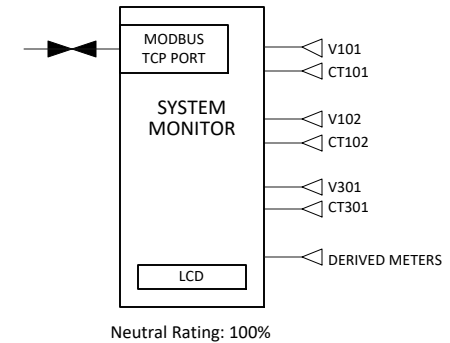
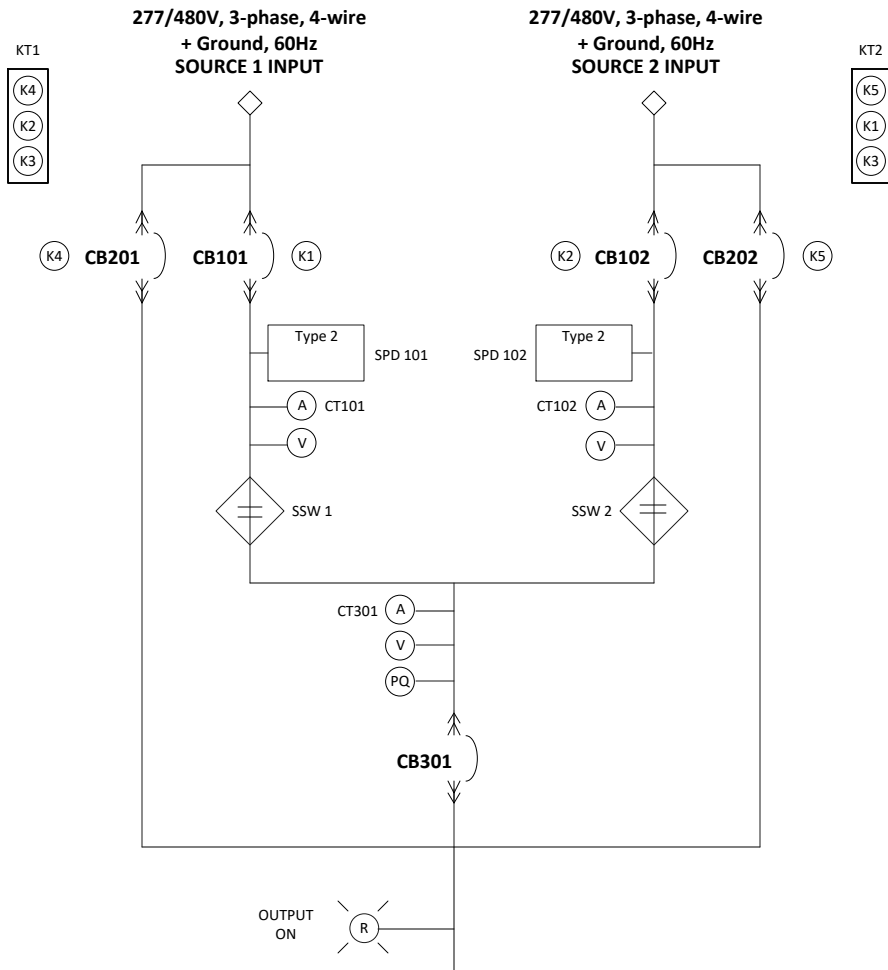


**Series 70 eSTS**  
1600A, 2-source, 4-pole, 4-wire, 65kA, SMR

**CIRCUIT BREAKER DATA**

REF NO	RATING	FAULT RATING	TYPE	MOUNTING	AUXILIARY CONTACTS	SHUNT TRIPS	MFG	BREAKER SERIES
CB101 CB201 CB102 CB202	1600AF / 1600AT, 100%	65kAIC @ 480VAC (per UL ratings)	Electronic Trip (LSI) 4-pole	Draw-out	Yes Internal Use Only	No	ABB	Emax 2
CB301	1600AF	65kA @ 480VAC (per UL ratings)	Switch-Disconnector UL 1066 4-pole	Draw-out	Yes Internal Use Only	No	ABB	Emax 2



NOTE:  
REFER TO THE MECHANICAL OUTLINE DRAWING FOR INFORMATION ON THE CUSTOMER CONNECTION TERMINALS.

