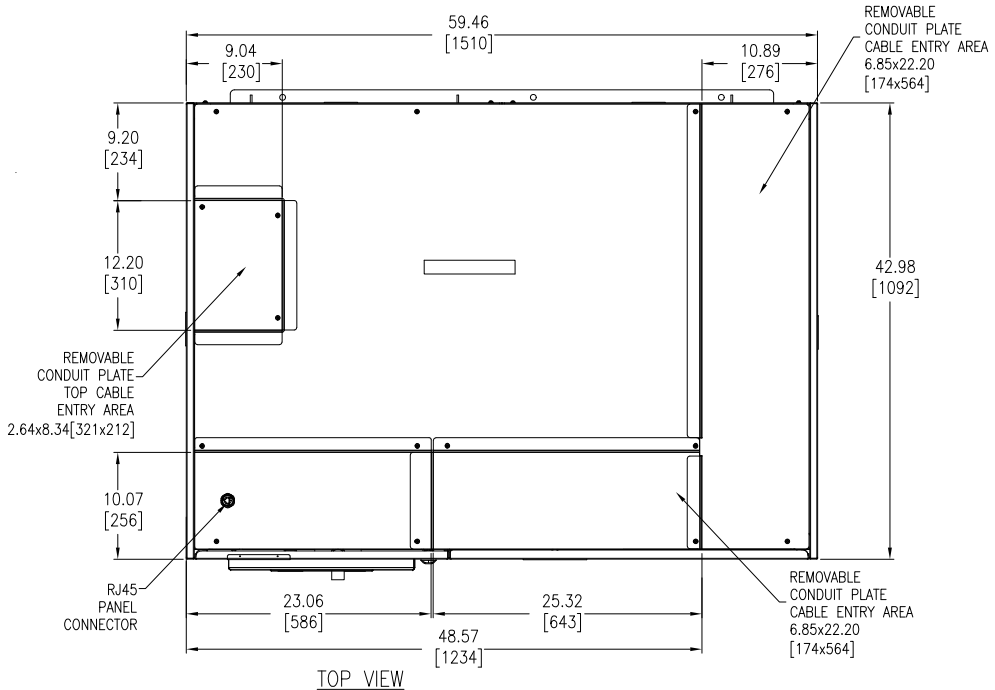
Schneider Electric

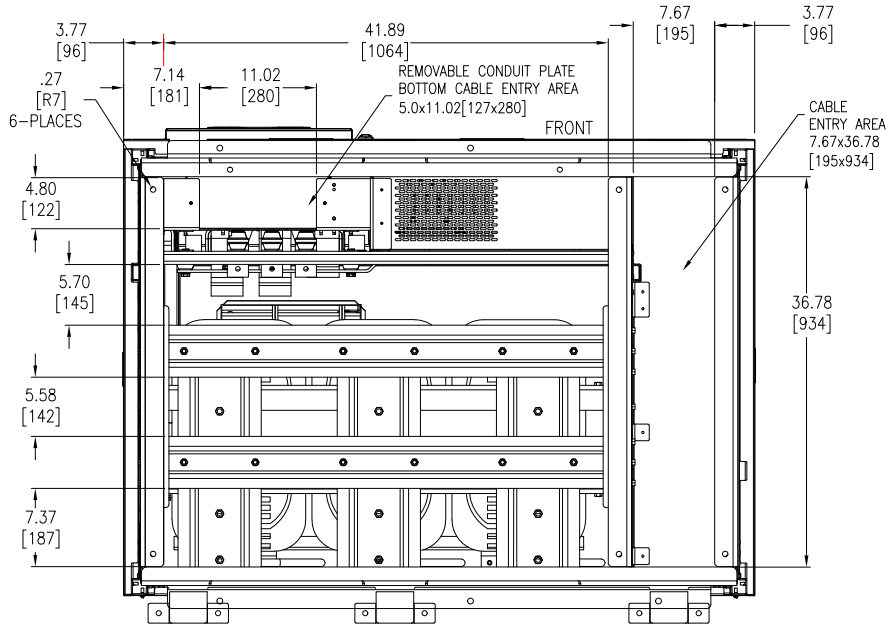
TITLE: PANTERA, POWER DISTRIBUTION UNIT
INPUT: 480VAC, 3PH, 60Hz
OUTPUT_400kVA: 208VAC/400VAC
OUTPUT_500kVA: 208VAC/216VAC OR 400VAC/415VAC
GENERAL ARRANGEMENT

