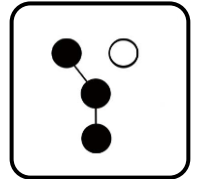


Wiring Diagrams

Service Entrance Rated Automatic Transfer Switches



Models:

KUS/KUP

Controller:

Decision-Maker[®] MPAC 1500

Product Identification Information

Product identification numbers determine service parts. Record the product identification numbers in the spaces below immediately after unpacking the products so that the numbers are readily available for future reference. Record field-installed kit numbers after installing the kits.

Transfer Switch Identification Numbers

Record the product identification numbers from the transfer switch nameplate(s).

Model Designation _____

Serial Number: _____

Accessory Number	Accessory Description

Accessory Number	Accessory Description

This manual provides wiring diagrams for the automatic transfer switch models listed on the front cover. Use the chart on the next page to identify the diagrams for your model. Diagrams are arranged in alphanumeric order on the pages following the chart.

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- Visit the Kohler Co. website at KOHLERPower.com.
- Look at the labels and decals on your Kohler product or review the appropriate literature or documents included with the product.
- Call toll free in the US and Canada 1-800-544-2444.
- Outside the US and Canada, call the nearest regional office.

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Bangalore, India

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(91) 80 3366231
Fax: (91) 80 3315972

Japan, Korea

North Asia Regional Office
Tokyo, Japan

Phone: (813) 3440-4515
Fax: (813) 3440-2727

Notes

Schematics and Wiring Diagrams

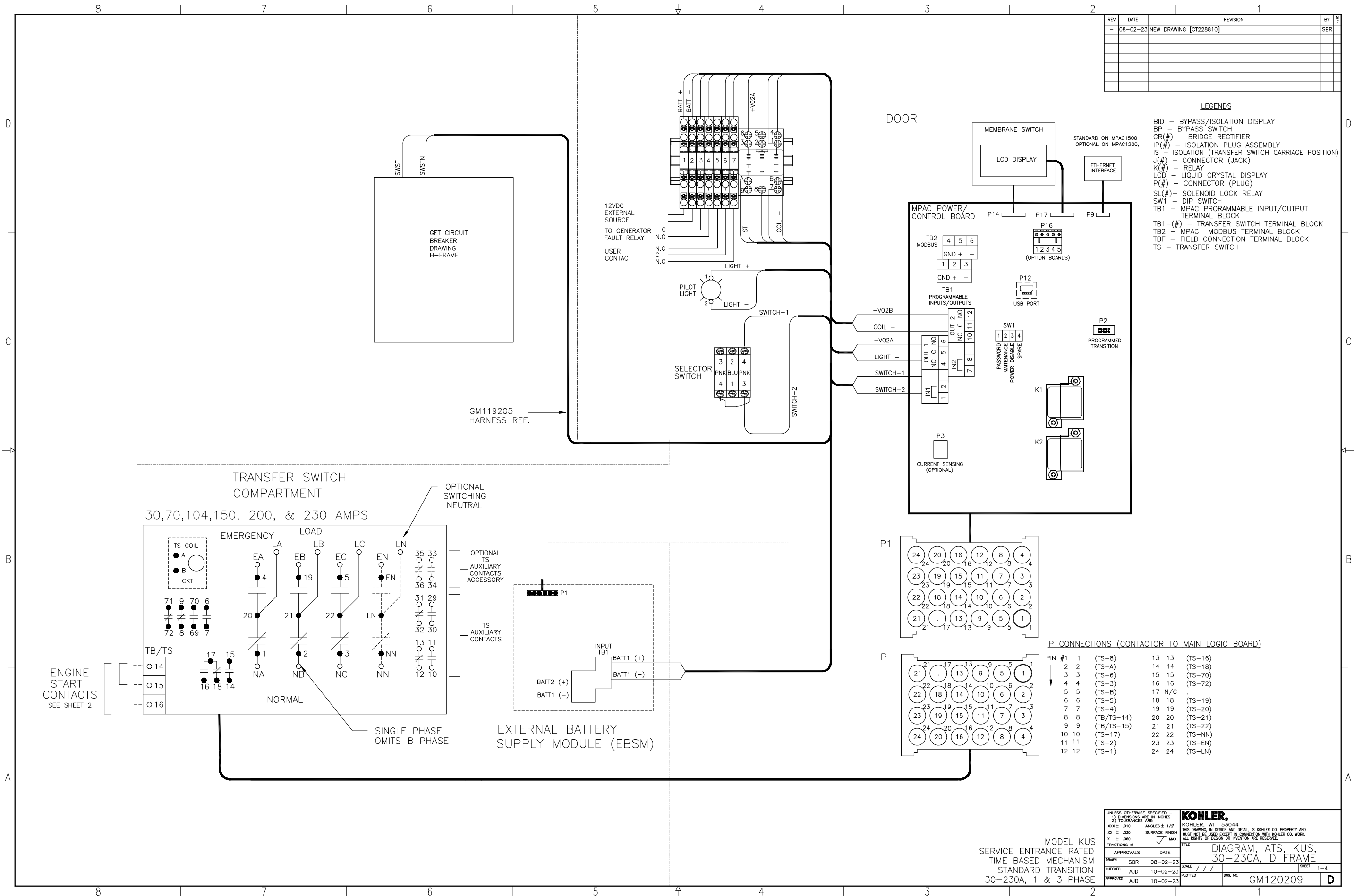
The drawings listed in the table below apply to all KCS/KCP/KCC/KSSB models equipped with the Decision-Maker® MPAC 1500 controller.

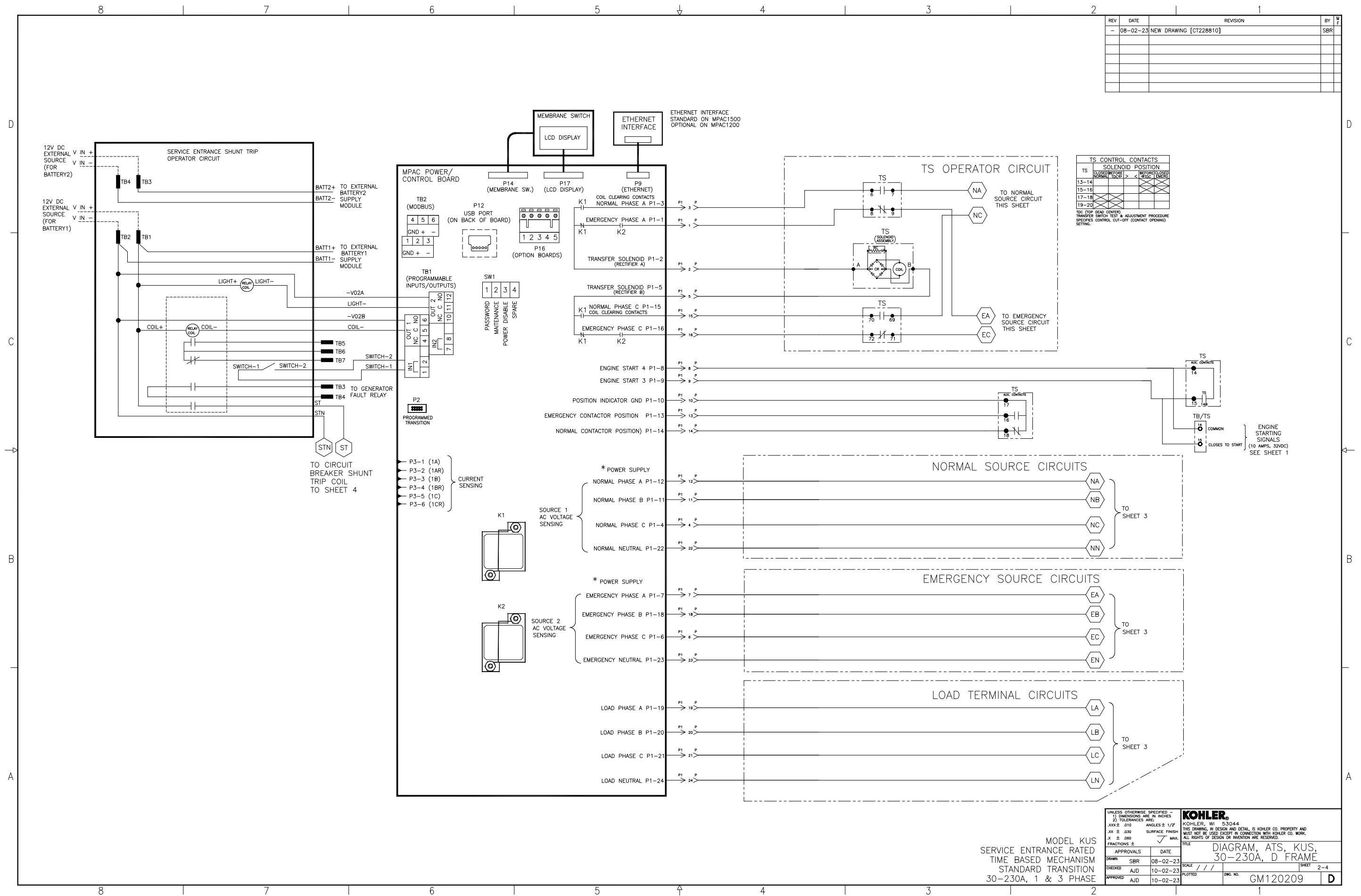
Model	Transition	Amps	Volts	Wiring/Schematic Diagram	Page
KUS	Standard	70-200	208-600	GM120209	7-10
		225	208-480	GM120209	7-10
		225	600	GM120210	11-15
		250-600	208-600	GM120210	11-15
		800-1200	208-600	GM120211	16-20
		1600-4000	208-600	GM120212	21-25
KUP	Programmed	150-600	208-600	GM120213	26-30
		800-1200	208-600	GM120214	31-35
		1600-4000	208-600	GM120215	36-41

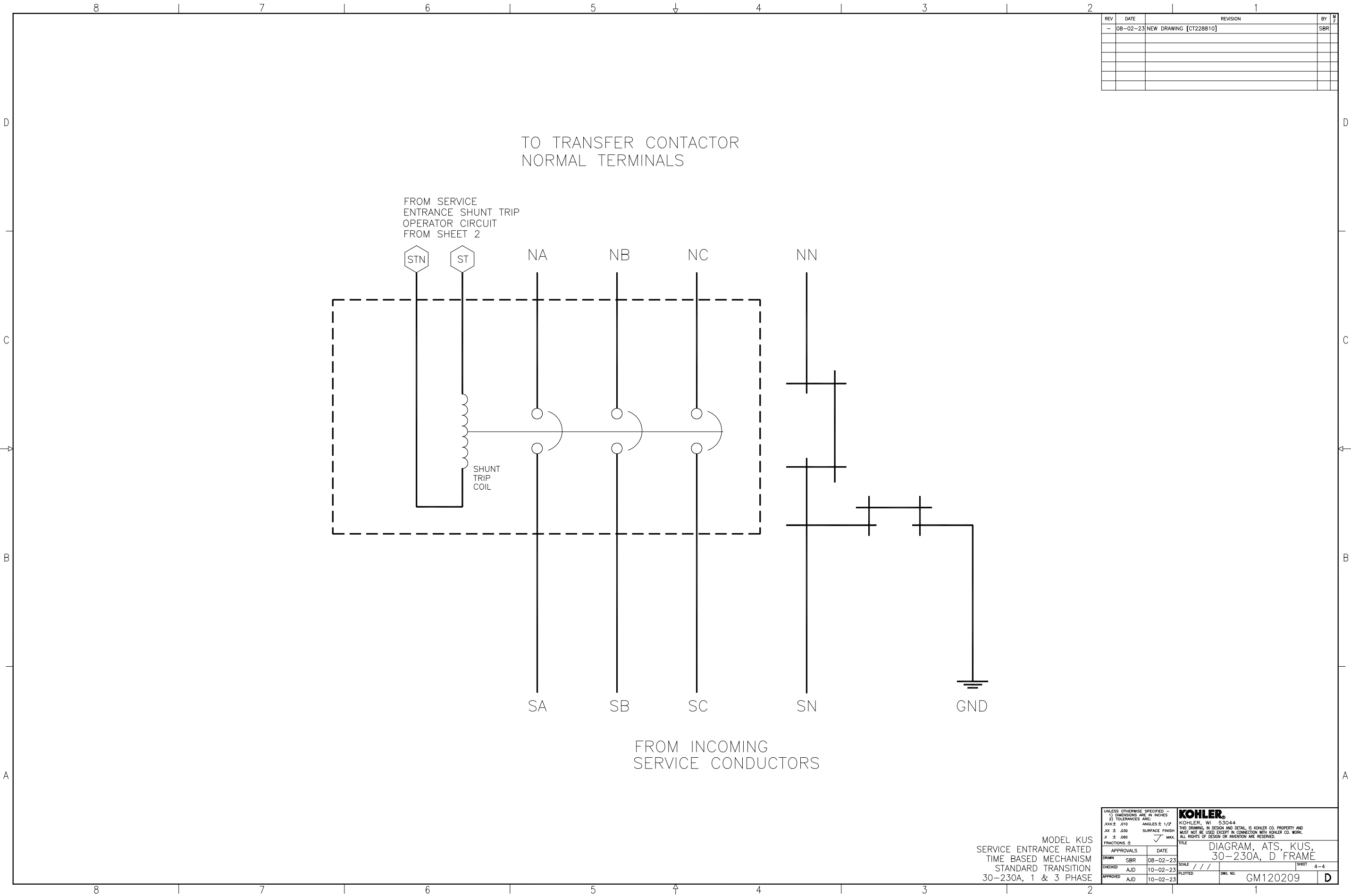
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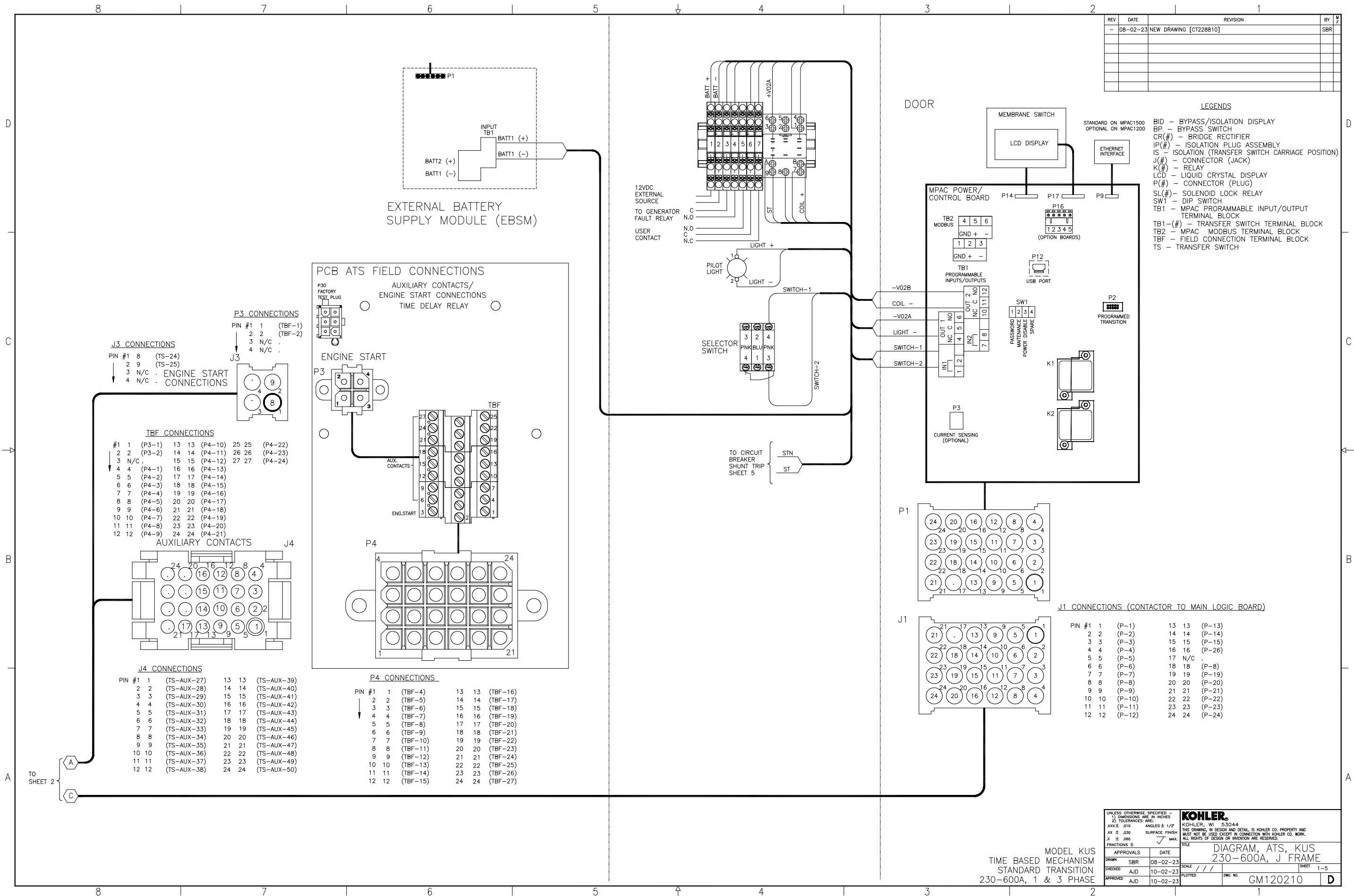
Drawings are arranged in alphanumeric order on the following pages.