LEGEND

(A)	CURRENT METERING POINT	(K#)	KIRK KEY (INTERNAL TO CB)
(V)	VOLTAGE METERING POINT	(K#)	KIRK KEY TRANSFER BLOCK
(PQ)	POWER QUALITY METERING POINT	(K#)	
		(K#)	

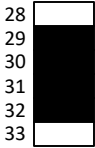
PAGE DESCRIPTION  
ONE LINE DIAGRAM, eSTS

JOB LZ-10905	DRAWN CHK APPR	DATE 5/6/2025 DATE DATE	DWG NO 94-ES-10905-1	REV A
SHEET 1 OF 2				

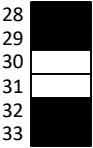
# CUSTOMER INTERFACE BOARD (CIB)

## 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



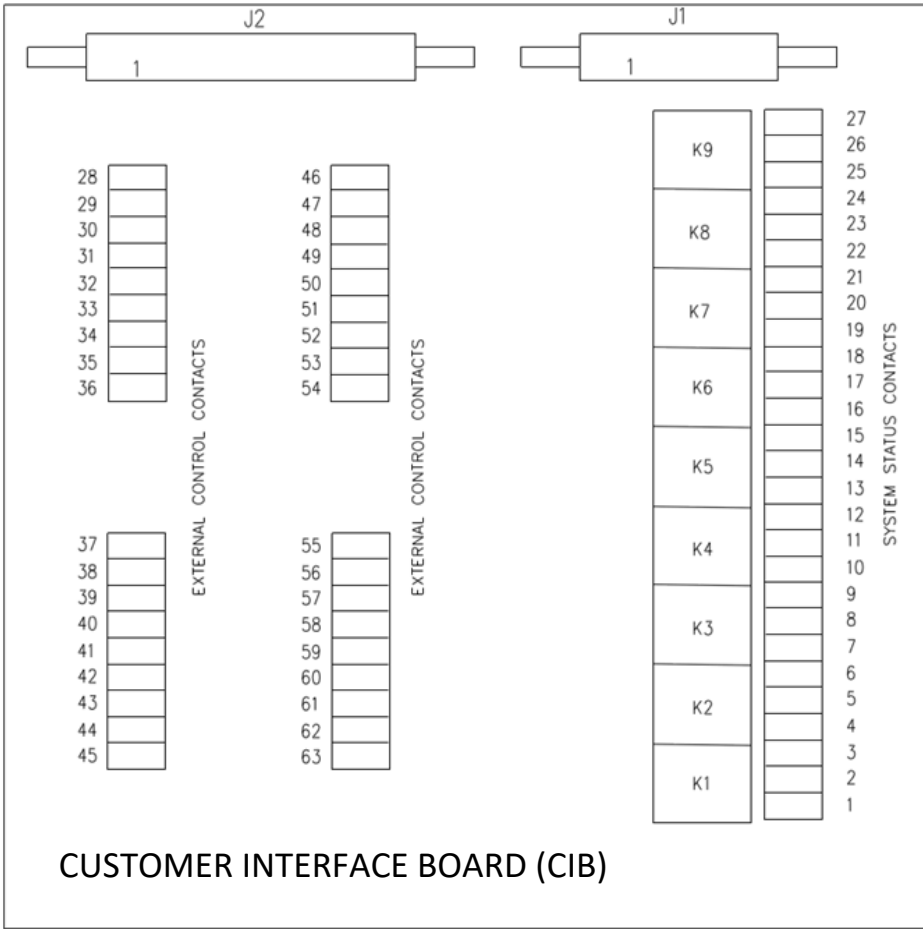
NORMAL STS OPERATION  
(WITH FORM C ALARM)



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



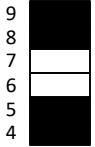
SOURCE 1 FAILURE



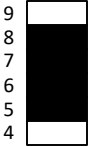
SOURCE 1 AVAILABLE



SOURCE 1  
ACTIVE SOURCE



SOURCE 2  
ACTIVE SOURCE



SUMMARY ALARM



NO SUMMARY ALARM



## CUSTOMER INTERFACE BOARD (CIB)

### 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  
LZ-10905

DRAWN  
CHK

DATE 5/6/2025  
DATE

APPR

DATE

DWG NO  
94-ES-10905-1

REV  
A

SHEET 2 OF 2