PROJECT: SUBMITTAL DRAWING | SHEET 2 OF 7

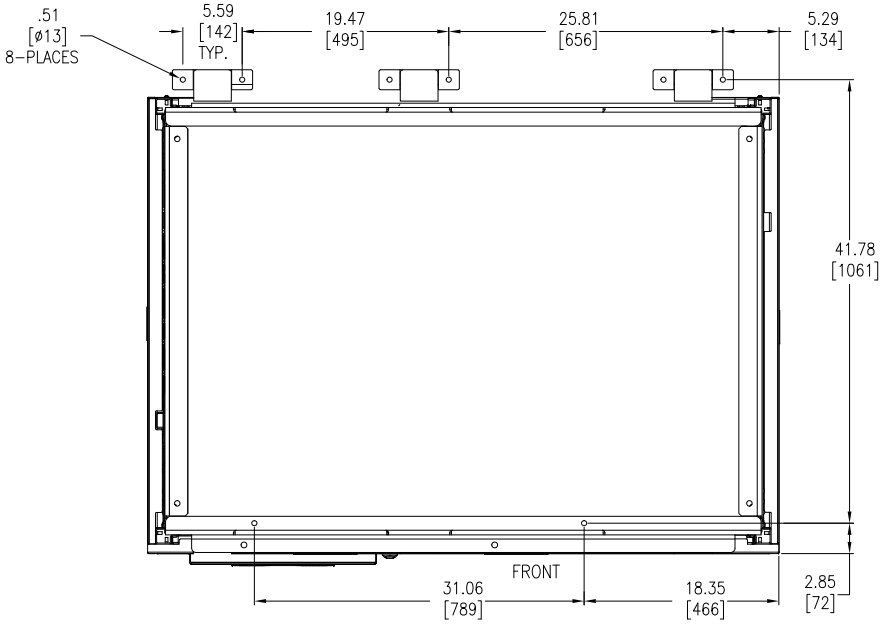
DWG NO: PMM400K500		REV. 2
DRAWN BY: JAYAPRAKASH	05–APR–24	THIRD ANGLE PROJECTION
ENGINEER: JAIPRAKASH/JORGE P	15–APR–24	
APPROVED BY: SYED/VICTOR E	15–APR–24	



TOP VIEW



BOTTOM VIEW



BASE TOP VIEW–ANCHORING DETAILS
(LOOKING FROM TOP)

NOTES:
1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. ALL DIMENSIONS ARE IN INCHES [MILLIMETERS].
4. DRILL/PUNCH HOLES IN PLATE AS PER THE REQUIREMENT. REMOVE PLATE FROM CABINET BEFORE DRILLING/PUNCHING.
5. FLOOR ANCHORING BOLTS NOT PROVIDED.

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Schneider Electric

TITLE: PANTERA, POWER DISTRIBUTION UNIT INPUT: 480VAC, 3PH, 60Hz OUTPUT_400kVA: 208VAC/400VAC OUTPUT_500kVA: 208VAC/216VAC OR 400VAC/415VAC TOP & BOTTOM VIEW, ANCHORING		DWG NO: PMM400K500	REV. 2
PROJECT: SUBMITTAL DRAWING	SHEET 3 OF 7	DRAWN BY: JAYAPRAKASH	25-SEP-23
		ENGINEER: JAIPRAKASH/JORGE P	28-SEP-23
		APPROVED BY: SYED/VICTOR E	28-SEP-23