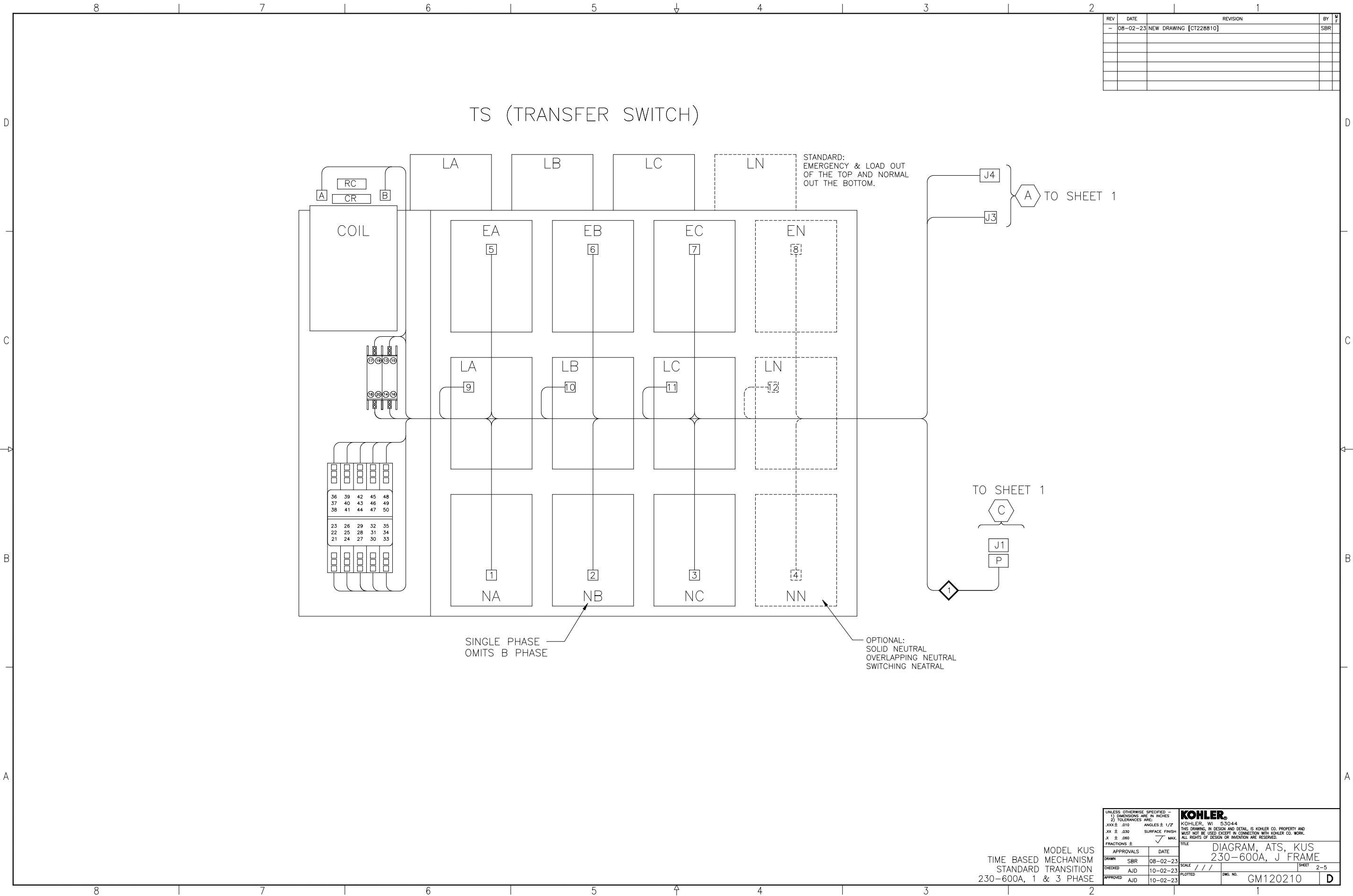
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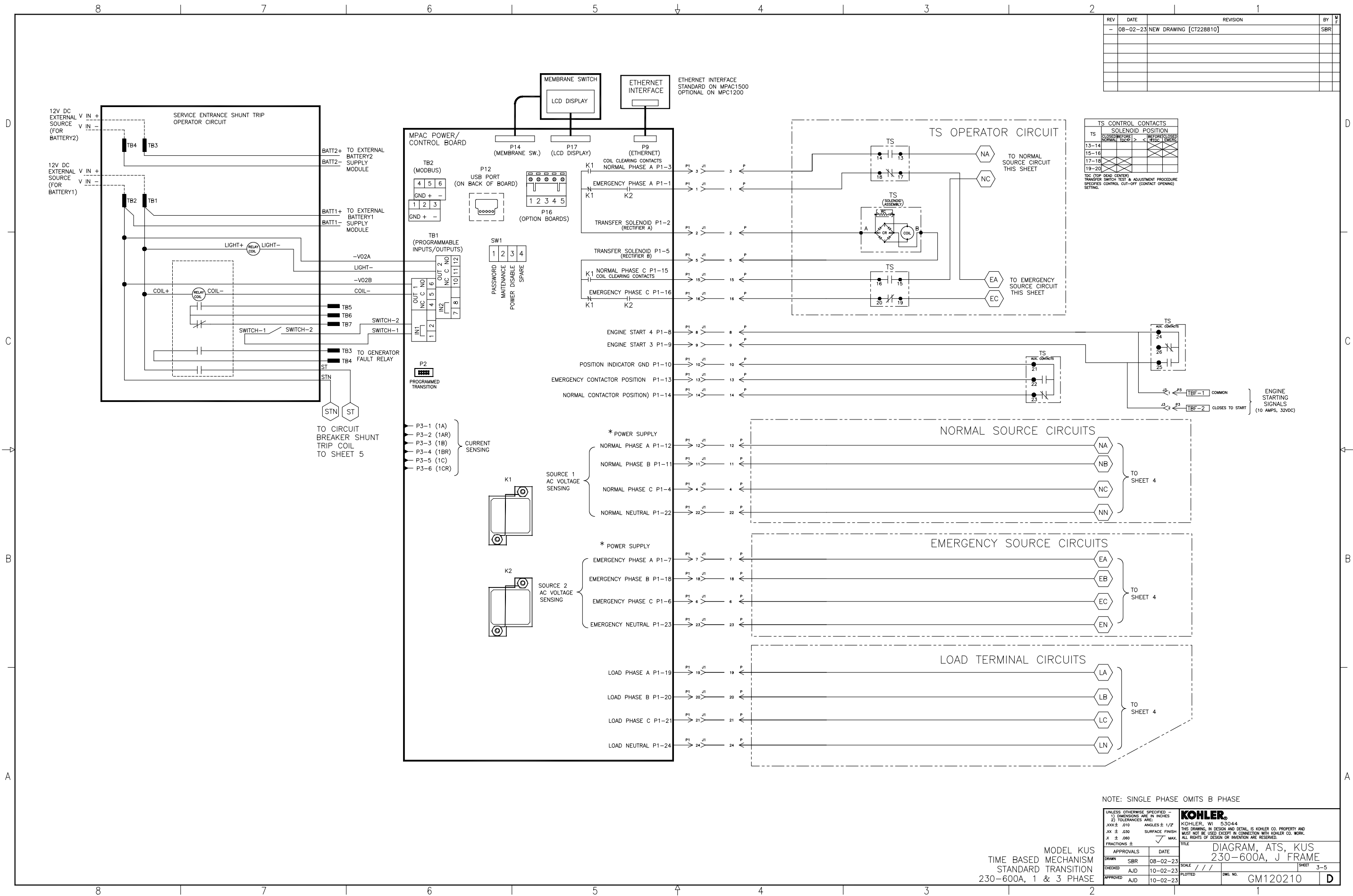


