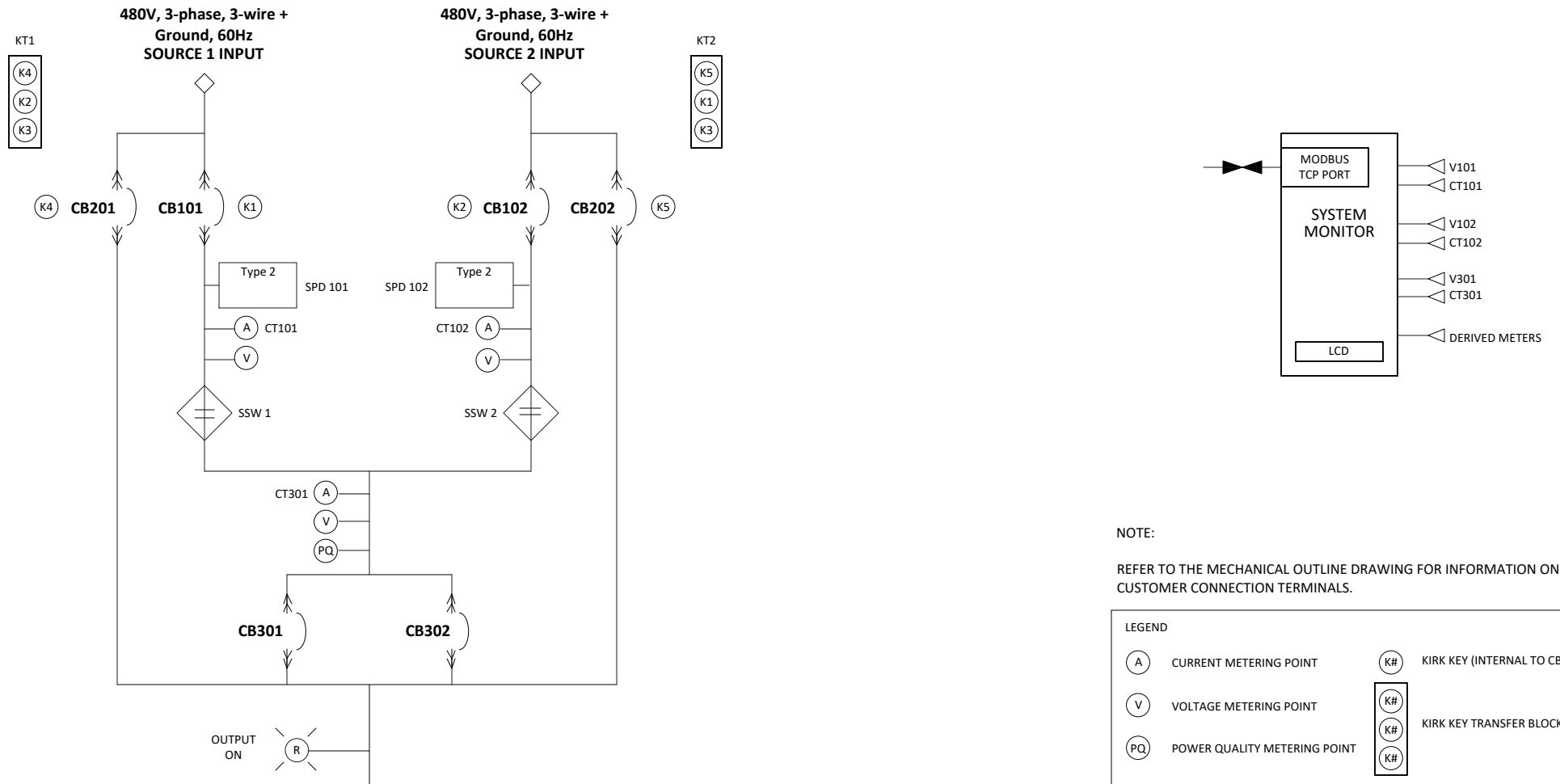


Series 70 eSTS
4000A, 2-source, 3-pole, 3-wire, 100kA, TMR

CIRCUIT BREAKER DATA

REF NO	RATING	FAULT RATING	TYPE	MOUNTING	AUXILIARY CONTACTS	SHUNT TRIPS	MFG	BREAKER SERIES
CB101 CB201 CB102 CB202	4000AF	100kA @ 480VAC (per UL ratings)	Switch Disconnector UL 1066 3-pole	Draw-out	Yes Internal Use Only	No	ABB	Emax 2
CB301 CB302	4000AF	100kA @ 480VAC (per UL ratings)	Switch Disconnector UL 1066 3-pole	Draw-out	Yes Internal Use Only	No	ABB	Emax 2



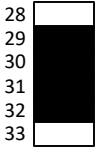
PAGE DESCRIPTION
ONE LINE DIAGRAM, eSTS

JOB	DRAWN	DATE 6/20/2023	DWG NO eSTS000350	REV A
	CHK	DATE		
	APPR	DATE		
SHEET 1 OF 2				

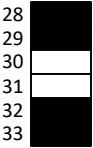
CUSTOMER INTERFACE BOARD (CIB)