THIRD ANGLE PROJECTION

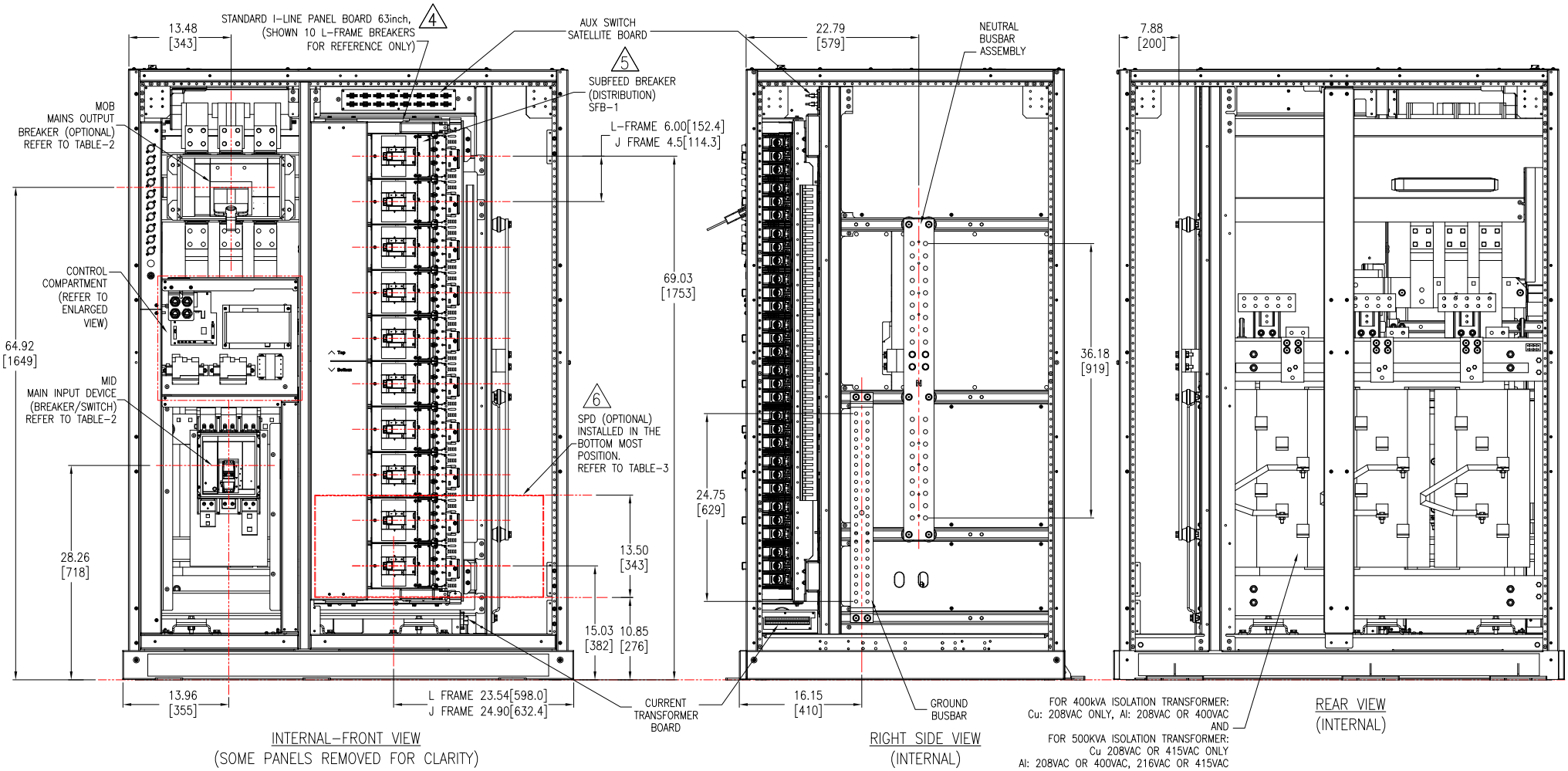


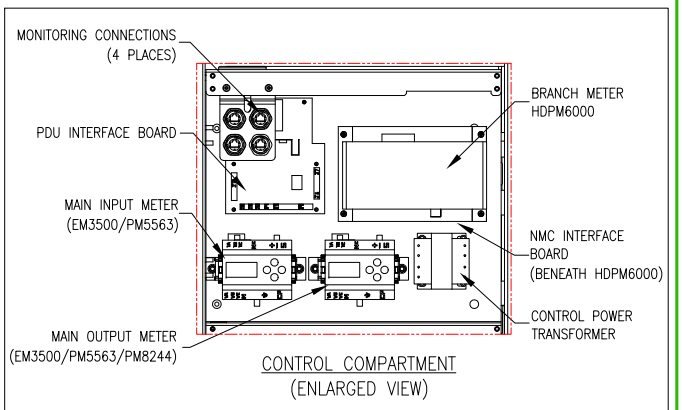
TABLE-2

BREAKER DETAILS

DEVICE	TYPE	RATING	MAKE	MODEL	BREAKING		Mechanical terminal wire range	Mechanical wire bending space	Compression terminal wire range AL/CU	Mechanical wire bending space
					240V	480V	AL/CU			
MID	3P, SWITCH	800A, 600V	Square-D	PJF36000S80	100kA	65kA	(3) 3/0 AWG TO 500kCMIL	14.3in	(2) 250kCMIL, NEMA 2 Hole (1/2" bolt)	11.0in
									(2) 350kCMIL, NEMA 2 Hole (1/2" bolt)	10.6in
	3P, BREAKER	800A, 600V @80%	Square-D	PJF36080U33A	100kA	65kA	(3) 3/0 AWG TO 500kCMIL	14.3in	(2) 500kCMIL, NEMA 2 Hole (3/8" bolt)	11.0in
MOB	3P, SWITCH	1600A, 600V@100%	Square-D	RJF36160CU33A	100kA	65kA	NA	NA	NA	NA
	3P, BREAKER	1200A, 600V @100%	Square-D	RJF36120CU33A	100kA	65kA	NA	NA	NA	NA

TABLE-3

DEVICE	TYPE	SERVICE VOLTAGE	PEAK SURGE CURRENT RATING PER PHASE	MAKE	MODEL
SPD	Voltage Surge Protection	208Y/120 V, 3 Phase, 4-wire + ground Wye	240kA	SQUARE-D	HL2IMA24C
		480Y/277 V, 3 Phase, 4-wire + ground Wye	240kA		HL4IMA24C



NOTES:

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2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. ALL DIMENSIONS ARE IN INCHES [MILLIMETERS].
4. REFER TO TABLE-5 IN SHEET-6 FOR SUBFEED BREAKERS CONFIGURATION AND DETAILS.
5. L FRAME SHOWN FOR ILLUSTRATION PURPOSE. FOR OTHER COMBINATION REFER TO SHEET-6.
6. SURGE PROTECTIVE DEVICE OPTION (REFER TO TABLE-3):
   208Y/120 SERIES ALSO APPLIES TO THE FOLLOWING VOLTAGE 220V/127.
   480Y/277 SERIES APPLIES TO THE FOLLOWING VOLTAGES 380Y/220 AND 415Y/240.

