

Series 70 ePODs: Type-X

480V, 3-Phase, 3-Wire + Ground, 60Hz

480V, 3-Phase, 3-Wire + Ground, 60Hz

CB601

SHUNT TRIP
24VDC

V601 (V)

F601

V601

T620

240/415V, 3-phase, 4-wire + Ground
100% Neutral

SPD620 Type 2 SPD

CT620 (A)

V620 (V)

PQ

F620

V620

PANEL 801
1200A SAFEPANEL

CB1 **CB2** **CB3** **CB4** **CB5** **CB6**

CT1 (A) CT2 (A) CT3 (A) CT4 (A) CT5 (A) CT6 (A) CT7 (A) CT8 (A)

EPO CONTROL

EXTERNAL EPO
NO CONTACT

190C OT ALARM

210C
OT SHUTDOWN

ADDITIONAL INFORMATION:

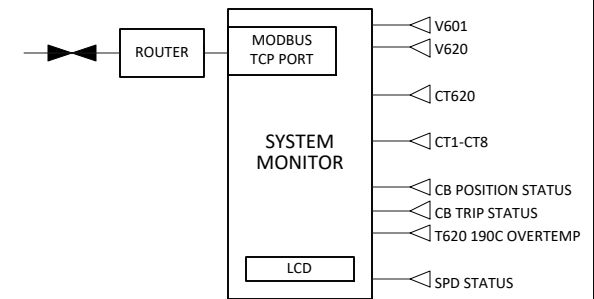
- Input Connection: 480V, 3-Phase, 3-Wire + Ground, 60Hz
- Display Type: 1200A SAFEPANEL
- All subfeed has a 1200A SAFEPANEL with subfeed circuit breakers.

SAFEPANEL NO. 1200A SAFEPANEL

- SAFEPANEL NO. 1200A SAFEPANEL
- MAXIMUM T
- MAXIMUM C
- FOR 400AF S
 - a. MAXIMUM
 - b. FOR 100%

CIRCUIT BREAKER

Transformer Data								
Ref No	Input	Output	Size	k-Factor	Temp Rise	Efficiency Class	Inrush	
T620	480V, 3-Phase, 3-Wire + Ground	240/415V, 3-phase, 4-wire + Ground	500kVA	k-4	150C	99+	5X Max	
Circuit Breaker Data								
Ref No	Rating	Fault Rating	Type	Mounting	Auxiliary Contacts	Shunt Trips	Mfg	Breaker Series
CB601	800AF / 800AT, 80%	65kAIC @ 480VAC (per UL ratings)	Electronic Trip (LS/I)	Fixed	Yes - monitored internally	24VDC	ABB	Tmax T6
CB1-6	400AF / 400AT, 100%	25kAIC @ 480VAC (per UL ratings)	Electronic Trip (LS/I)	Plug-in, (1) 250-500 MCM load lugs	Yes - monitored internally	No	ABB	Tmax T5



ADDITIONAL INFORMATION:

- Input Connections: Two-hole Compression Lug Terminals
- Display Type: Intermediate: 800x600 pixels, 16-bit color
- All subfeed harnesses are provided. Subfeed CTs are to be purchased with subfeed circuit breakers at time of subfeed circuit breaker purchase.

SAFEANEL NOTES

1. SAFEANEL IS CENTER-TAPPED.
2. MAXIMUM TOTAL CURRENT: 1200A
3. MAXIMUM CURRENT ON EITHER SIDE OF TAP: 800A
4. FOR 400AF SUBFEED CIRCUIT BREAKERS:
 - a. MAXIMUM RATING OF ADJACENT CIRCUIT BREAKERS: 80%
 - b. FOR 100% RATING, ONE EMPTY SPACE IS REQUIRED ABOVE CIRCUIT BREAKER.