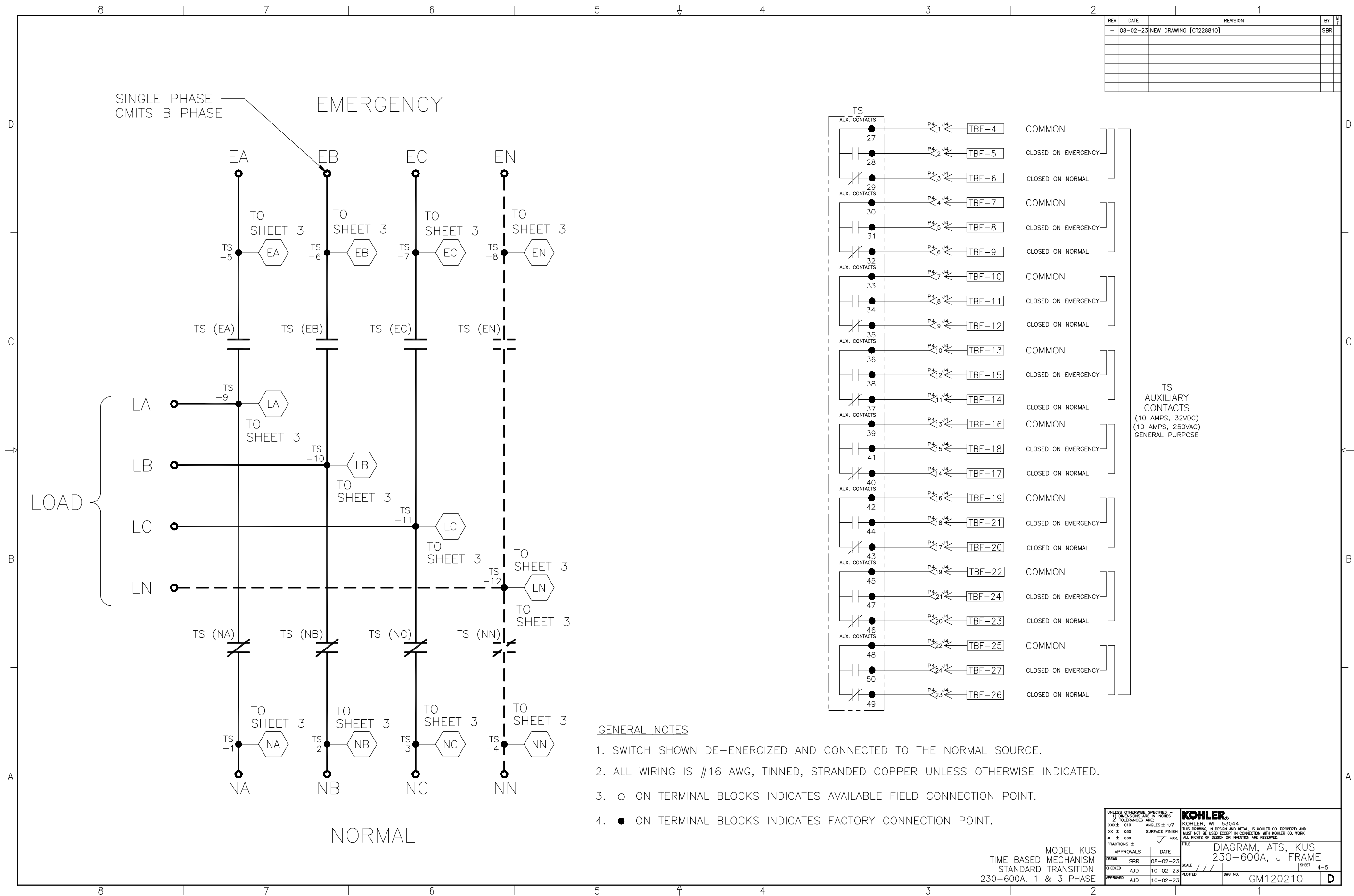


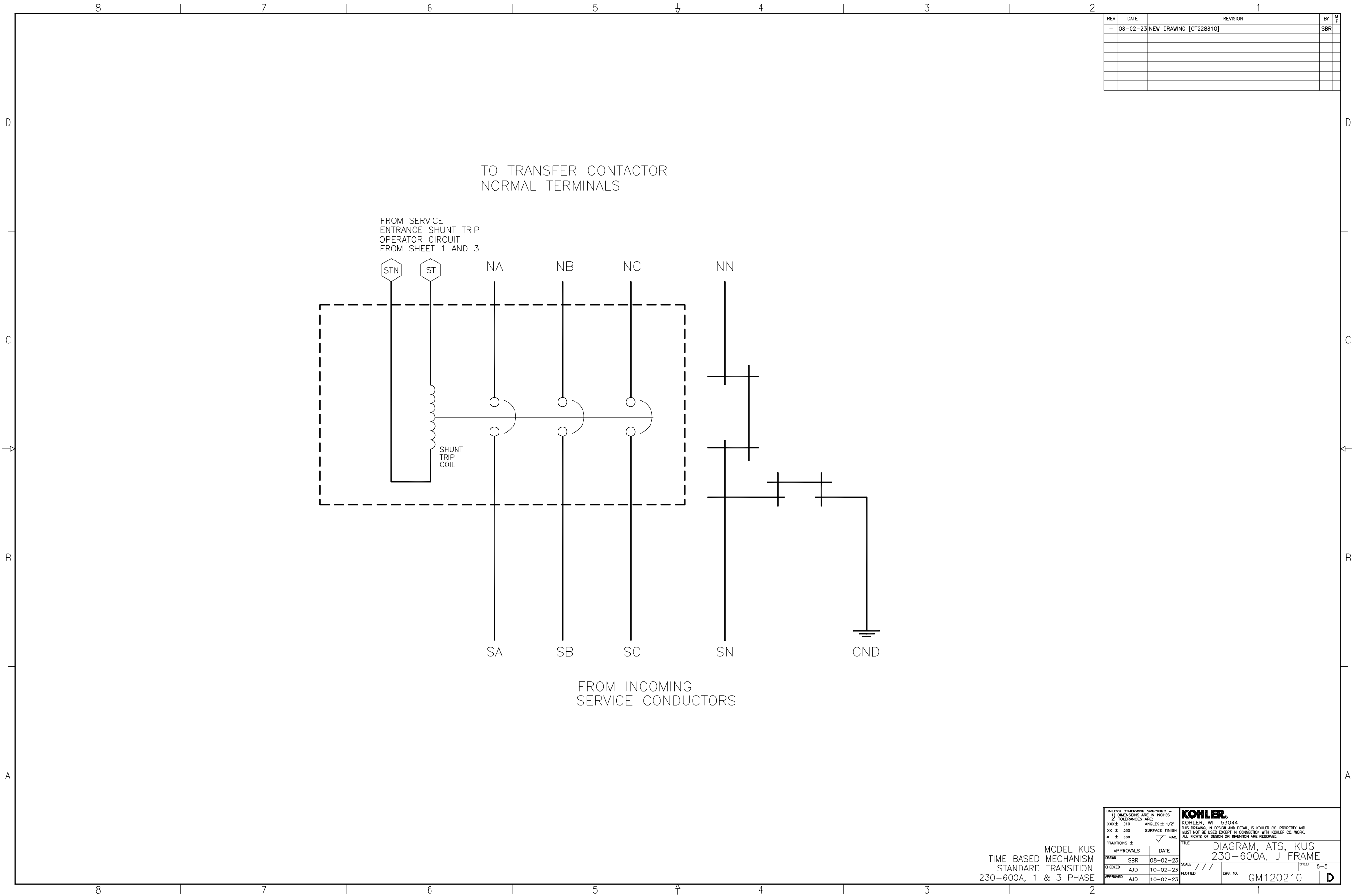


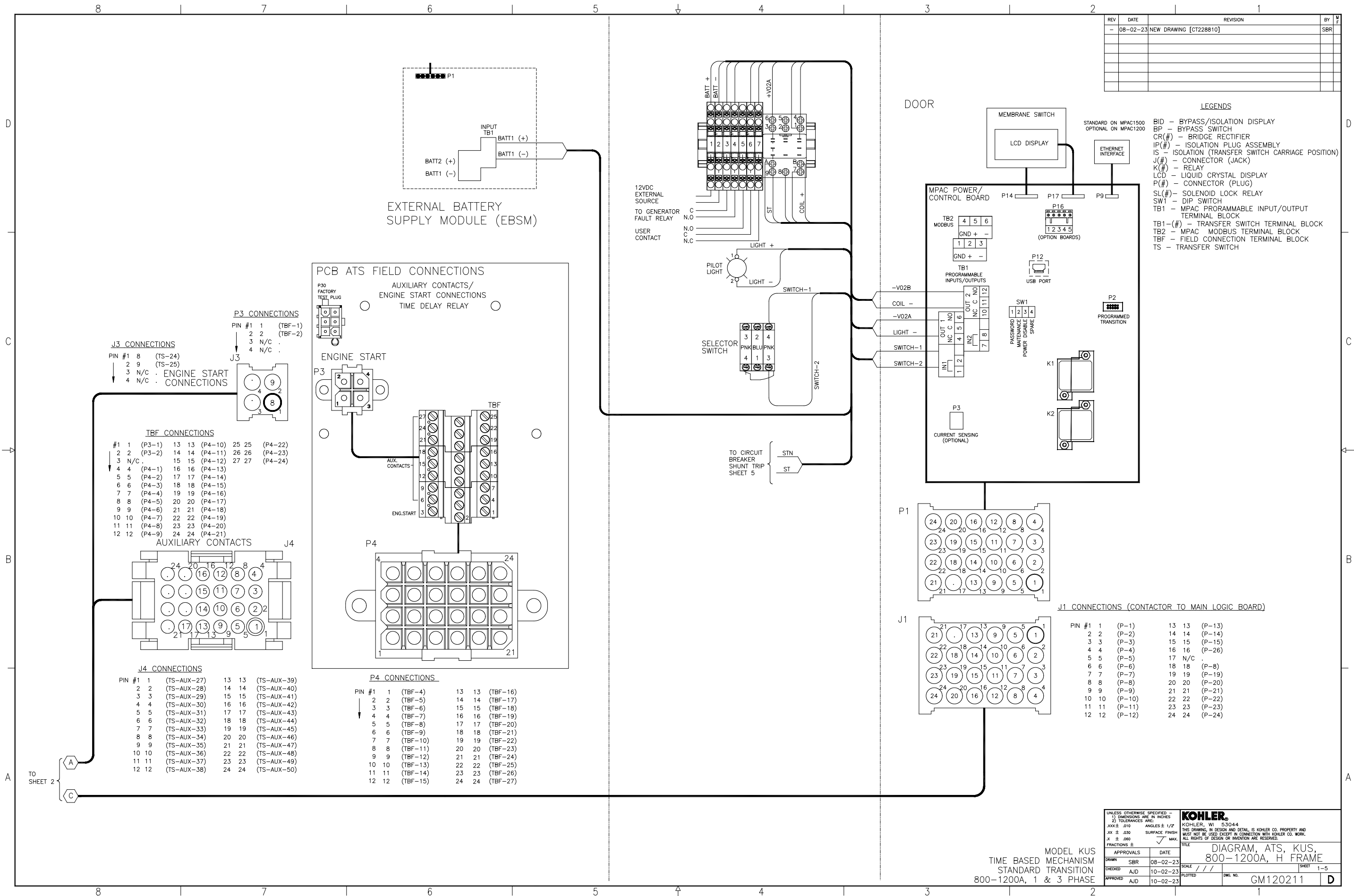


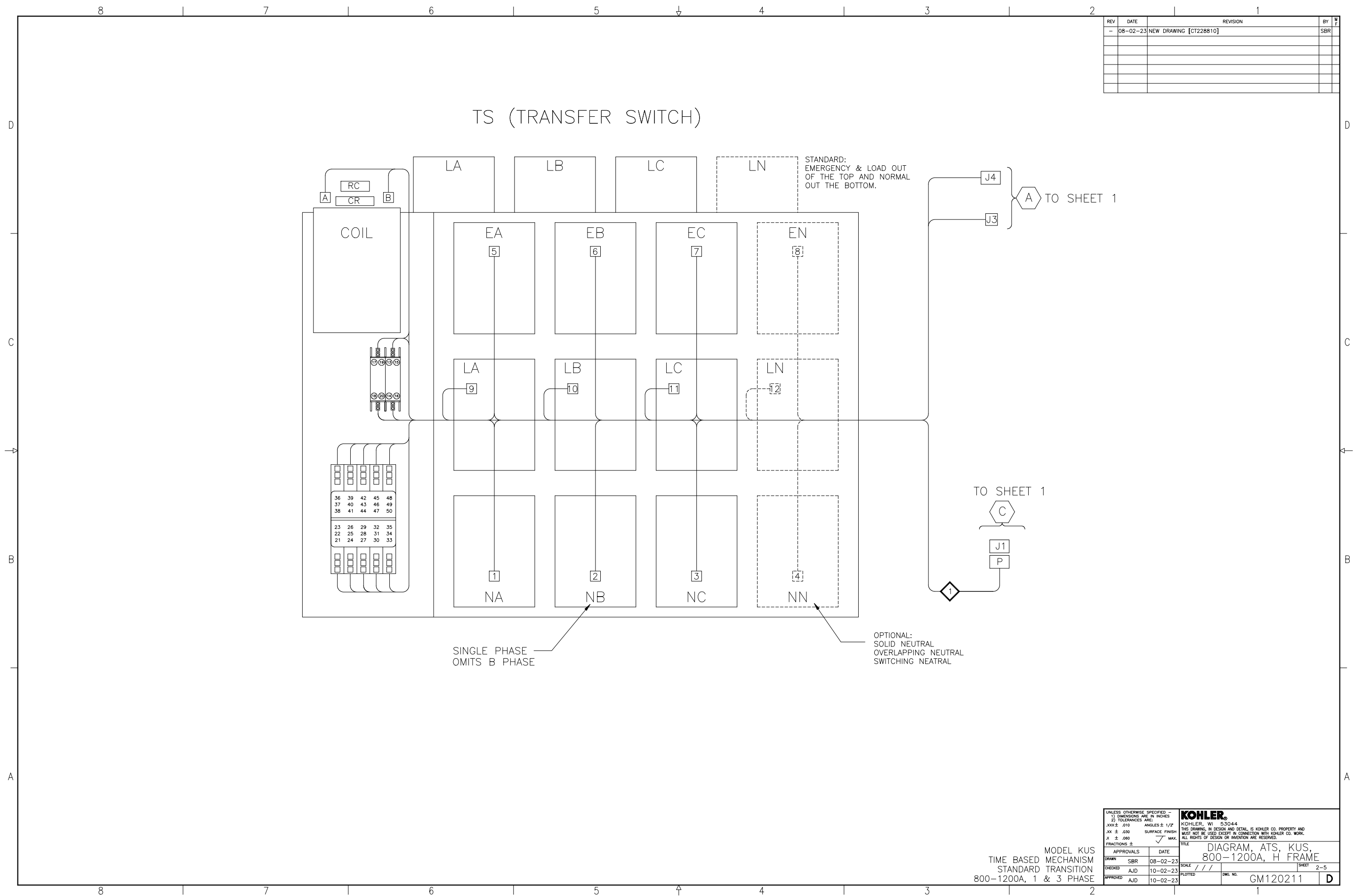


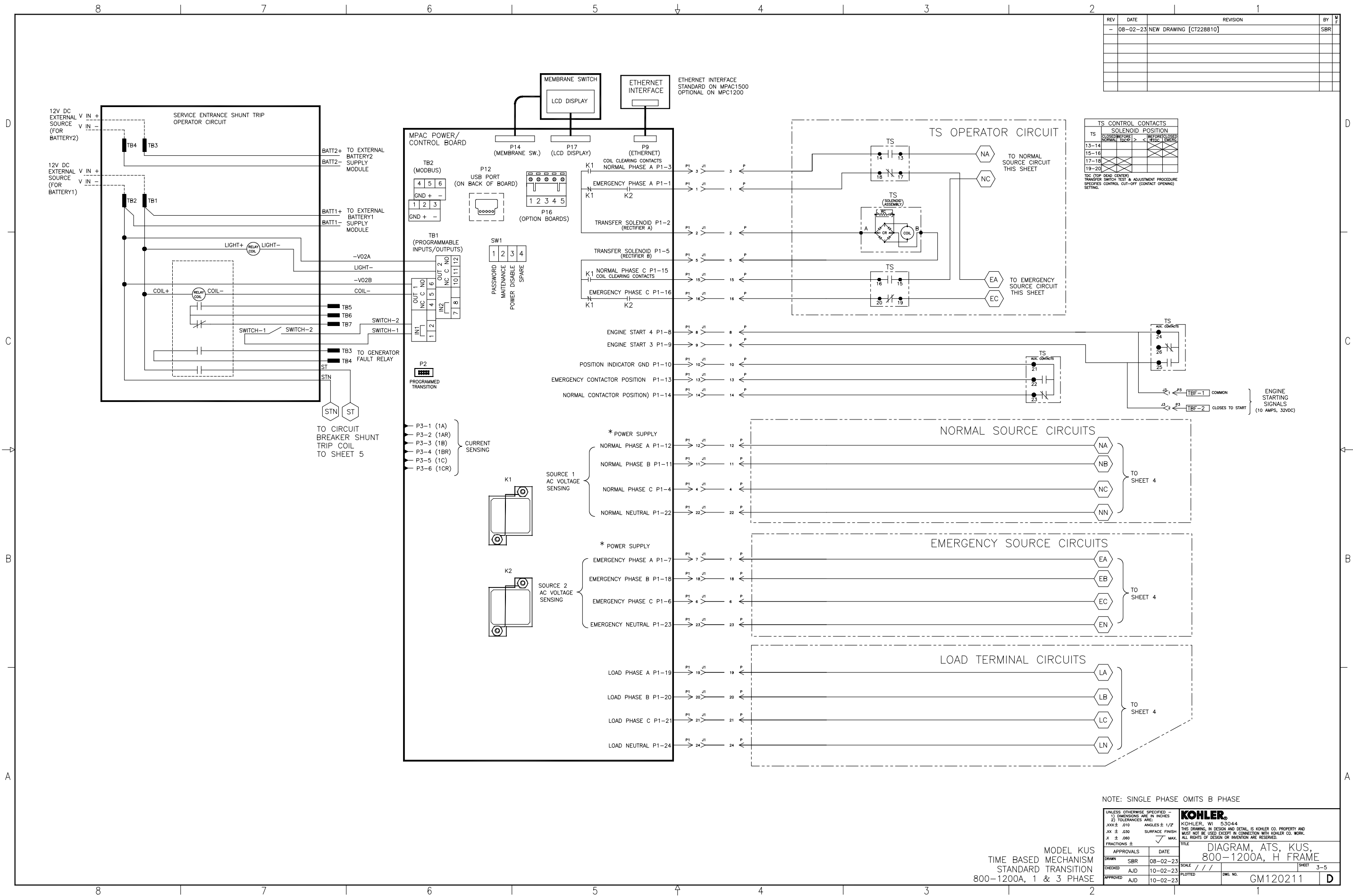


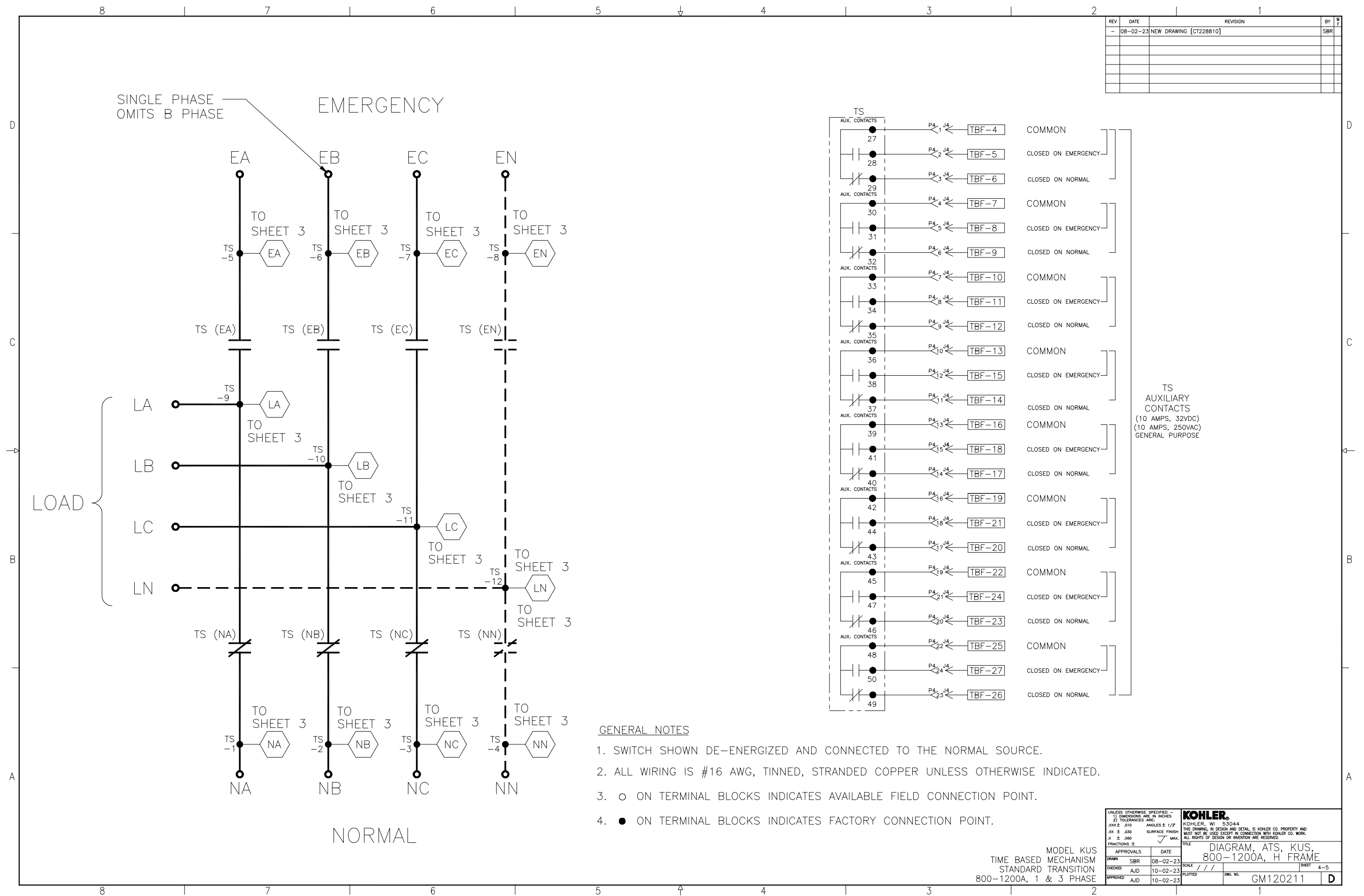


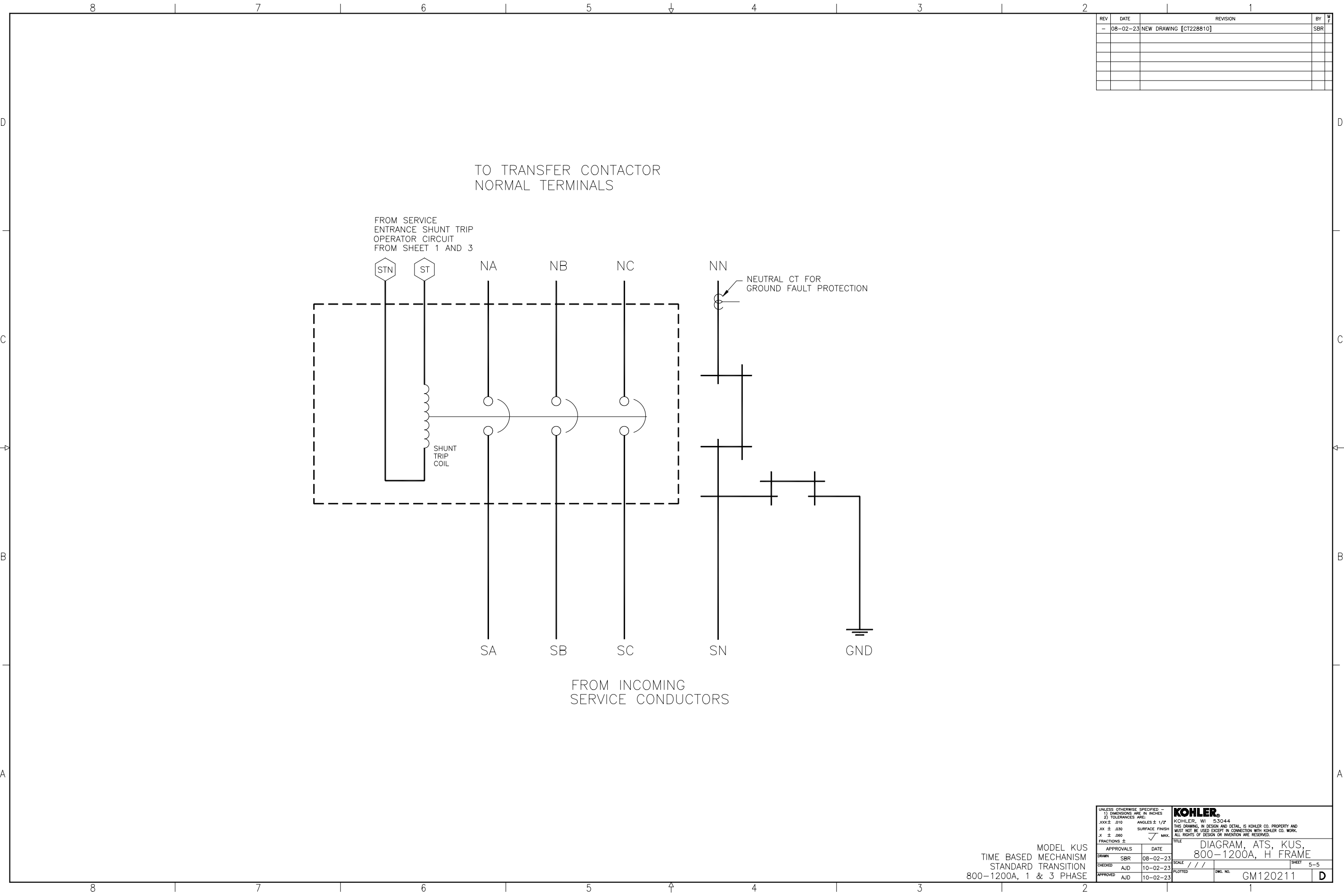












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-	8-14-23	NEW DRAWING [CT228810]	SBR

LEGENDS

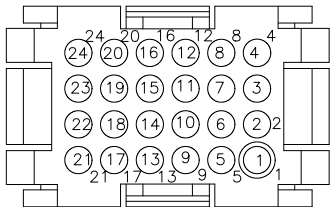
BID - BYPASS/ISOLATION DISPLAY
BP - BYPASS SWITCH
CR(##) - BRIDGE RECTIFIER
IP(##) - ISOLATION PLUG ASSEMBLY
IS - ISOLATION (TRANSFER SWITCH CARRIAGE POSITION)
J(##) - CONNECTOR (JACK)
K(##) - RELAY
LCD - LIQUID CRYSTAL DISPLAY
P(##) - CONNECTOR (PLUG)
SL(##) - SOLENOID LOCK RELAY
SW1 - DIP SWITCH
TB1 - MPAC PROGRAMMABLE INPUT/OUTPUT TERMINAL BLOCK
TB1-(##) - TRANSFER SWITCH TERMINAL BLOCK
TB2 - MPAC MODBUS TERMINAL BLOCK
TBF - FIELD CONNECTION TERMINAL BLOCK
TS - TRANSFER SWITCH

J3 CONNECTIONS
PIN #1 8 (TS-24)
2 9 (TS-25)
3 N/C
4 N/C

ENGINE START CONNECTIONS

TBF CONNECTIONS			
#1	1 (P3-1)	13 13 (P4-10)	25 25 (P4-22)
2	2 (P3-2)	14 14 (P4-11)	26 26 (P4-23)
3	NC	15 15 (P4-12)	27 27 (P4-24)
4	4 (P4-1)	16 16 (P4-13)	
5	5 (P4-2)	17 17 (P4-14)	
6	6 (P4-3)	18 18 (P4-15)	
7	7 (P4-4)	19 19 (P4-16)	
8	8 (P4-5)	20 20 (P4-17)	
9	9 (P4-6)	21 21 (P4-18)	
10	10 (P4-7)	22 22 (P4-19)	