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Schneider Electric

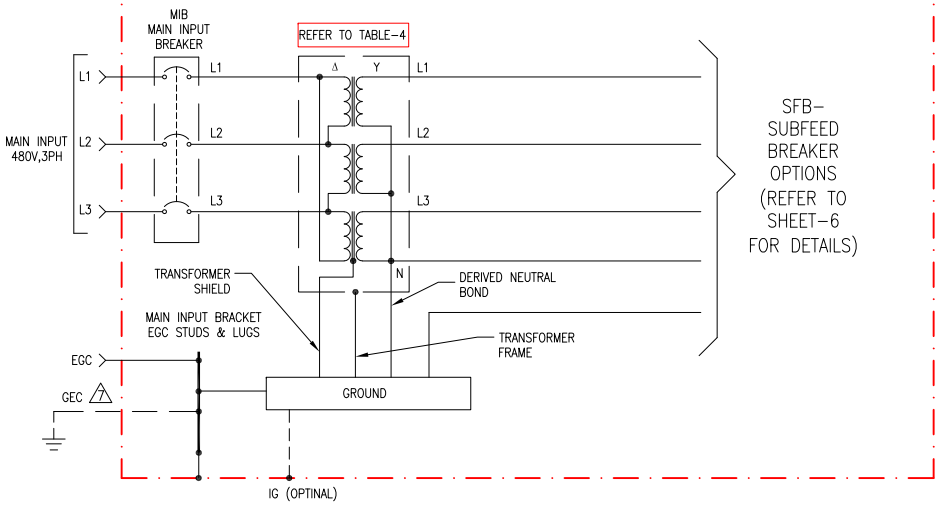
TITLE: PANTERA, POWER DISTRIBUTION UNIT
INPUT: 480VAC, 3PH, 60Hz
OUTPUT_400kVA: 208VAC/400VAC
OUTPUT_500kVA: 208VAC/216VAC OR 400VAC/415VAC
INTERNAL DETAILS

PROJECT: SUBMITTAL DRAWING | SHEET 4 OF 7

DWG NO: PMM400K500		REV. 5
DRAWN BY: JAYAPRAKASH	05-APR-24	THIRD
ENGINEER: JAIPRAKASH/JORGE P	11-APR-24	ANGLE
APPROVED BY: SYED/VICTOR E	11-APR-24	PROJECTION