EXTERNAL CONTROL CONTACTS

S1 EXTERNAL
PREFERRED SELECT



S2 EXTERNAL
PREFERRED SELECT



FRONT PANEL
PREFERRED SELECT

ANY COMBINATION OTHER
THAN THE TWO ABOVE

NORMAL STS OPERATION
(NO REMOTE TRANSFER INHIBIT)



REMOTE TRANSFER
INHIBIT COMMAND



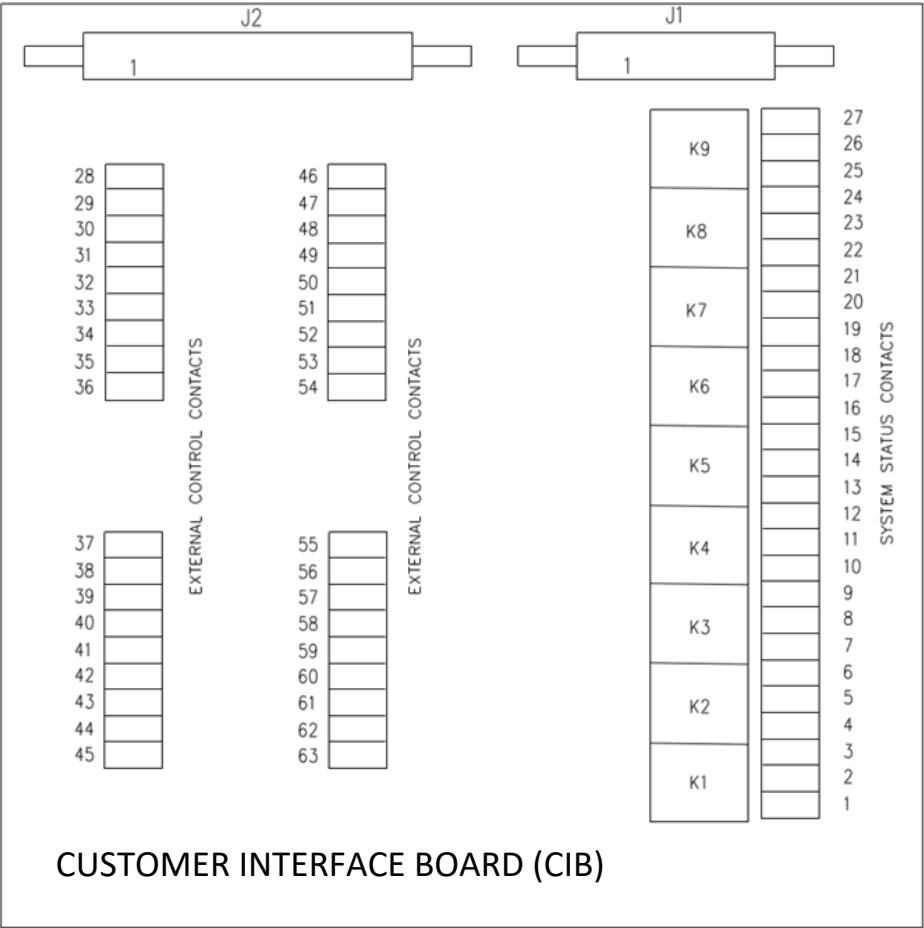
NORMAL STS OPERATION
(WITH FORM C ALARM)



NORMAL STS OPERATION
(WITH FORM C ALARM)



SYMBOL FOR CLOSED CONTACTS



SYSTEM STATUS CONTACTS

NORMAL STS OPERATION
(NO REMOTE TRANSFER INHIBIT)



REMOTE TRANSFER INHIBIT
COMMAND RECEIVED



SOURCE 2 FAILURE



SOURCE 2 AVAILABLE



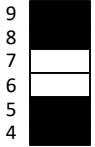
SOURCE 1 FAILURE



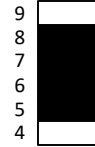
SOURCE 1 AVAILABLE



SOURCE 1
ACTIVE SOURCE



SOURCE 2
ACTIVE SOURCE



SUMMARY ALARM



NO SUMMARY ALARM



NOTES:

1. TERMINAL NUMBERS REFER TO TERMINALS ON CUSTOMER INTERFACE BOARD (CIB). REFER TO THE MECHANICAL OUTLINE DRAWING FOR EXACT LOCATION OF THE CIB AND CUSTOMER WAN.

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. SYSTEM STATUS OUTPUTS ARE DRY, POTENTIAL-FREE CONTACTS. CUSTOMER REQUIREMENTS ARE AS FOLLOWS:
a. Circuit voltage $V < 250$ V AC with current $I < 12$ A RMS, power factor = 1.0.
b. Circuit voltage $V < 200$ V DC with current $I < 0.4$ A.

5. SYSTEM CONTROL INPUTS READ COMMANDS FROM EXTERNAL CONTACTS. CUSTOMER REQUIREMENTS ARE AS FOLLOWS:
a. Dry, potential-free contacts.
b. Form C
c. Contacts are to be capable of switching 24 V DC at 5 mA $< I < 10$ mA.



LAYERZERO
POWER SYSTEMS, INC.

PAGE DESCRIPTION

ONE LINE DIAGRAM, eSTS

JOB

DRAWN

DATE 6/20/2023

CHK

DATE

APPR

DATE

DWG NO

eSTS000350

REV

A

SHEET 2 OF 2