11	11 (P4-8)	23 23 (P4-20)	
12	12 (P4-9)	24 24 (P4-21)	

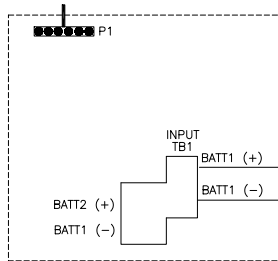
AUXILIARY CONTACTS



J4 CONNECTIONS			
PIN #1	1 (TS-27)	13 13 (TS-39)	
2	2 (TS-28)	14 14 (TS-40)	
3	3 (TS-29)	15 15 (TS-41)	
4	4 (TS-30)	16 16 (TS-42)	
5	5 (TS-31)	17 17 (TS-43)	
6	6 (TS-32)	18 18 (TS-44)	
7	7 (TS-33)	19 19 (TS-45)	
8	8 (TS-34)	20 20 (TS-46)	
9	9 (TS-35)	21 21 (TS-47)	
10	10 (TS-36)	22 22 (TS-48)	
11	11 (TS-37)	23 23 (TS-49)	
12	12 (TS-38)	24 24 (TS-50)	

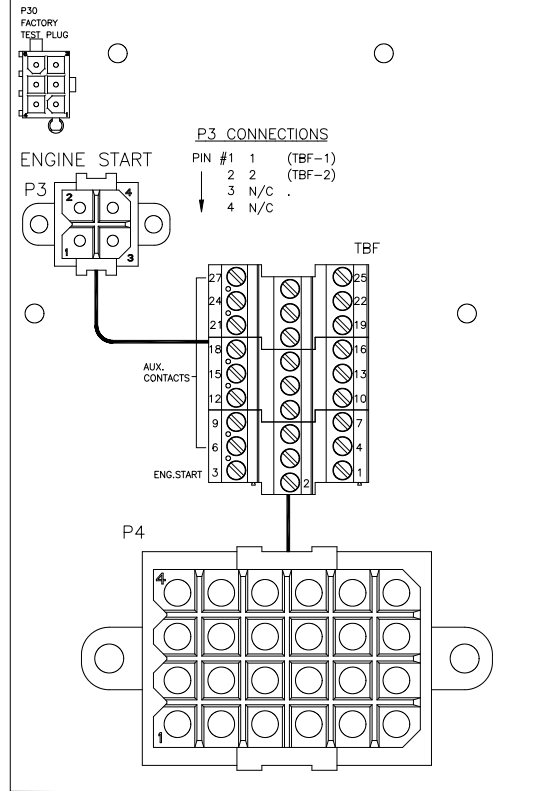
P4 CONNECTIONS (AUXILIARY CONTACTS)			
PIN #1	1 (TBF-4)	13 13 (TBF-16)	
2	2 (TBF-5)	14 14 (TBF-17)	
3	3 (TBF-6)	15 15 (TBF-18)	
4	4 (TBF-7)	16 16 (TBF-19)	
5	5 (TBF-8)	17 17 (TBF-20)	
6	6 (TBF-9)	18 18 (TBF-21)	
7	7 (TBF-10)	19 19 (TBF-22)	
8	8 (TBF-11)	20 20 (TBF-23)	
9	9 (TBF-12)	21 21 (TBF-24)	
10	10 (TBF-13)	22 22 (TBF-25)	
11	11 (TBF-14)	23 23 (TBF-26)	
12	12 (TBF-15)	24 24 (TBF-27)	

EXTERNAL BATTERY SUPPLY MODULE (EBSM)



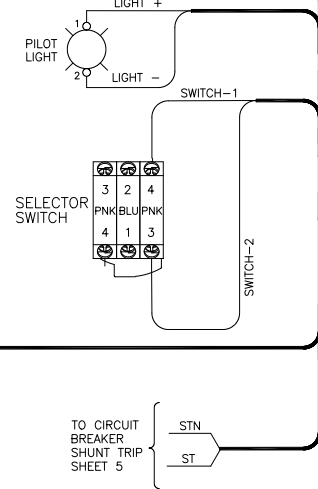
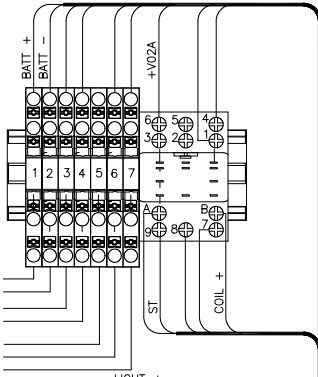
ENCLOSURE

PCB ATS FIELD CONNECTIONS



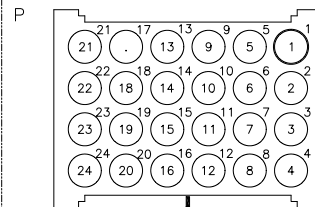
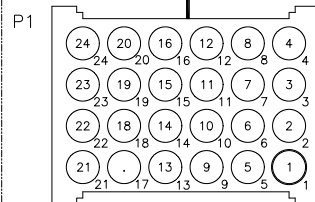
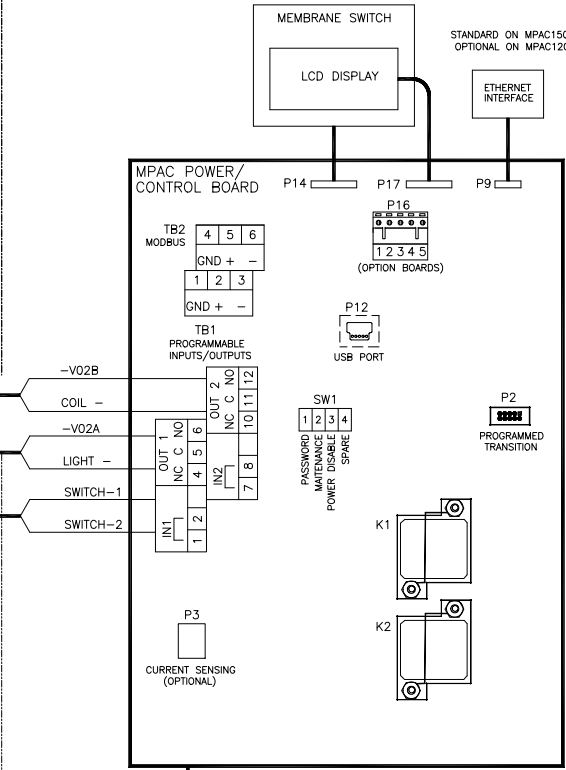
P3 CONNECTIONS
PIN #1 1 (TBF-1)
2 2 (TBF-2)
3 N/C
4 N/C

12VDC EXTERNAL SOURCE
TO GENERATOR FAULT RELAY
USER CONTACT
C
N.O.
C
N.C.