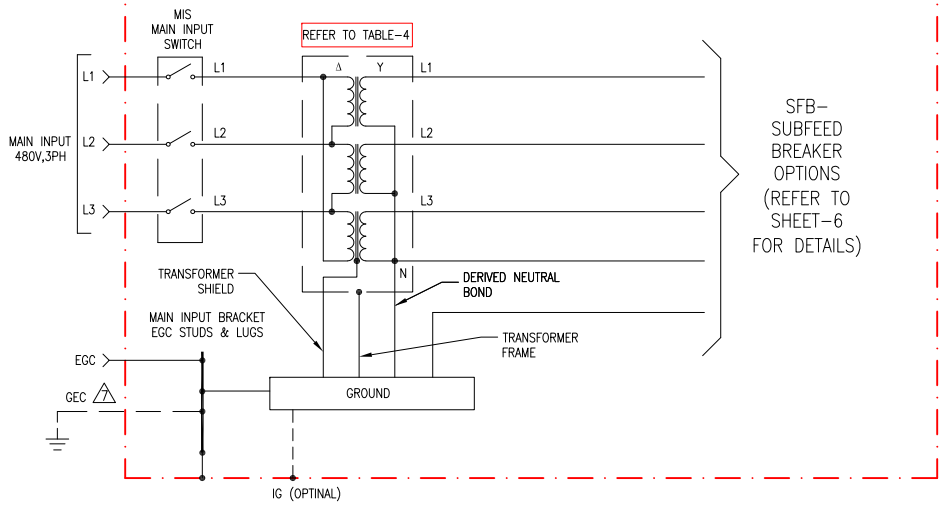
PDU WITH MAIN INPUT BREAKER MIB

PMM400/500



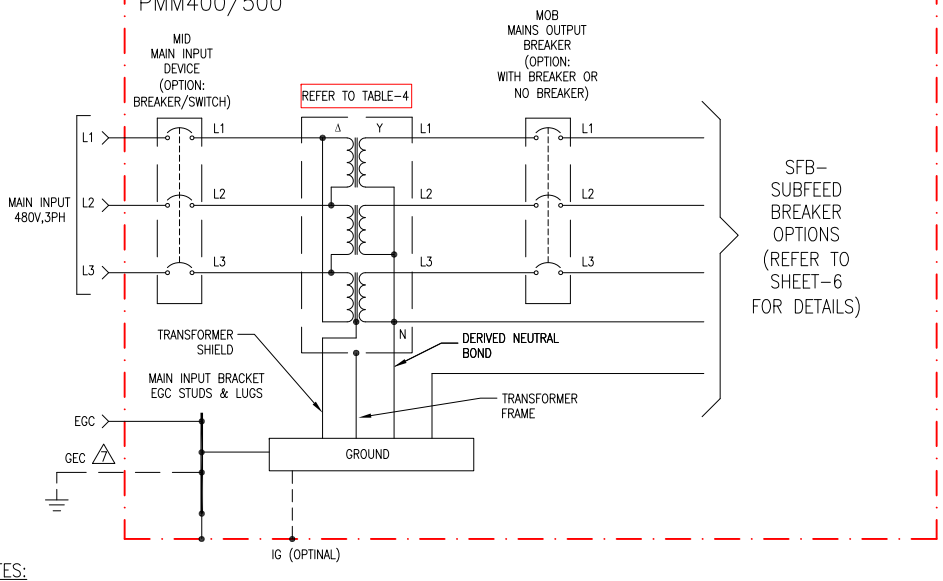
PDU WITH MAIN INPUT SWITCH MIS

PMM400/500



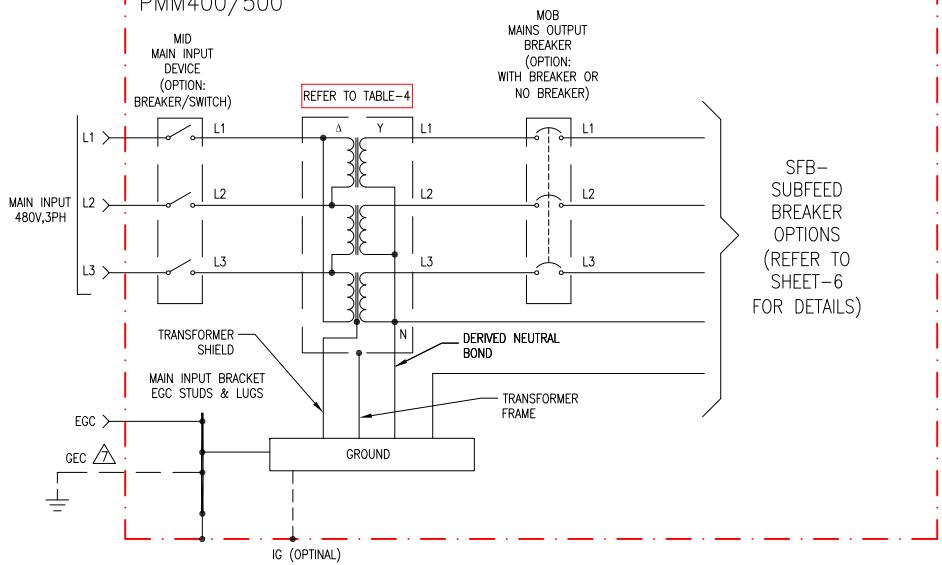
PDU WITH MAIN INPUT BREAKER (MIB) AND MAIN OUTPUT BREAKER(MOB)

PMM400/500



PDU WITH MAIN INPUT SWITCH (MIS) AND MAIN OUTPUT BREAKER (MOB)

PMM400/500



NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. AC SOURCE TO BE 480VAC 3PH 3WIRE + EGC (CONTACT SCHNEIDER ELECTRIC IF OTHER)
4. UTILITY SOURCE PROVIDED BY OTHERS 480V 3W+GROUND. IF MID IS A MOLDED CASE SWITCH, THEN THE A MAIN INPUT BREAKER PJF36080U33A SHOULD BE PROVIDED, RATED AS PER NEC OR APPLICABLE CODES.
5. THE LOAD SHOULD NEVER EXCEED THE MAXIMUM CURRENT RATING OF THE TRANSFORMER.
6. THE GROUNDING ELECTRODE CONDUCTOR (GEC) IS PROVIDED BY OTHERS.
7. RACK FRAME AND SKIN ARE ELECTRICALLY CONNECTED AND TIED TO CHASSIS GROUND.
8. TRANSFORMER BASE IS GROUNDED THROUGH RACK FRAME.
9. ALL AC POWER CABLING TO BE 600V RATED.
10. ISOLATED GROUND(IG)JUMPER SHALL NOT BE REMOVED UNLESS IG AND GEC ARE CONNECTED TOGETHER ELSEWHERE.

