REV	DATE	REVISION	BY	M F
–	21AUG2025	RELEASE FOR PROTOTYPE	AVS	
A	09FEB2026	UPDATED CONTROLLER & BREAKER CONNECTIONS, ADDED SHEET 3	AVS	

LEGEND
CE – TRANSFER COIL (EMERGENCY)
CN – TRANSFER COIL (NORMAL)
K(#) – RELAY
LSN – POSITION SENSE SWITCH (NORMAL)
LSE – POSITION SENSE SWITCH (EMERGENCY)
P(#) – CONNECTOR
TB(#) – TERMINAL BLOCK

CUSTOMER NORMAL SOURCE CONNECTIONS

NORMAL SERVICE DISCONNECT 100–200A, 80% RATED SQUARE D TYPE QOM

NL1 NL2

AUX CIRCUIT 1 LINE

AUX CIRCUIT 2 LINE (OPTIONAL)

UTILITY GROUND

UTILITY NEUTRAL

GROUND–NEUTRAL BOND LOCATED ON UTILITY SIDE IN cULus UNITS (NEUTRAL BONDING JUMPER)

NEUTRAL

(1) MOV

NL2A (TS–NL2)
LSN (TS–LSN–NO)
LSN (P13–2)
CN (TS–CN–3)
NL1 (P13–5)
NL2 (P13–1)
NL2A (TS–CN–4)

CN LSN LSE CE

NL1 (NA) NL2 (NB) EL1 (EA) EL2 (EB) LL1 (LA) LL2 (LB)

(1) MOV

EL2A (TS–EL2)
LSE (TS–LSE–NO)
CE (TS–CE–7)
LSE (P13–6)
LL1 (P13–4)
EL1 (P13–7)
LL2 (P13–8)
EL2 (P13–3)
EL2A (TS–CE–8)

JUMPER BETWEEN P11–1 & P11–2 WILL DISABLE LOAD CONTROL

FACTORY INSTALLED JUMPER BETWEEN P11–2 & P11–3 WILL ENABLE COMBO BOARD LOAD CONTROL

P11 1 2 3

RXT/LCM COMBO INTERFACE BOARD

K1

TB3 NC C HVAC A NC C HVAC B

HVAC LOAD CONTROL (CUSTOMER WIRED)

P10 (R–BUS)
GRN 1 A–
BLU 2 B+
RED 3 PWR
BLK 4 COM

K2

TB1 I1 I1R

TB1 CONNECTIONS
PIN #1 I1 WHT (DETAIL A)
2 I1R BLK (DETAIL A)

K3 K4 K5 K6 K7 K8

P13

P13 CONNECTIONS
PIN #1 NL2 (TS–NL2)
2 CN (TS–LSN–C)
3 EL2 (TS–EL2)
4 LL1 (TS–LL1)
5 NL1 (TS–NL1)
6 CE (TS–LSE–C)
7 EL1 (TS–EL1)
8 LL2 (TS–LL2)

K1 (LOAD A) RELAY
K2 (LOAD B) RELAY
K3 (LOAD C) RELAY
K4 (LOAD D) RELAY

TB2 A N B N C N D N N AC1

TOTAL COMBINED LOAD RELAY OUTPUTS NO GREATER THAN 10A MAX.

120VAC IN

EXTERNAL LOAD CONTROL (WIRING BY OTHERS)

DETAIL A

CONTACTOR
EL2 EL1
WHT (I1)
BLK (I1R)
GENSET

CT (OPTIONAL)

GROUND

GRN BLU

INTERFACE GENERATOR TO ATS (CUSTOMER WIRED)

SPD FAILURE MONITORING

SURGE PROTECTOR (OPTIONAL)

E–STOP (OPTIONAL)

100/150/200A SERVICE ENTRANCE TRX ATS

UNLESS OTHERWISE SPECIFIED – 1) DIMENSIONS ARE IN INCHES 2) TOLERANCES ARE: .XXX ± .010 ANGLES ± 1/2° .XX ± .030 SURFACE FINISH .X ± .080 √ MAX. FRACTIONS ±