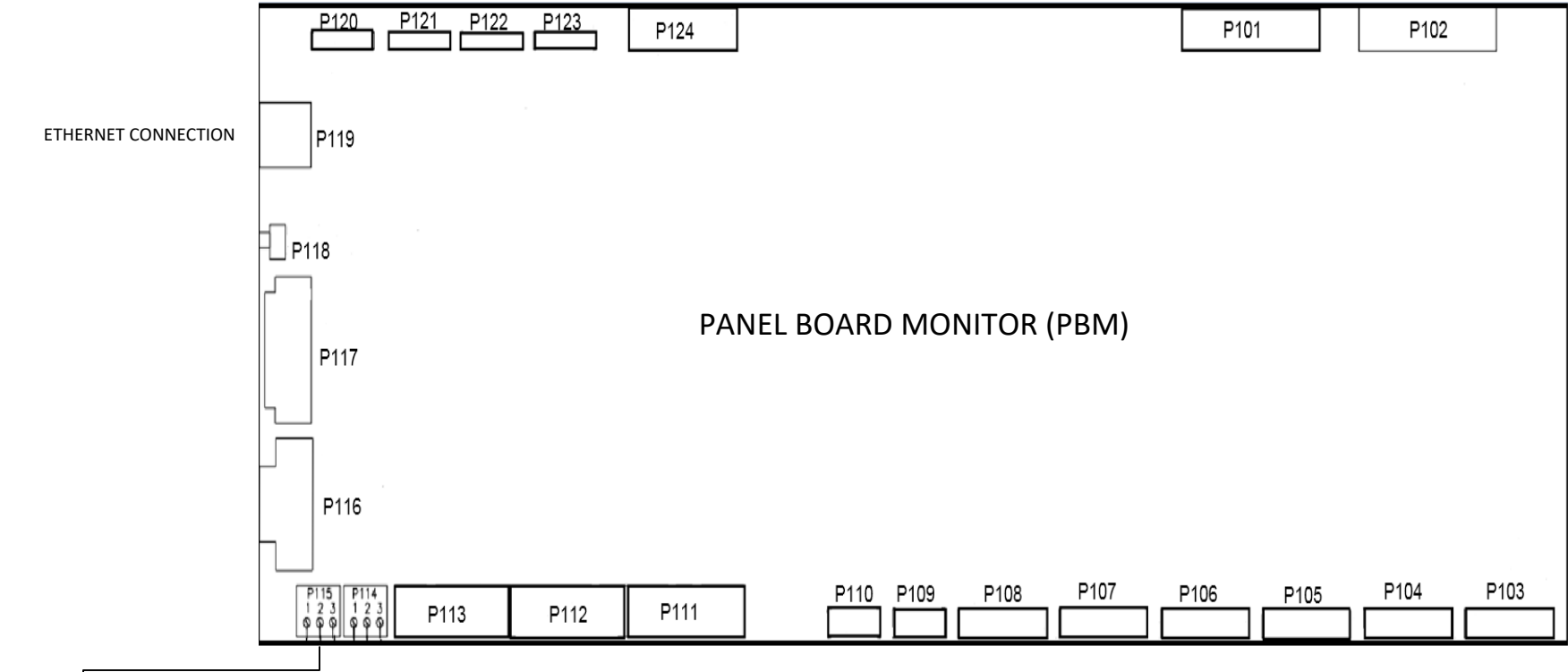
<p>LEGEND</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> A CURRENT METERING POINT </div> <div style="text-align: center;"> PQ POWER QUALITY METERING POINT </div> </div> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 10px;"> <div style="text-align: center;"> V VOLTAGE METERING POINT </div> </div>				
<div style="display: flex; align-items: center;"> <div> <h2 style="margin: 0;">LAYERZERO</h2> <p style="margin: 0;">POWER SYSTEMS, INC.</p> </div> </div>			PAGE DESCRIPTION	
			ONE LINE DIAGRAM, Type-X ePODs	
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	CHK	DATE		
	APPR	DATE	SHEET 1 OF 4	

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PANEL BOARD MONITOR (PBM)



SYMBOL FOR CLOSED CONTACTS



P115
SUMMARY ALARM

SUMMARY ALARM



NO SUMMARY ALARM



NOTES:

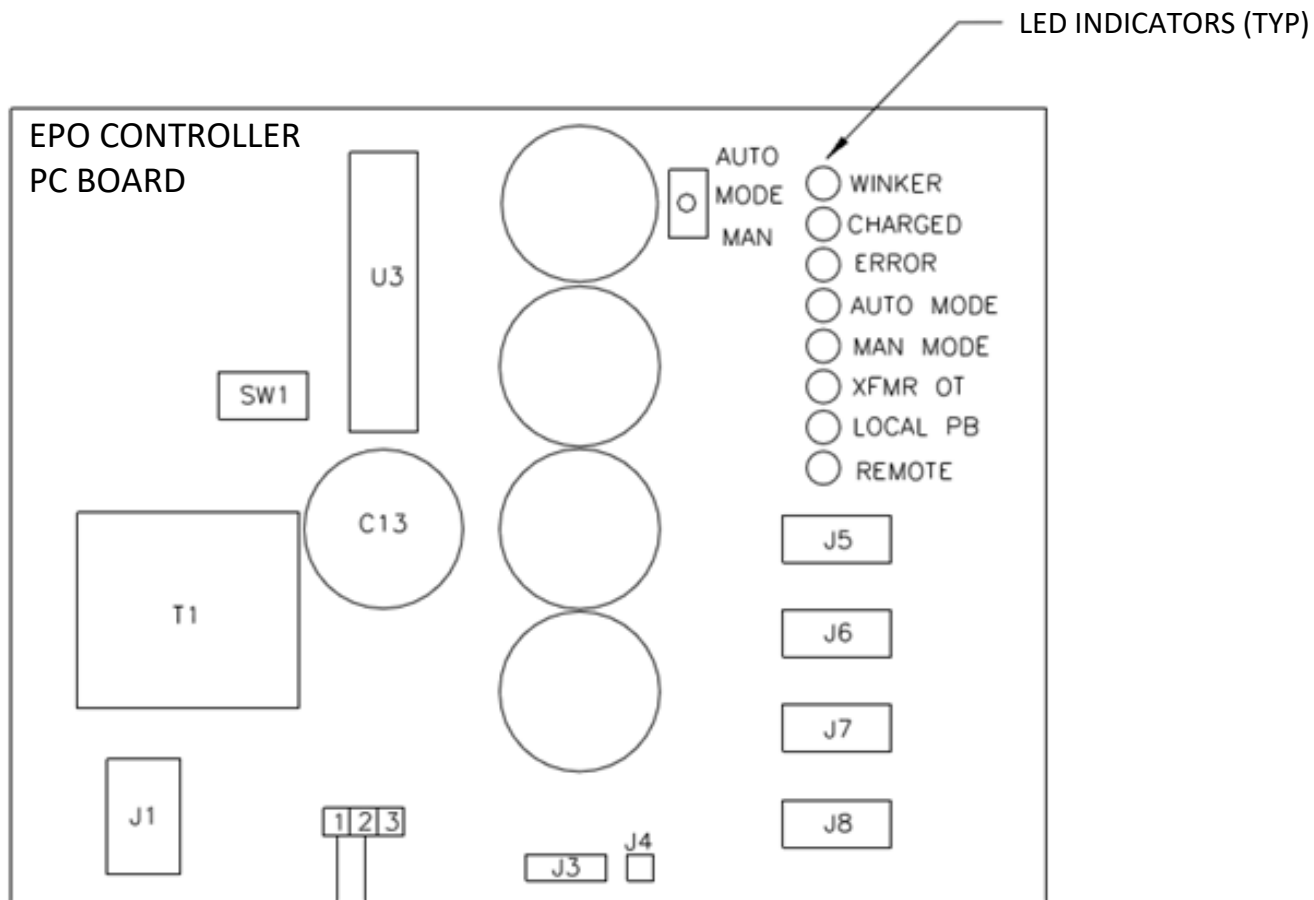
1. TERMINAL NUMBERS REFER TO TERMINALS ON PANEL BOARD MONITOR (PBM). THE PBM IS LOCATED IN THE CONTROLS/MONITORING SECTION. REFER TO THE MECHANICAL OUTLINE DRAWING FOR EXACT LOCATION.
 2. TERMINALS SUITABLE FOR AWG 20-16 STRANDED COPPER WIRE. MAXIMUM ONE WAY LENGTH FOR #16: 500 ft (152 m).
 3. ALL WIRING TO BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND ALL LOCAL CODES. CONTROL AND STATUS WIRING MUST BE RUN AND IN SEPARATE CONDUIT FROM POWER WIRING.
 4. SUMMARY ALARM CONTACTS ARE DRY, POTENTIAL-FREE CONTACTS.
- CUSTOMER REQUIREMENTS ARE AS FOLLOWS:
- a. Open circuit voltage ≤ 120 V RMS AC.
 - b. Closed circuit current ≤ 1 A RMS.



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EXTERNAL EPO CONTACT

MUST BE POTENTIAL FREE, DRY CONTACT
NORMALLY OPEN
CLOSE TO ACTIVATE EPO FUNCTION
CONTACT SENSING CIRCUIT IS 5 V DC, 5 mA

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