TABLE-4

Transformer	Input Voltage	Output Voltage	
		Copper (Cu)	Aluminium (Al)
400kVA	480 V	208V/120V	208V/120V OR 400V/230V
500kVA	480 V	208V/120V OR 415V/239V	208V/120V OR 216V/124V OR 400V/230V OR 415V/239V

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Schneider Electric

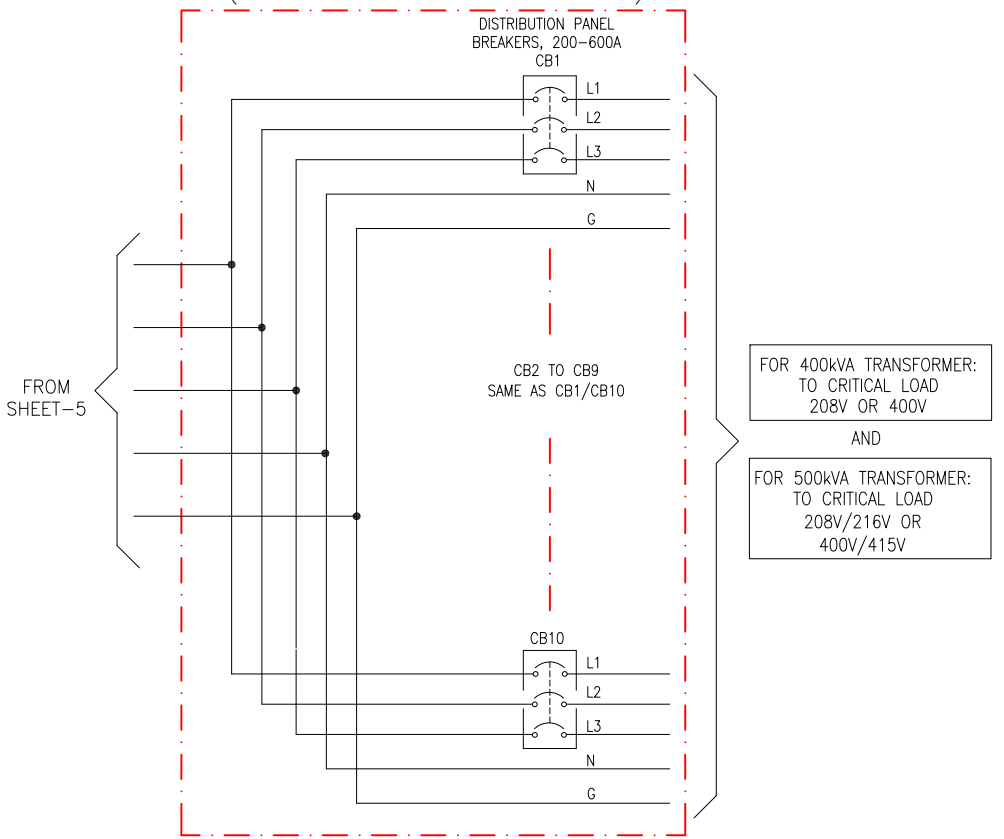
TITLE: PANTERA, POWER DISTRIBUTION UNIT
INPUT: 480VAC, 3PH, 60Hz
OUTPUT_400kVA: 208VAC/400VAC
OUTPUT_500kVA: 208VAC/216VAC OR 400VAC/415VAC
SINGLE LINE DIAGRAM-1

PROJECT: SUBMITTAL DRAWING | SHEET 5 OF 7

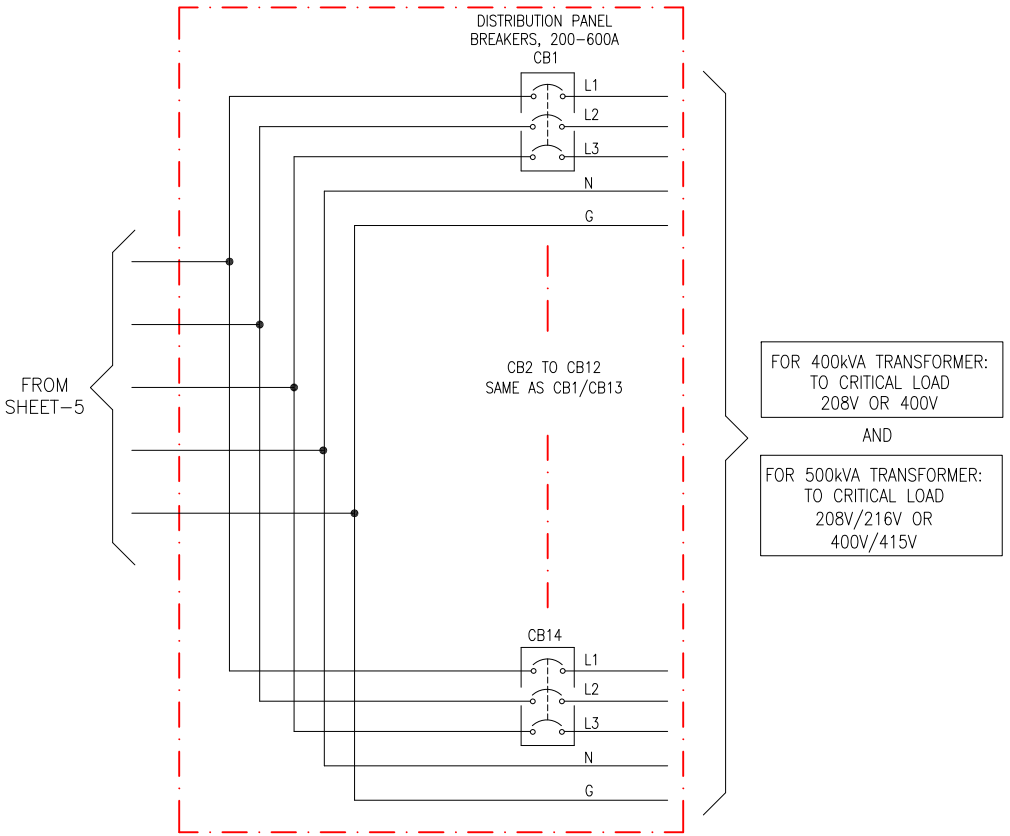
DWG NO:	PMM400K500		REV. 2
DRAWN BY:	JAYAPRAKASH	25-SEP-23	ANGLE PROJECTION
ENGINEER:	JAIPRAKASH/JORGE P	28-SEP-23	
APPROVED BY:	SYED/VICTOR E	28-SEP-23	N.A