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DRAWN AVS	21AUG2025
CHECKED GW	21AUG2025
APPROVED GW	21AUG2025

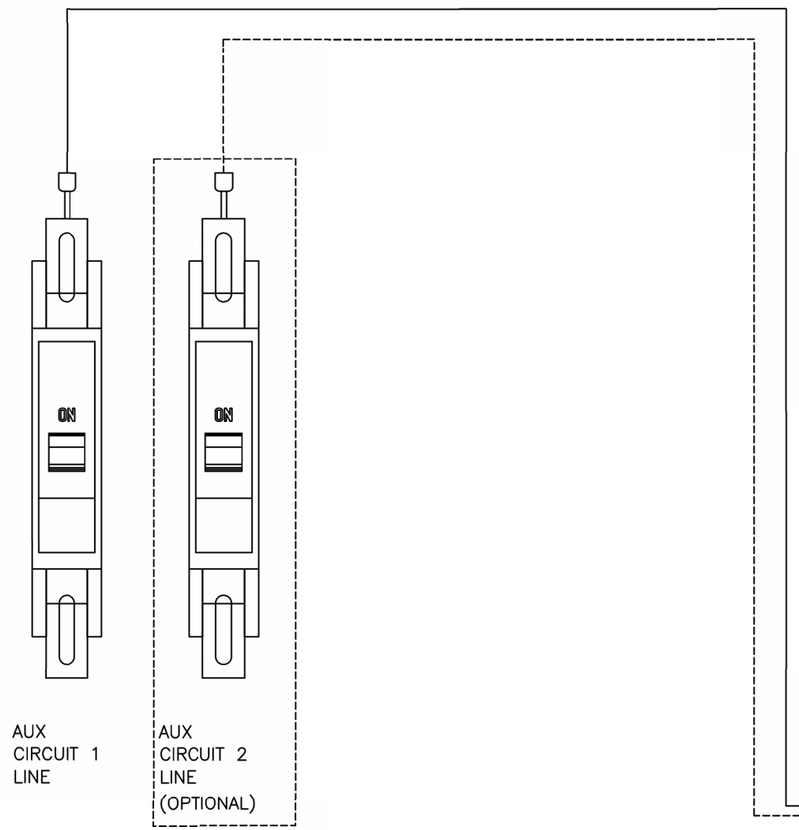
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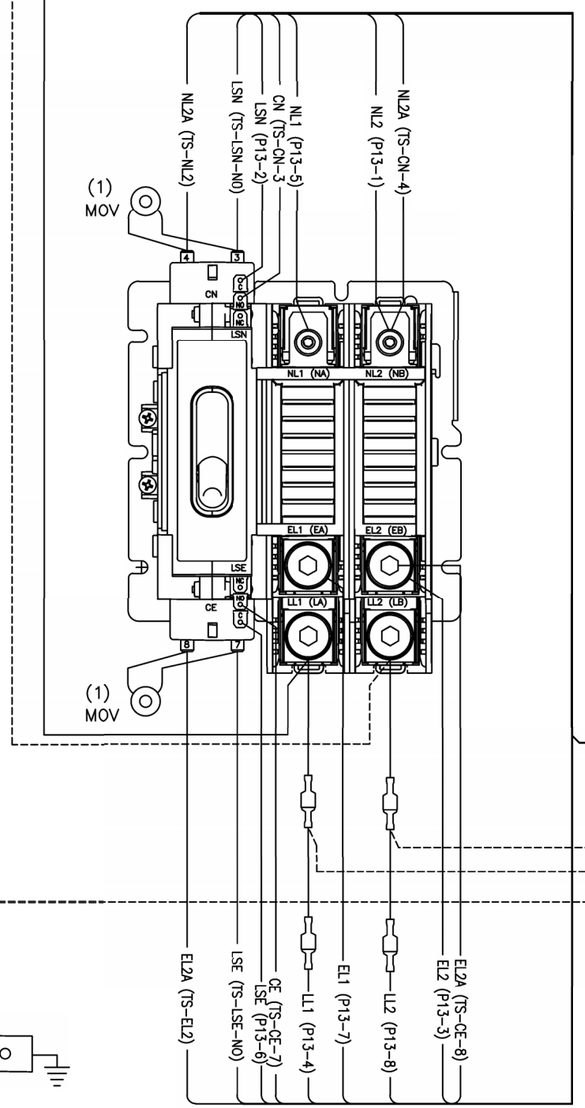
SCALE N/A SHEET 1–2