TO CIRCUIT BREAKER SHUNT TRIP SHEET 5
STN
ST

DOOR

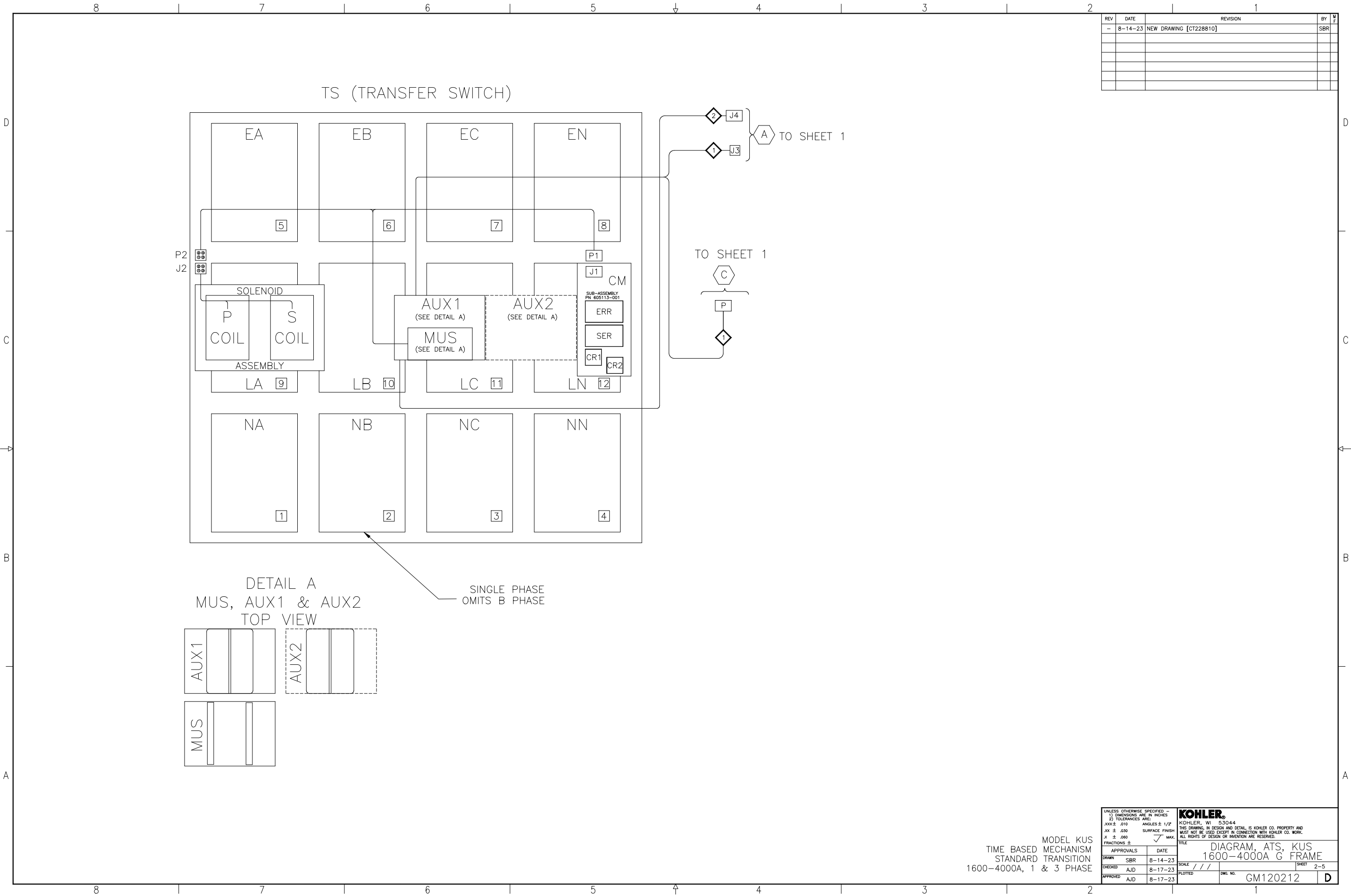


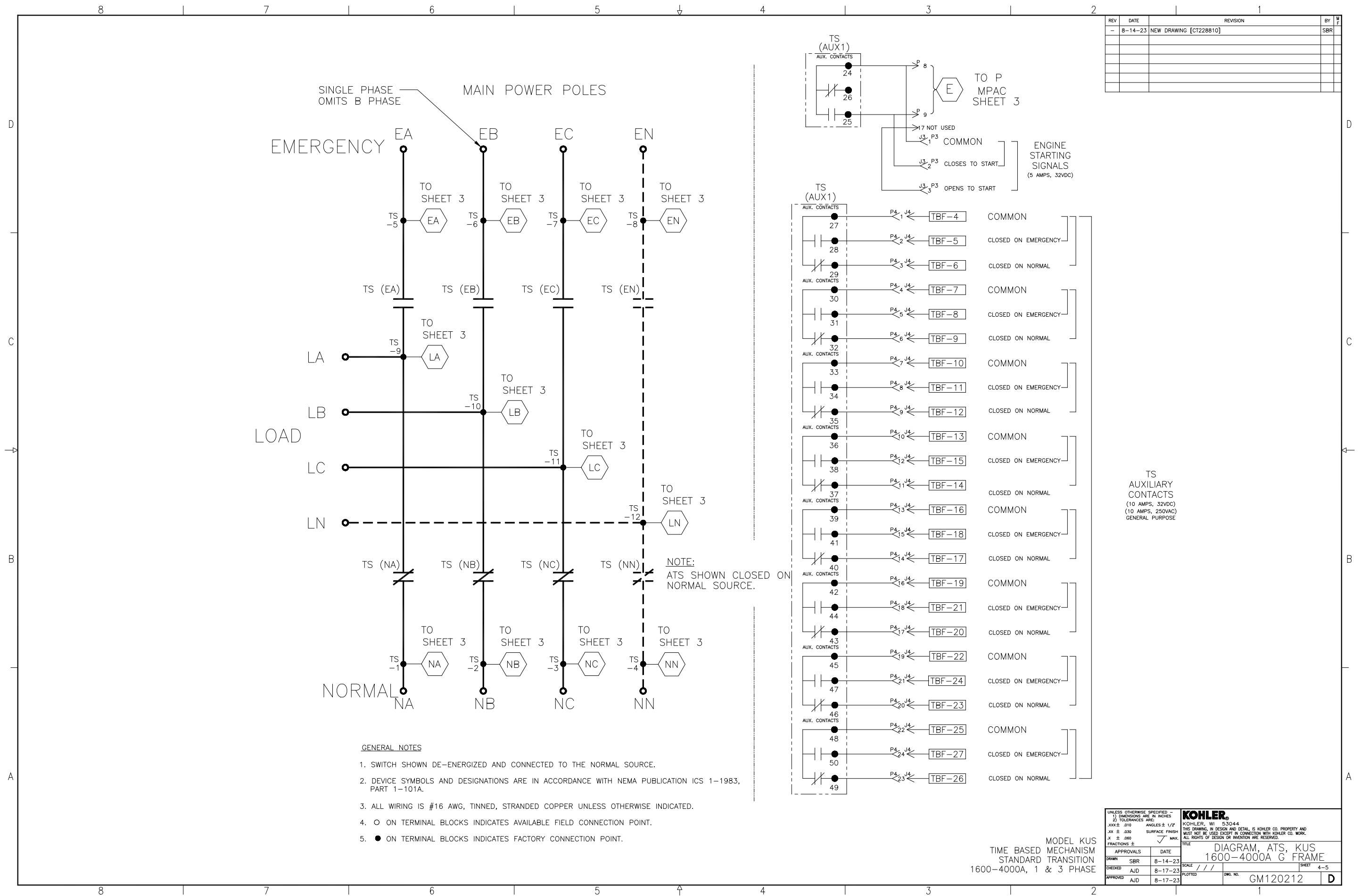
P CONNECTIONS (CONTACTOR TO MAIN LOGIC BOARD)

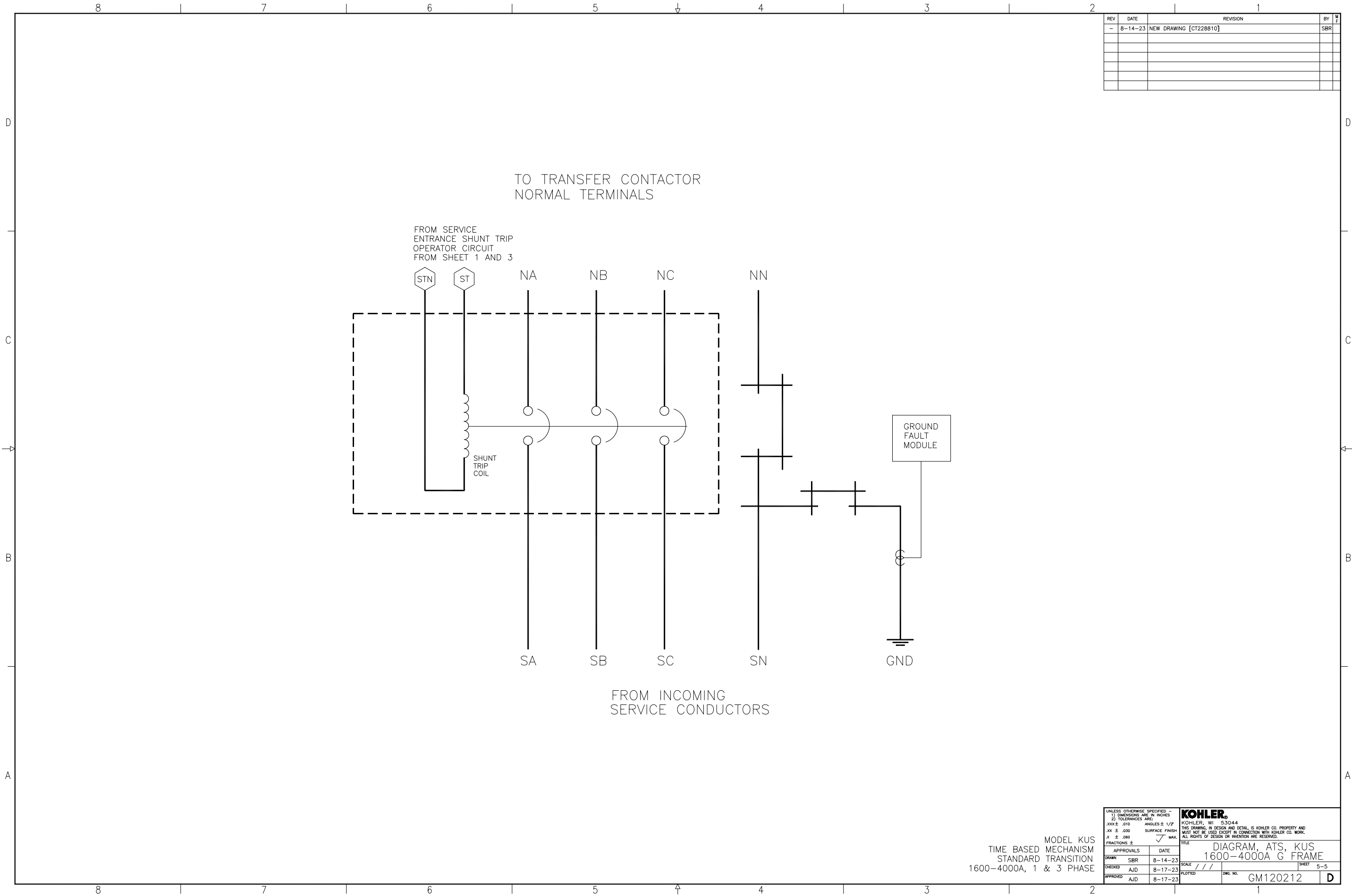
Pin#	1 (CN-18)	13 13 (TS-22)
2	2 (P1-17)	14 14 (TS-23)
3	3 (P1-14)	15 15 (TS-16)
4	4 (TS-3)	16 16 (P1-16)
5	5 (P1-18)	17 N/C
6	6 (TS-7)	18 18 (TS-6)
7	7 (TS-5)	19 19 (TS-9)
8	8 (TS-24)	20 20 (TS-10)
9	9 (TS-25)	21 21 (TS-11)
10	10 (CN-66)	22 22 (TS-4)
11	11 (TS-2)	23 23 (TS-8)
12	12 (TS-1)	24 24 (TS-12)

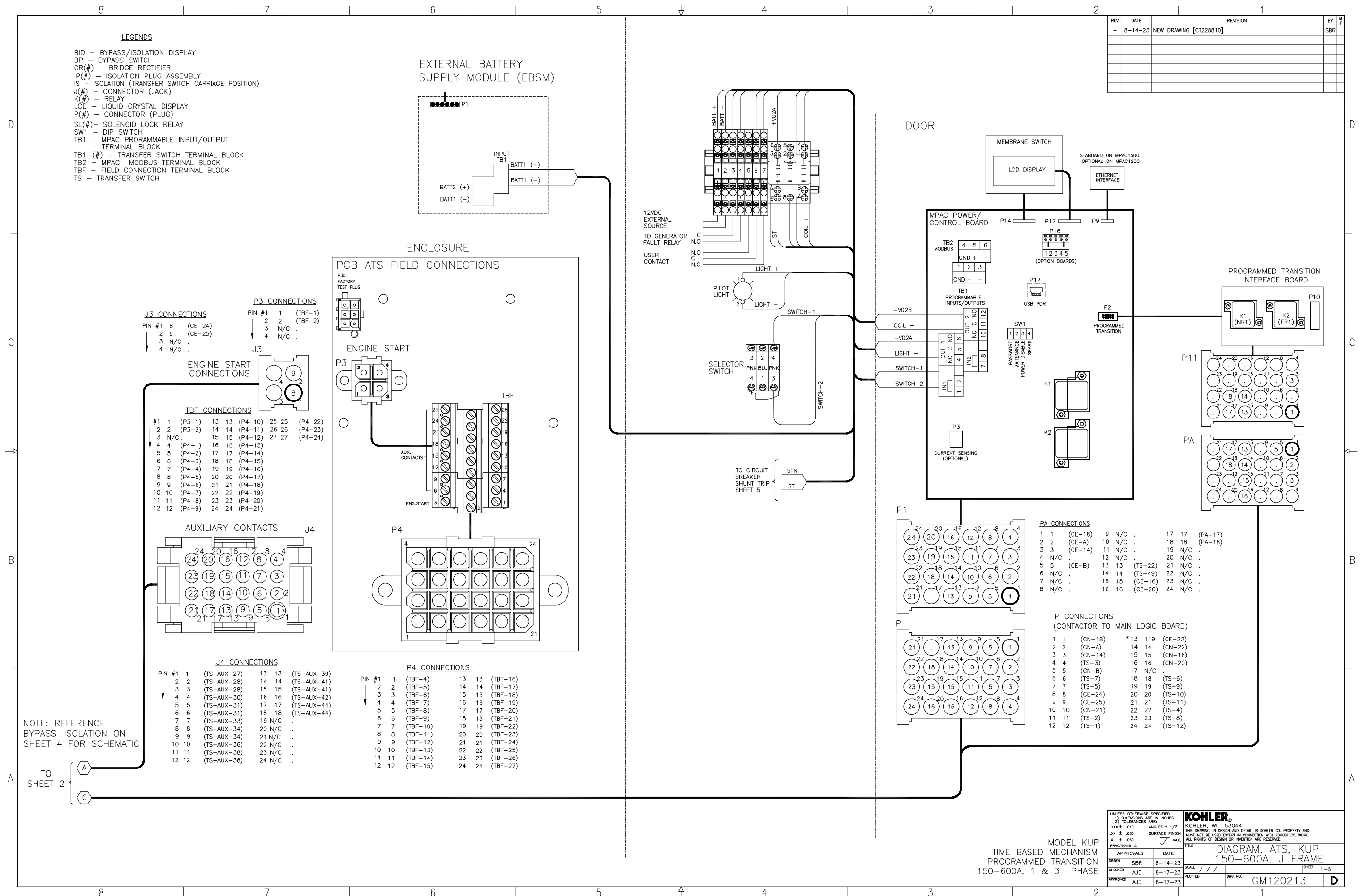
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APPROVALS	DATE	TITLE	SHEET
DRAWN SBR	8-14-23	DIAGRAM, ATS, KUS 1600-4000A G FRAME	1-5
CHECKED AJD	8-17-23	SCALE	PLOTTED
APPROVED AJD	8-17-23	DWG. NO.	GM120212