SUBFEED BREAKER OPTIONS

10 L FRAME BREAKERS (SHOW 400A FOR REFERENCE)



14 J FRAME BREAKERS (SHOWN 250A FOR REFERENCE)



TABLE–5

	RATING	SFB	BREAKING CAPACITY 240V	BREAKING CAPACITY 480V	TERMINAL WIRE RANGE AL/CU	WIRE BENDING SPACE
	250A @80%	JDA36250U33X	25kA	18kA	3/0 AWG TO 350kCMIL	19.2 inch
11	250A @100%	JDA36250CU33X	25kA	18kA	3/0 AWG TO 350kCMIL	19.2 inch
	250A @80%	JGA36250U33X	65kA	35kA	3/0 AWG TO 350kCMIL	19.2 inch
11	250A @100%	JGA36250CU33X	65kA	35kA	3/0 AWG TO 350kCMIL	19.2 inch
	400A @100%	LGA36400CU33X	65kA	35kA	(2) 3/0 AWG TO 500kCMIL	15.2 inch
	400A @80%	LGA36400U33X	65kA	35kA	(2) 3/0 AWG TO 500kCMIL	15.2 inch
	400A @80%	LDA36400U33X	25kA	18kA	(2) 3/0 AWG TO 500kCMIL	15.2 inch
	600A @80%	LGA36600U33X	65kA	35kA	(2) 3/0 AWG TO 500kCMIL	15.2 inch
	600A @80%	LDA36600U33X	25kA	18kA	(2) 3/0 AWG TO 500kCMIL	15.2 inch

NOTES:
1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. AC SOURCE TO BE 480VAC 3PH 3WIRE + EGC (CONTACT SCHNEIDER ELECTRIC IF OTHER)
4. UTILITY SOURCE PROVIDED BY OTHERS 480V 3W+GROUND. IF MID IS A MOLDED CASE SWITCH, THEN THE A MAIN INPUT BREAKER PJF36080U33A SHOULD BE PROVIDED, RATED AS PER NEC OR APPLICABLE CODES.
5. DISTRIBUTION BREAKERS LIMITED TO 14 J–FRAME BREAKERS OR 10 L–FRAME BREAKERS, A COMBINATION BETWEEN L AND J FRAME BREAKERS IS ALLOWED, THE AVAILABLE INSTALLATION SPACE IN THE ILINE IS 63 INCHES.
6. THE LOAD SHOULD NEVER EXCEED THE MAXIMUM CURRENT RATING OF THE TRANSFORMER.
7. THE GROUNDING ELECTRODE CONDUCTOR (GEC) IS PROVIDED BY OTHERS.
8. RACK FRAME AND SKIN ARE ELECTRICALLY CONNECTED AND TIED TO CHASSIS GROUND.
9. TRANSFORMER BASE IS GROUNDED THROUGH RACK FRAME.
10. ALL AC POWER CABLING TO BE 600V RATED.
11. Cu LUGS FOR USE WITH Cu WIRE ONLY.

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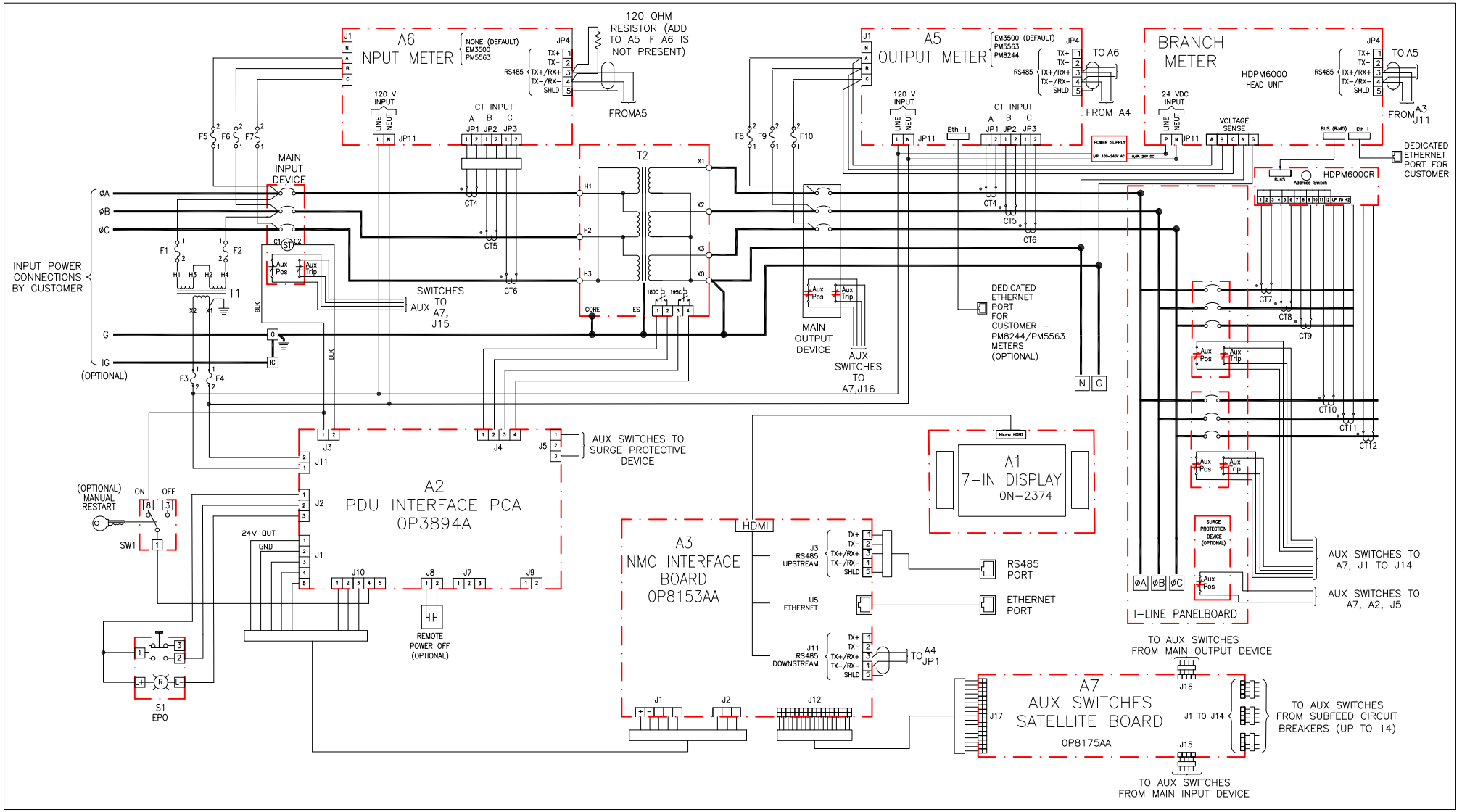
Schneider Electric

TITLE: PANTERA, POWER DISTRIBUTION UNIT
INPUT: 480VAC, 3PH, 60Hz
OUTPUT_400kVA: 208VAC/400VAC
OUTPUT_500kVA: 208VAC/216VAC OR 400VAC/415VAC
SINGLE LINE DIAGRAM–2

PROJECT: SUBMITTAL DRAWING | SHEET 6 OF 7

DWG NO:	PMM400K500		REV. 2
DRAWN BY:	JAYAPRAKASH	25–SEP–23	ANGLE PROJECTION
ENGINEER:	JAIPRAKASH/JORGE P	28–SEP–23	
APPROVED BY:	SYED/VICTOR E	28–SEP–23	N.A



NOTES:
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Schneider Electric

TITLE: PANTERA, POWER DISTRIBUTION UNIT INPUT: 480VAC, 3PH, 60Hz OUTPUT_400kVA: 208VAC/400VAC OUTPUT_500kVA: 208VAC/216VAC OR 400VAC/415VAC CONTROL DIAGRAM		DWG NO: PMM400K500	REV. 4
PROJECT: SUBMITTAL DRAWING	SHEET 7 OF 7	DRAWN BY: JAYAPRAKASH	05-APR-24
		ENGINEER: JAIPRAKASH/JORGE P	15-APR-24
		APPROVED BY: SYED/VICTOR E	15-APR-24
		ANGLE PROJECTION	N.A