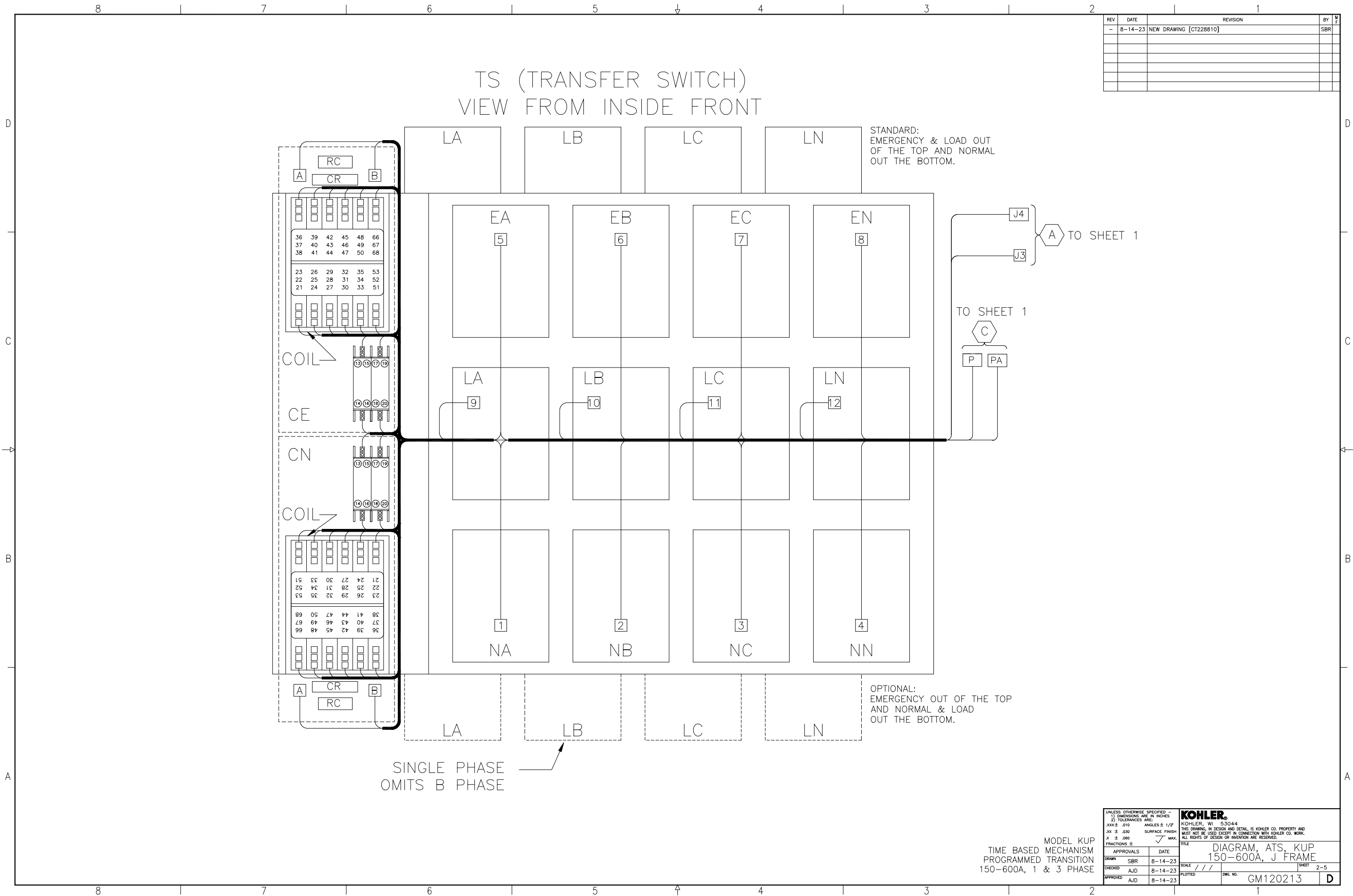
MODEL KUS
TIME BASED MECHANISM
STANDARD TRANSITION
1600-4000A, 1 & 3 PHASE

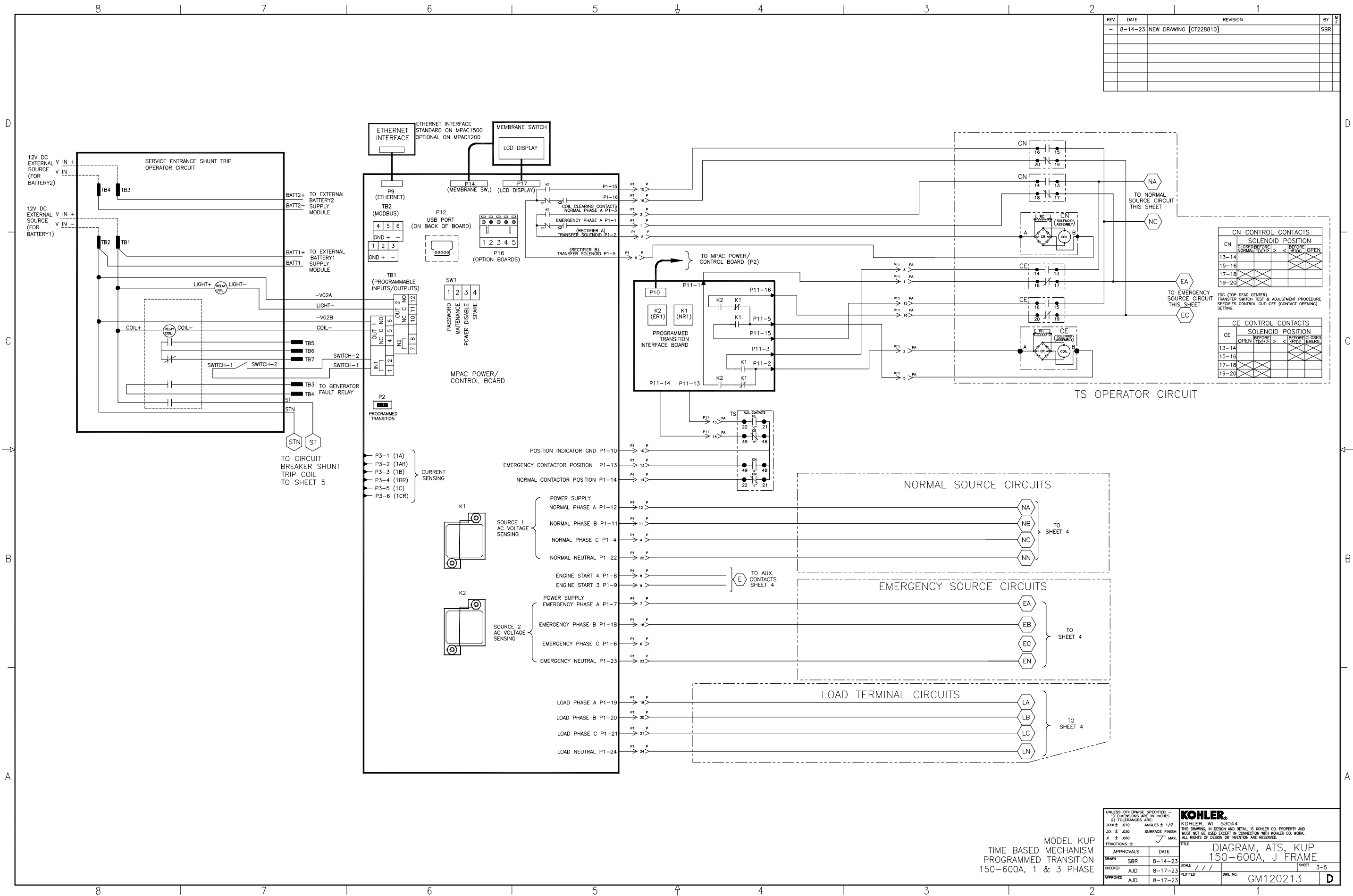


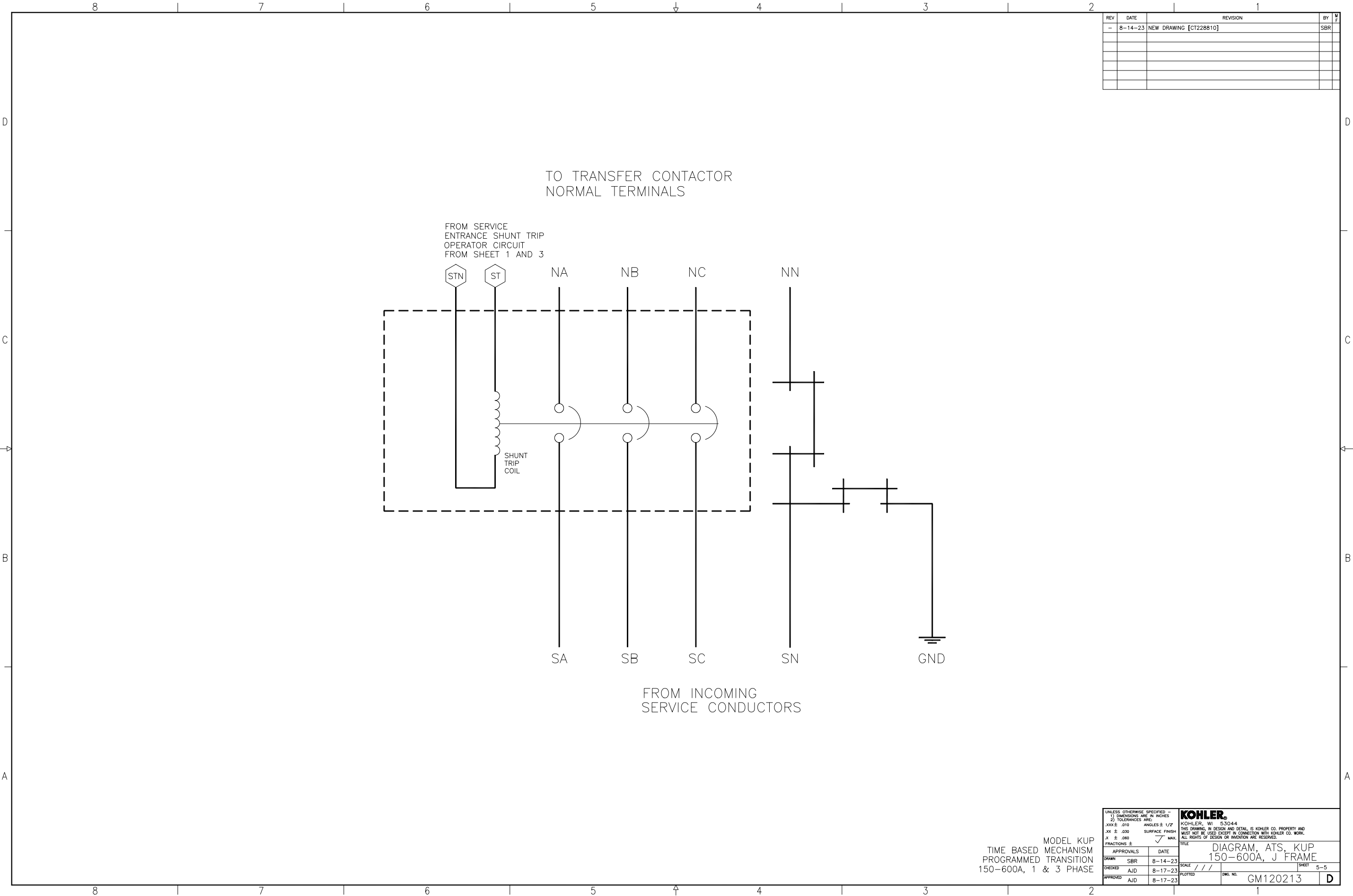


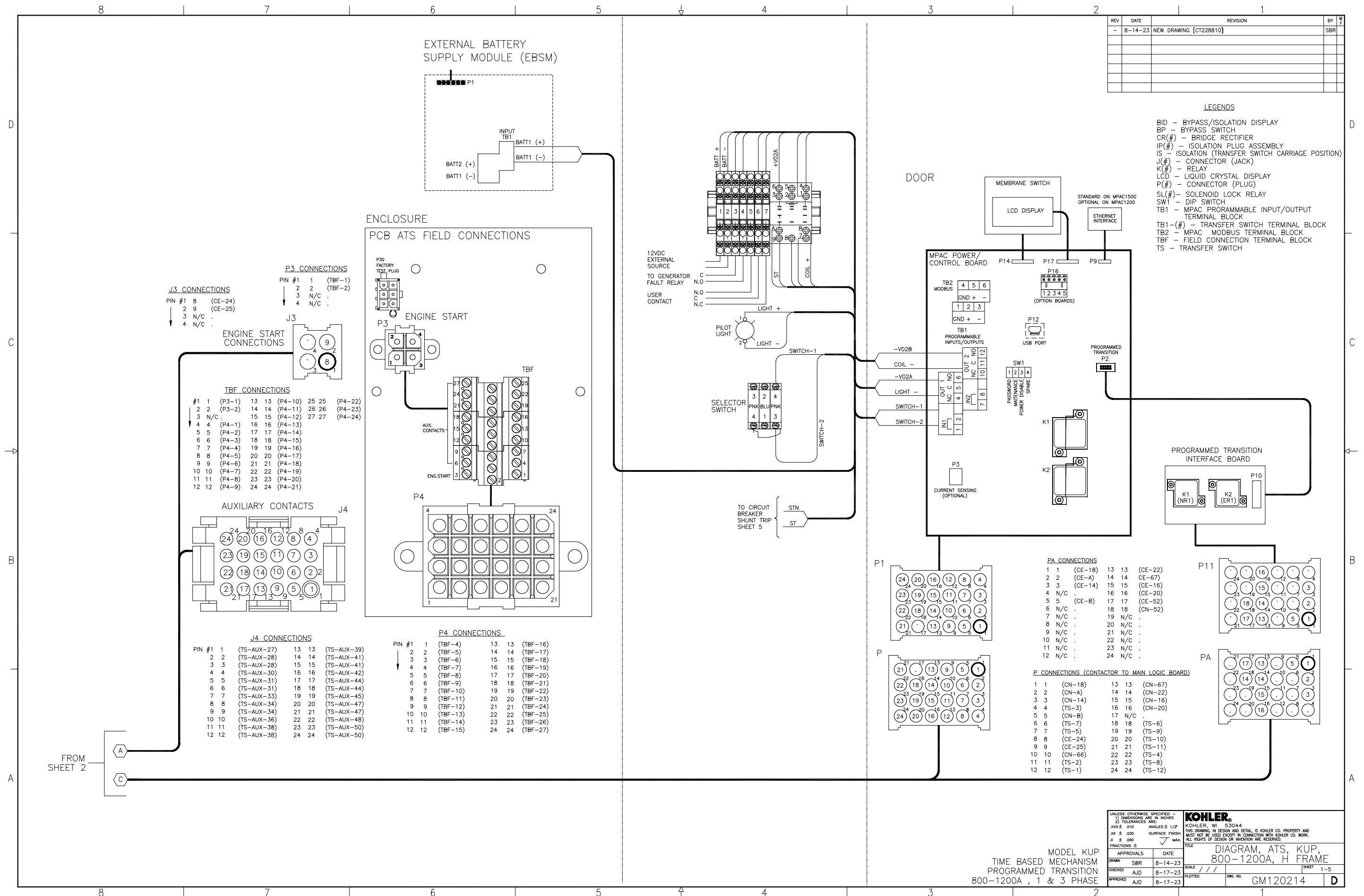


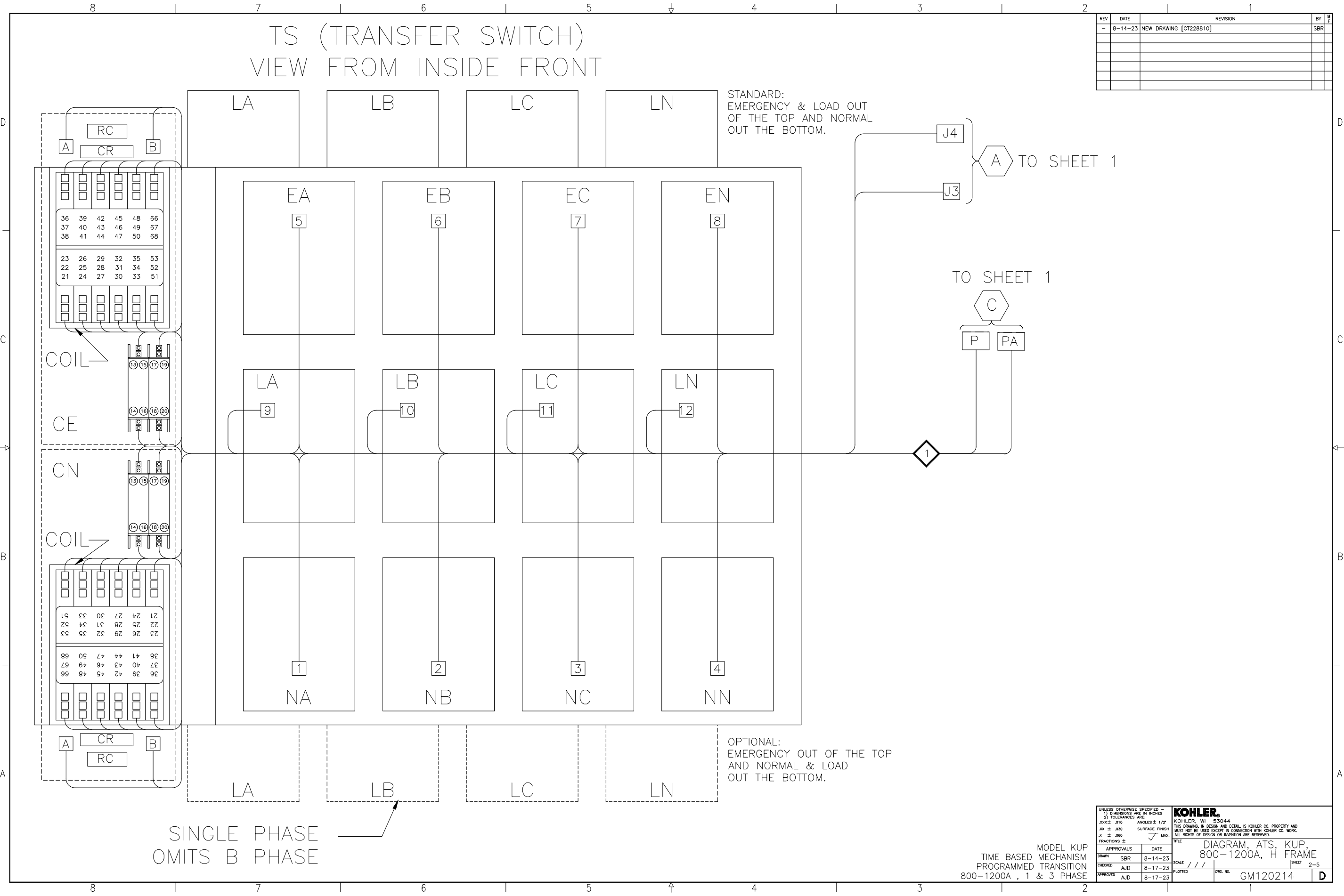








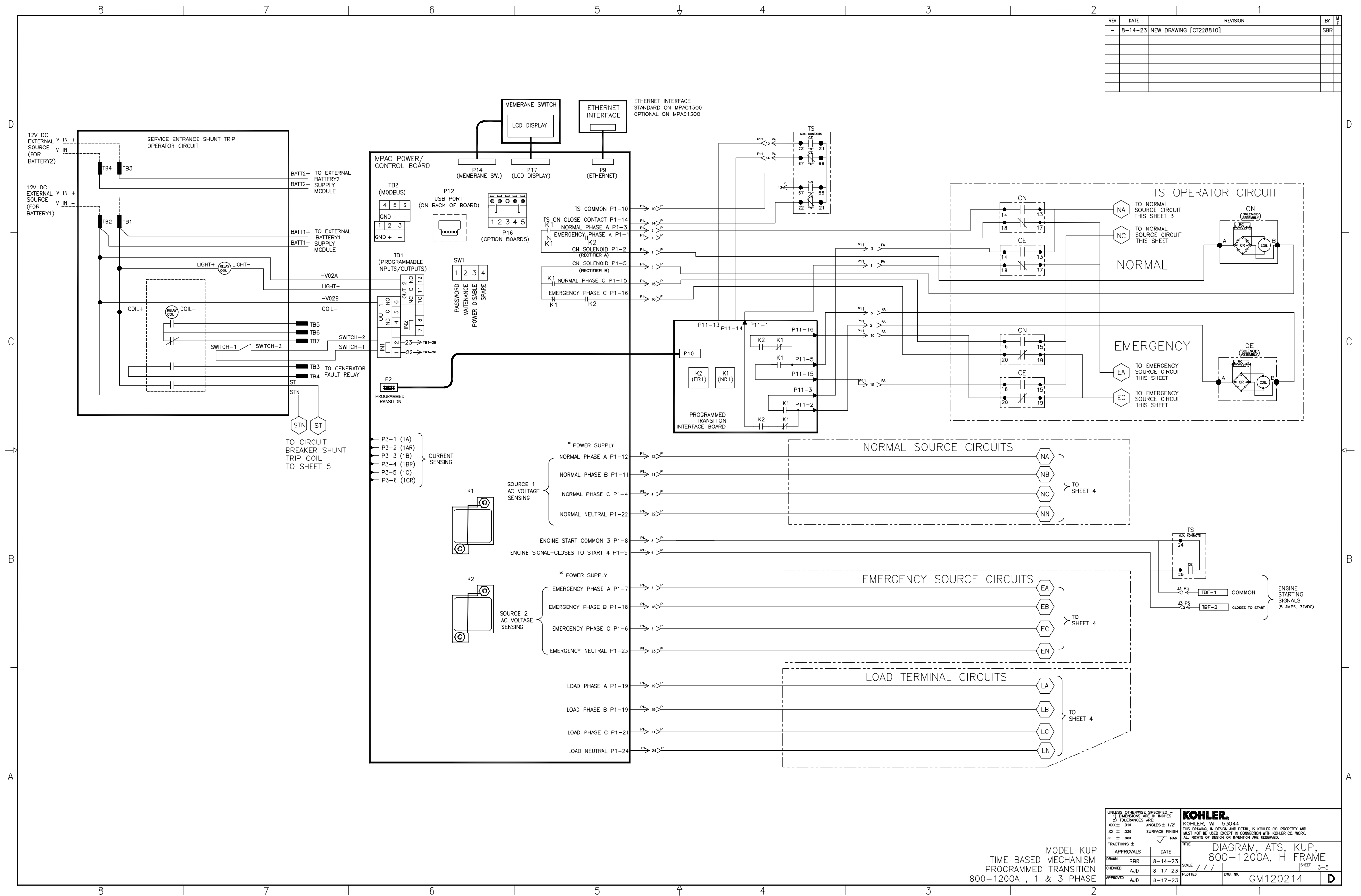


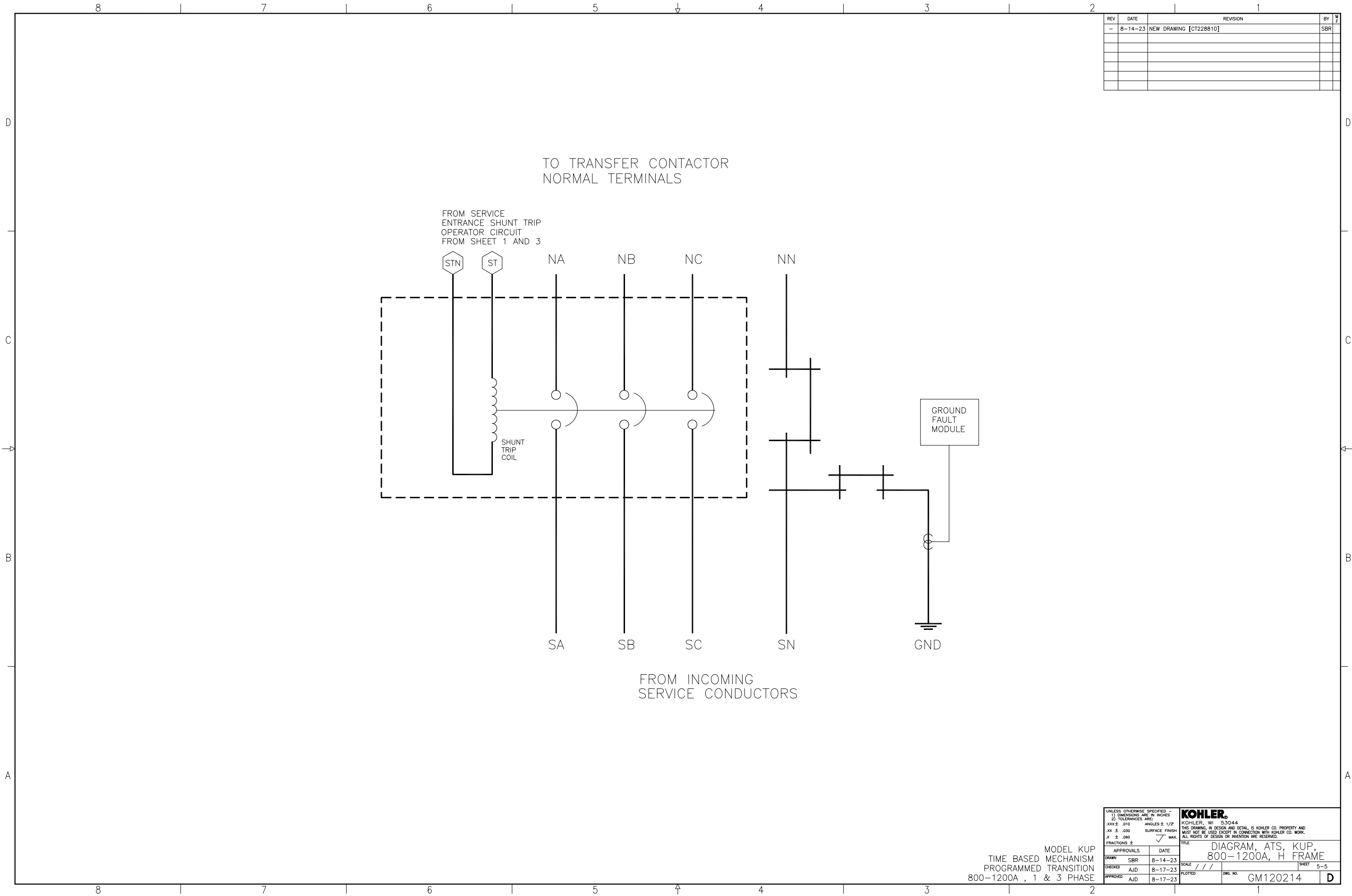


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APPROVALS	DATE	TITLE	
DRAWN SBR	8-14-23	DIAGRAM, ATS, KUP, 800-1200A, H FRAME	
CHECKED AJD	8-17-23	SCALE	SHEET 2-5
APPROVED AJD	8-17-23	PLOTTED	DWG. NO. GM120214

MODEL KUP
TIME BASED MECHANISM
PROGRAMMED TRANSITION
800-1200A , 1 & 3 PHASE

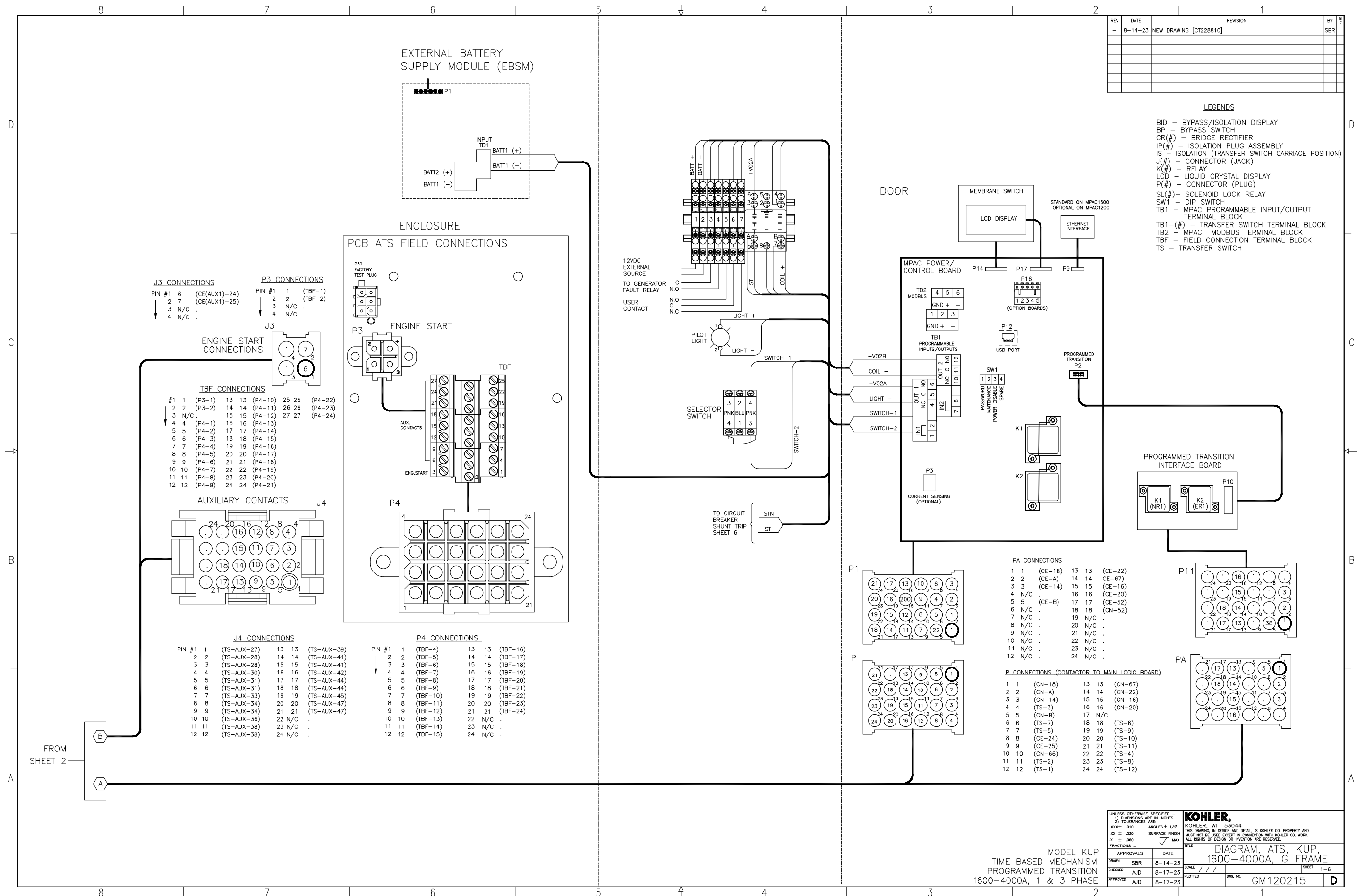


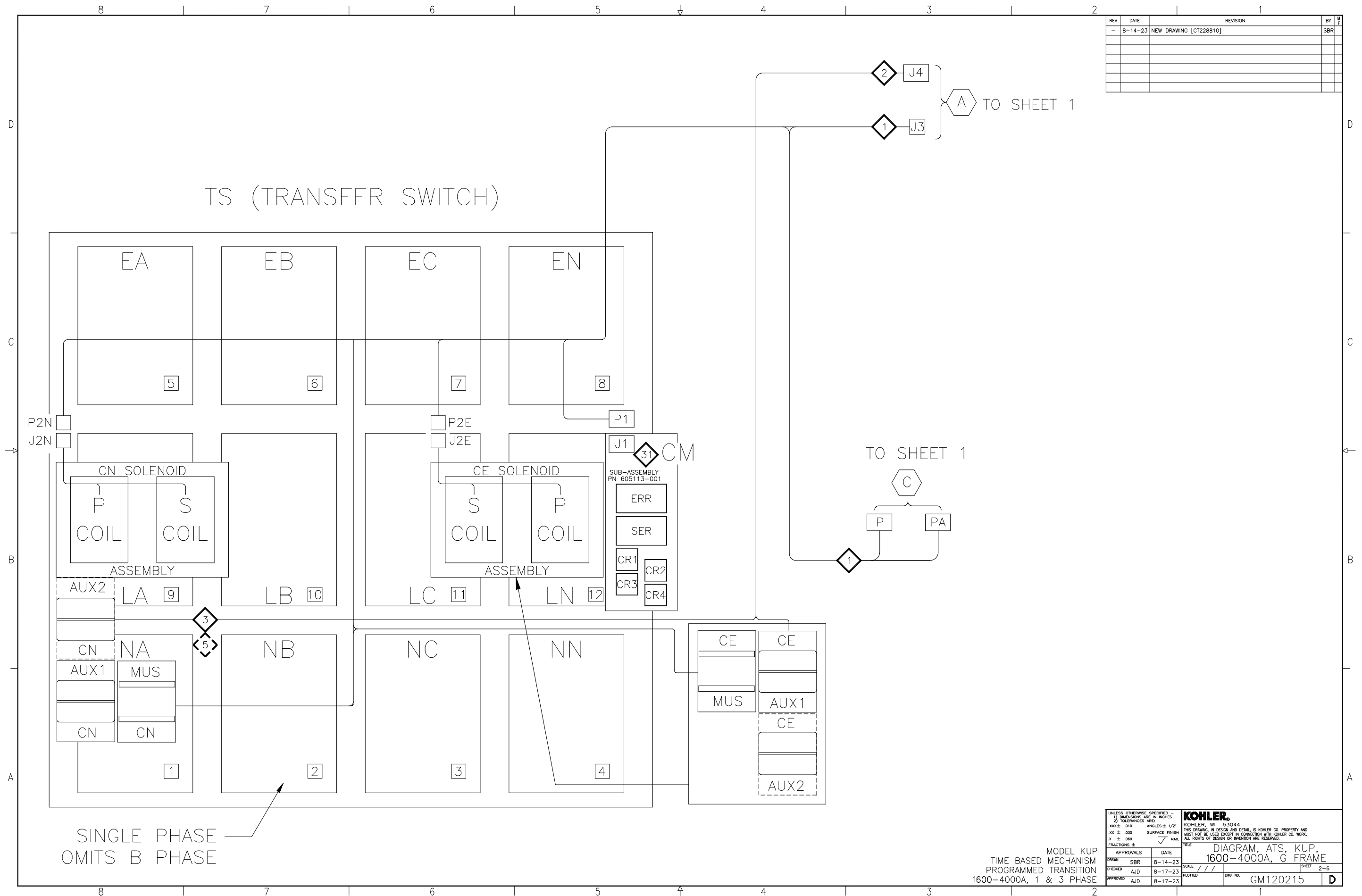


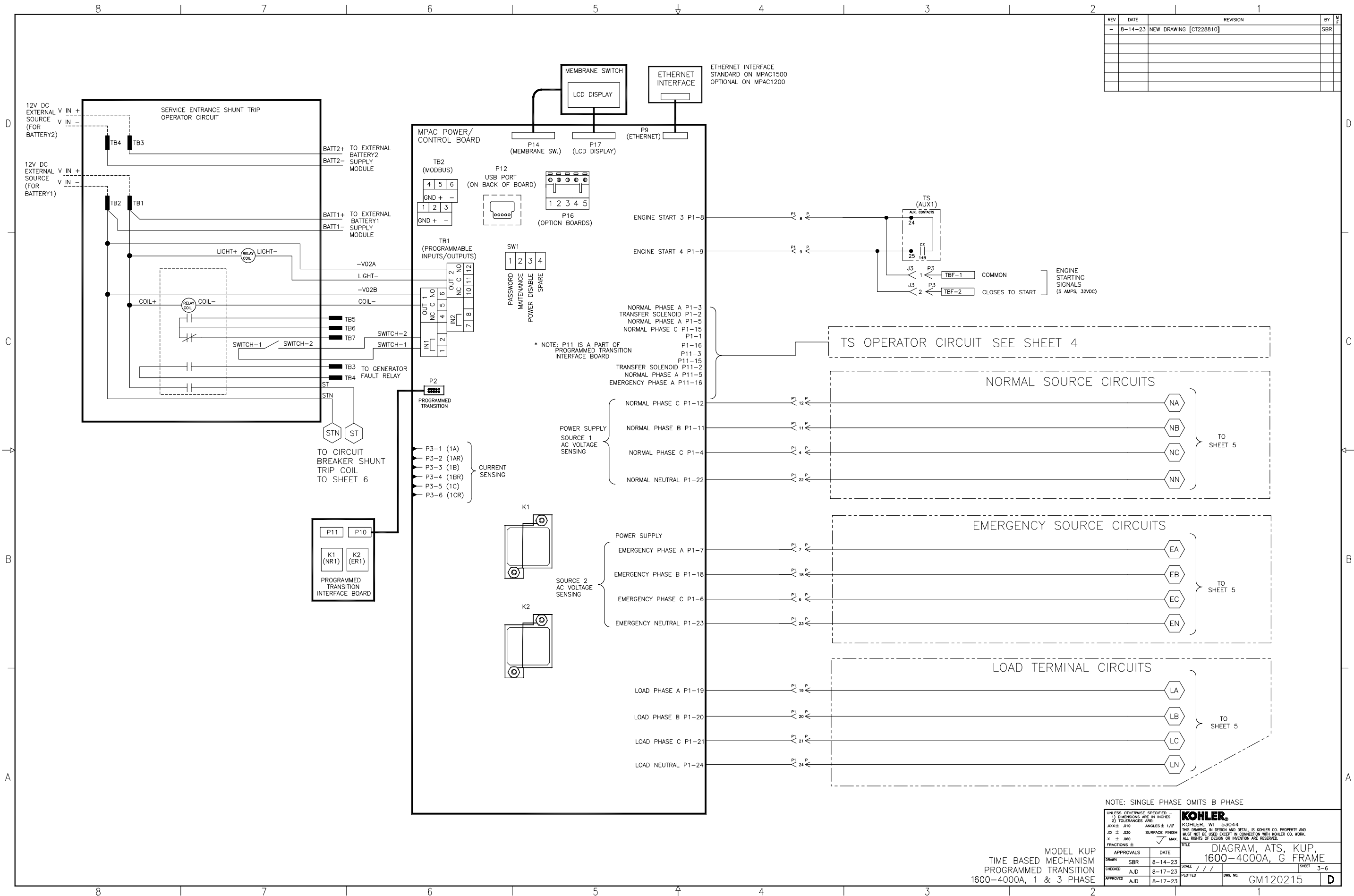
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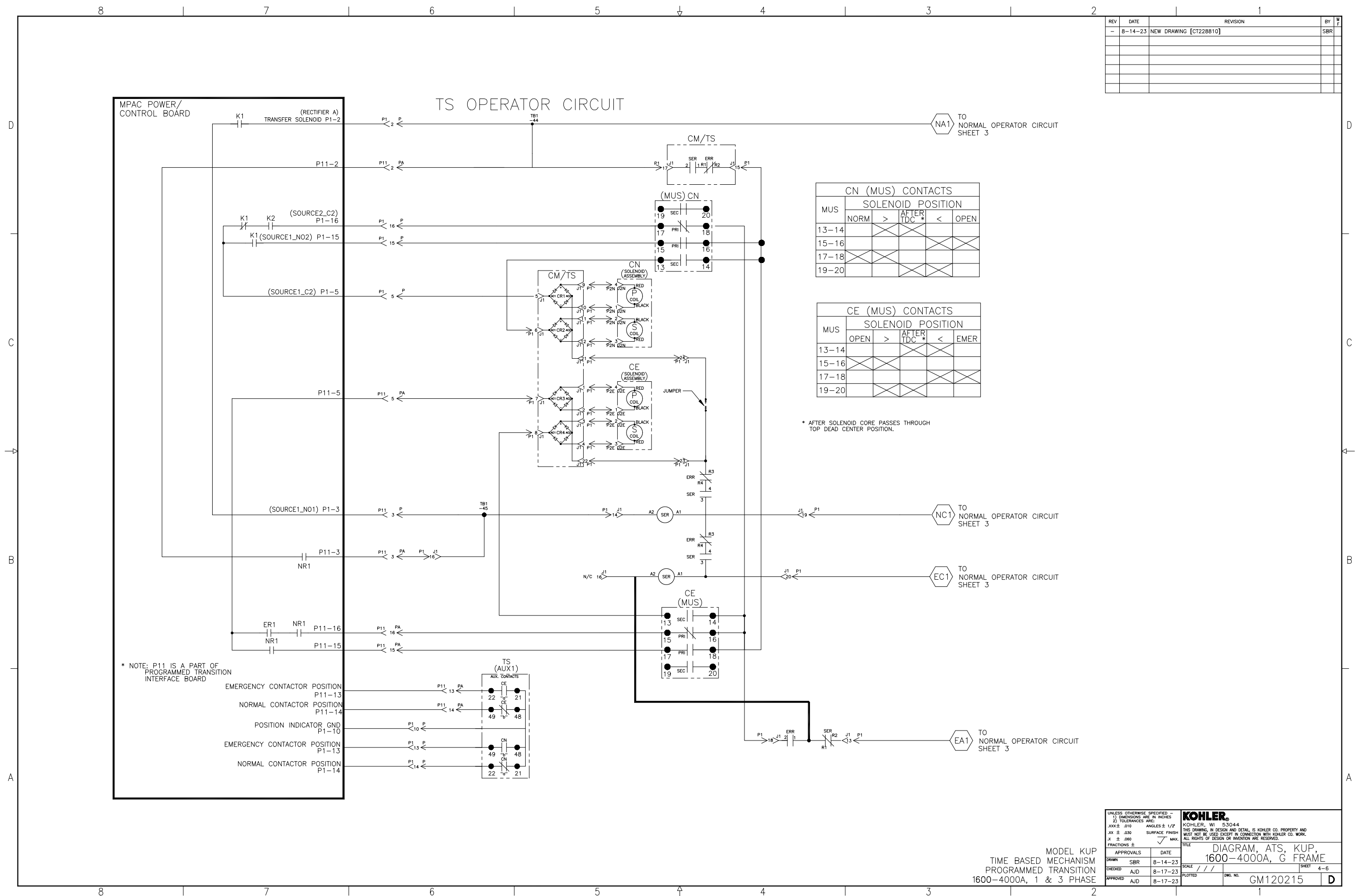
UNLESS OTHERWISE SPECIFIED - 1) DIMENSIONS ARE IN INCHES 2) TOLERANCES ARE: xxx±.010 ANGLES ± 1/2° .xx ± .030 SURFACE FINISH .x ± .060 FRACTIONS ±		KOHLER. KOHLER, WI 53044 THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	
APPROVALS		TITLE	
DRAWN	SBR	DATE	8-14-23
CHECKED	AJD	SCALE	///
APPROVED	AJD	DATE	8-17-23
Dwg. No.		SHEET 5-5	
GM120214		D	

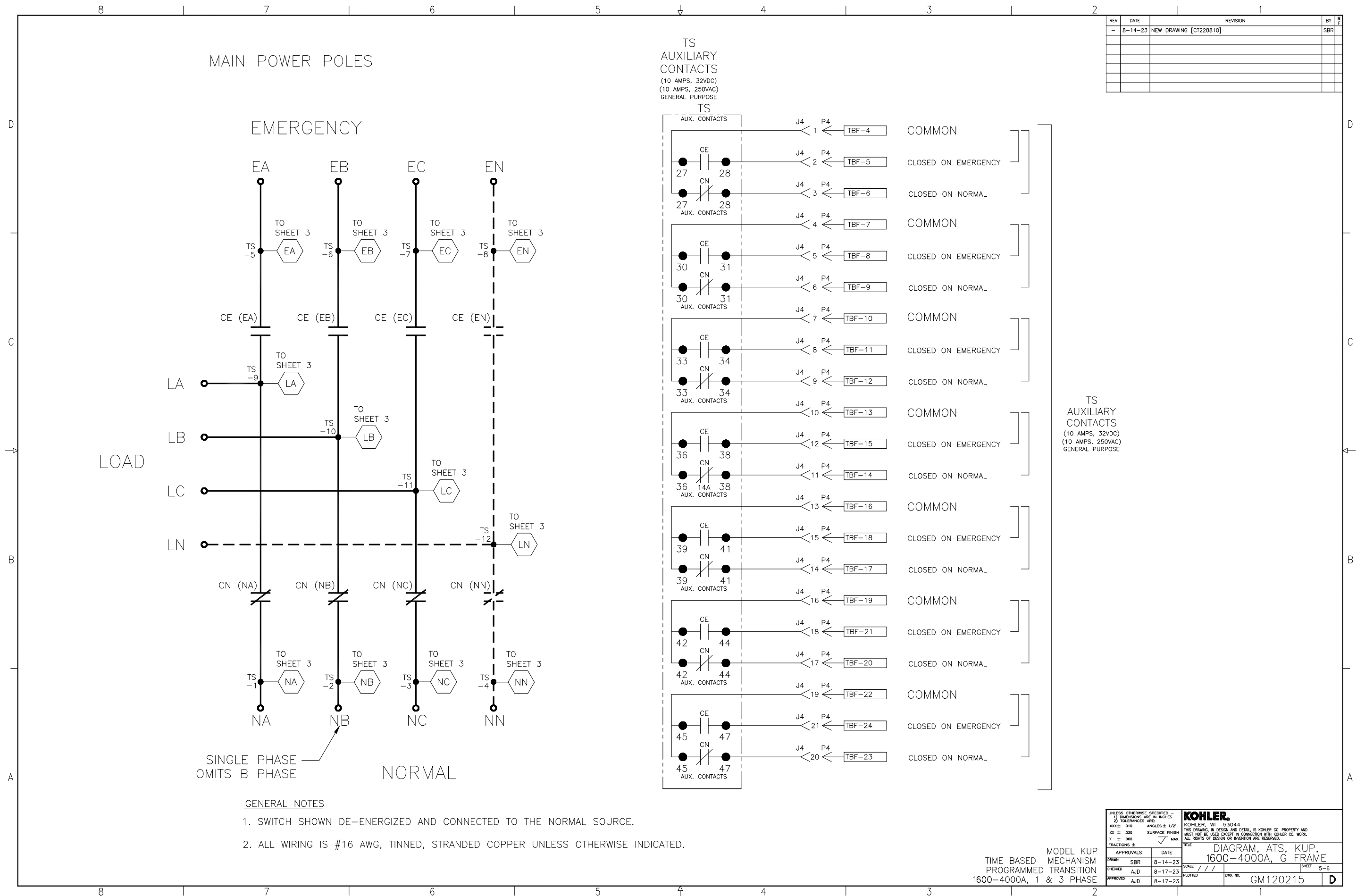
MODEL KUP
TIME BASED MECHANISM
PROGRAMMED TRANSITION
800-1200A , 1 & 3 PHASE

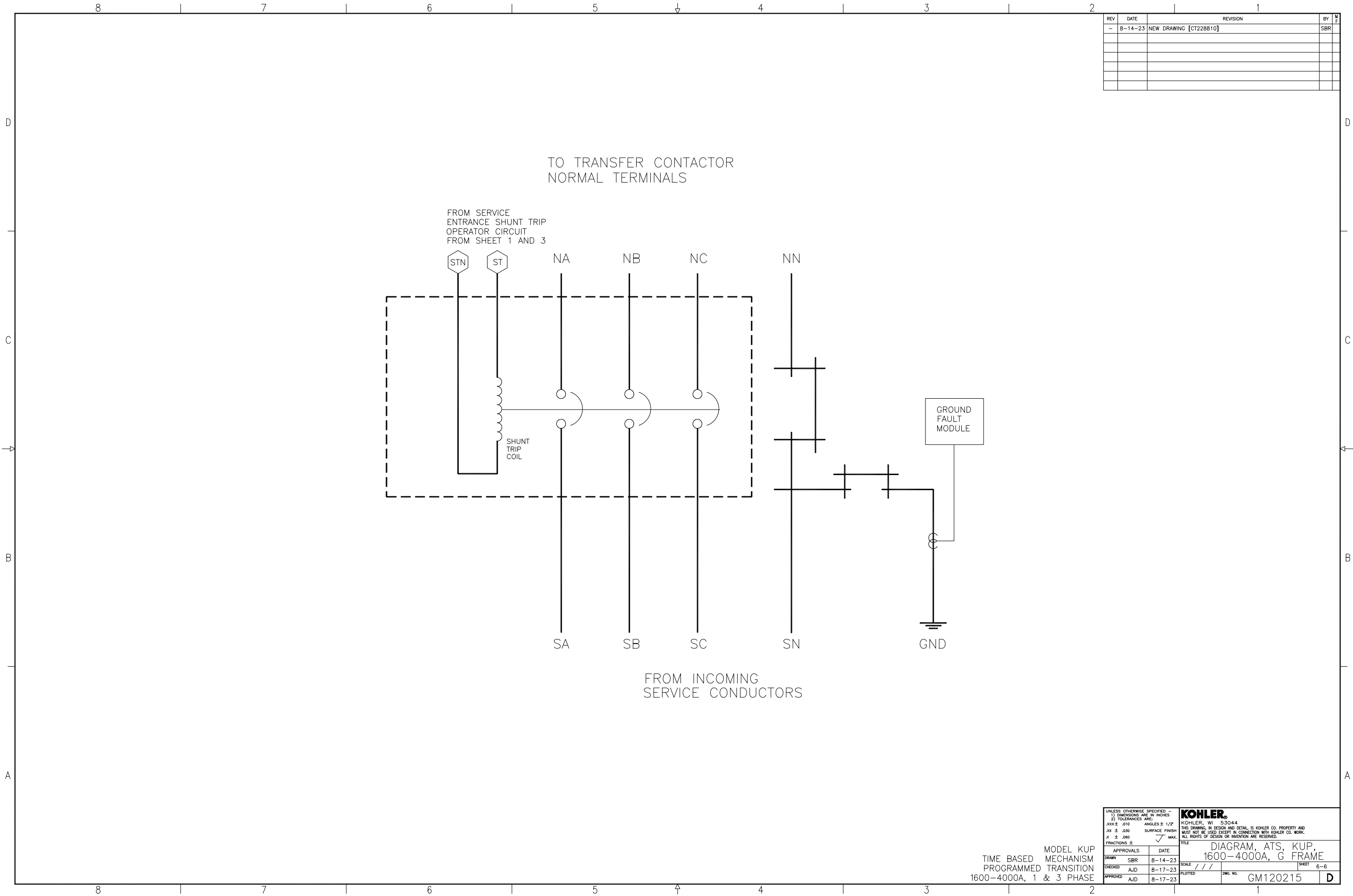












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-	8-14-23	NEW DRAWING [CT228810]	SBR	

UNLESS OTHERWISE SPECIFIED - 1) DIMENSIONS ARE IN INCHES 2) TOLERANCES ARE: .XXX ± .010 ANGLES ± 1/2° .XX ± .030 SURFACE FINISH .X ± .060 FRACTIONS ±		KOHLER. KOHLER, WI 53044 THIS DRAWING, IN DESIGN AND DETAIL, IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	
APPROVALS		TITLE	
DRAWN	SBR	DATE	8-14-23
CHECKED	AJD	SCALE	///
APPROVED	AJD	DATE	8-17-23
DWG. NO.		SHEET	
GM120215		6-6	

MODEL KUP
TIME BASED MECHANISM
PROGRAMMED TRANSITION
1600-4000A, 1 & 3 PHASE

Notes

Notes



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