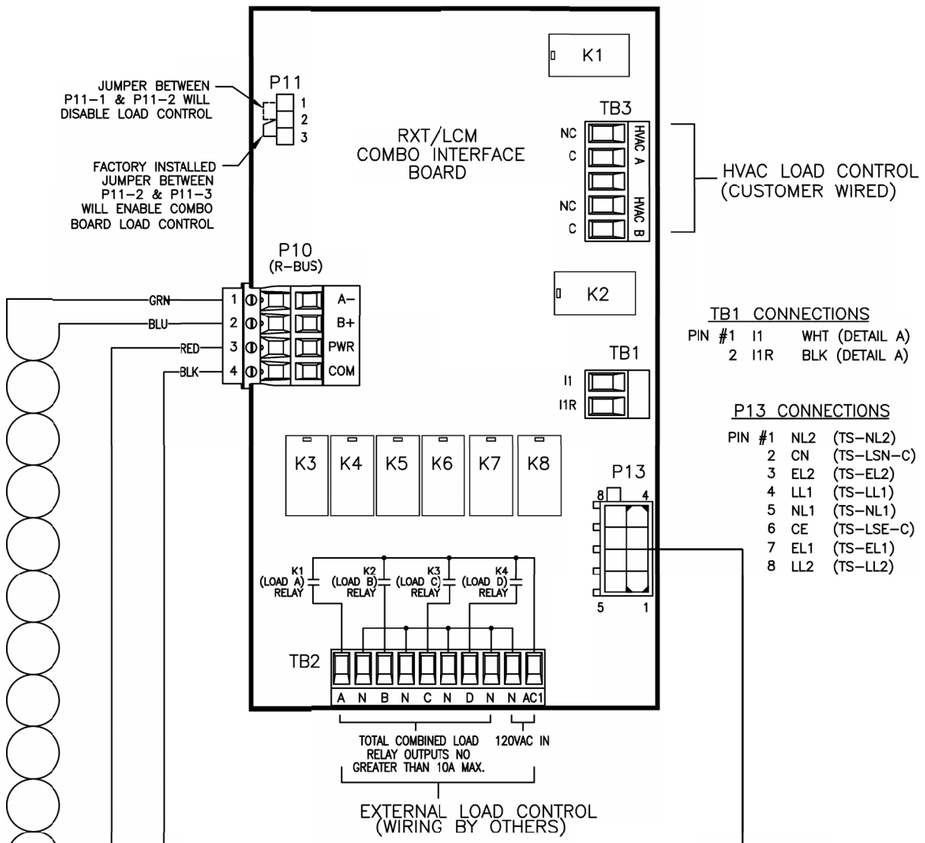
PLOTTED DWG. NO. GM125450 D

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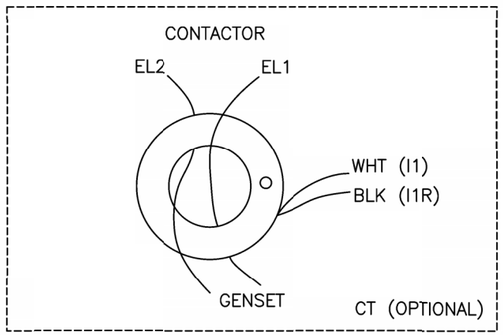


TB1 CONNECTIONS
PIN #1 I1 WHT (DETAIL A)
2 I1R BLK (DETAIL A)

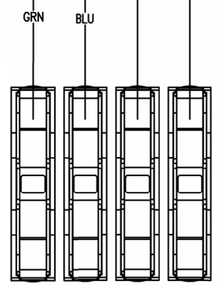
P13 CONNECTIONS
PIN #1 NL2 (TS–NL2)
2 CN (TS–LSN–C)
3 EL2 (TS–EL2)
4 LL1 (TS–LL1)
5 NL1 (TS–NL1)
6 CE (TS–LSE–C)
7 EL1 (TS–EL1)
8 LL2 (TS–LL2)

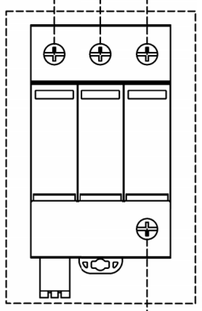
NEUTRAL

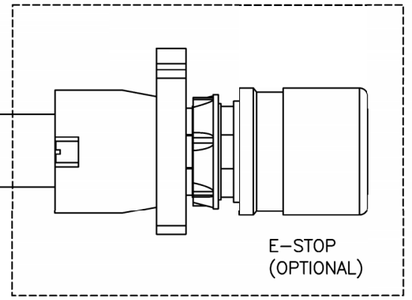
DETAIL A



GROUND







SURGE PROTECTOR (OPTIONAL)

100/150/200A STANDARD TRX ATS

UNLESS OTHERWISE SPECIFIED –
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2) TOLERANCES ARE:
.XXX ± .010 ANGLES ± 1/2°
.XX ± .030 SURFACE FINISH
.X ± .080 √ MAX.
FRACTIONS ±

APPROVALS	DATE
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TITLE: DIAGRAM, WIRING, 100–200A TRX ATS

SCALE N/A | SHEET 2–2

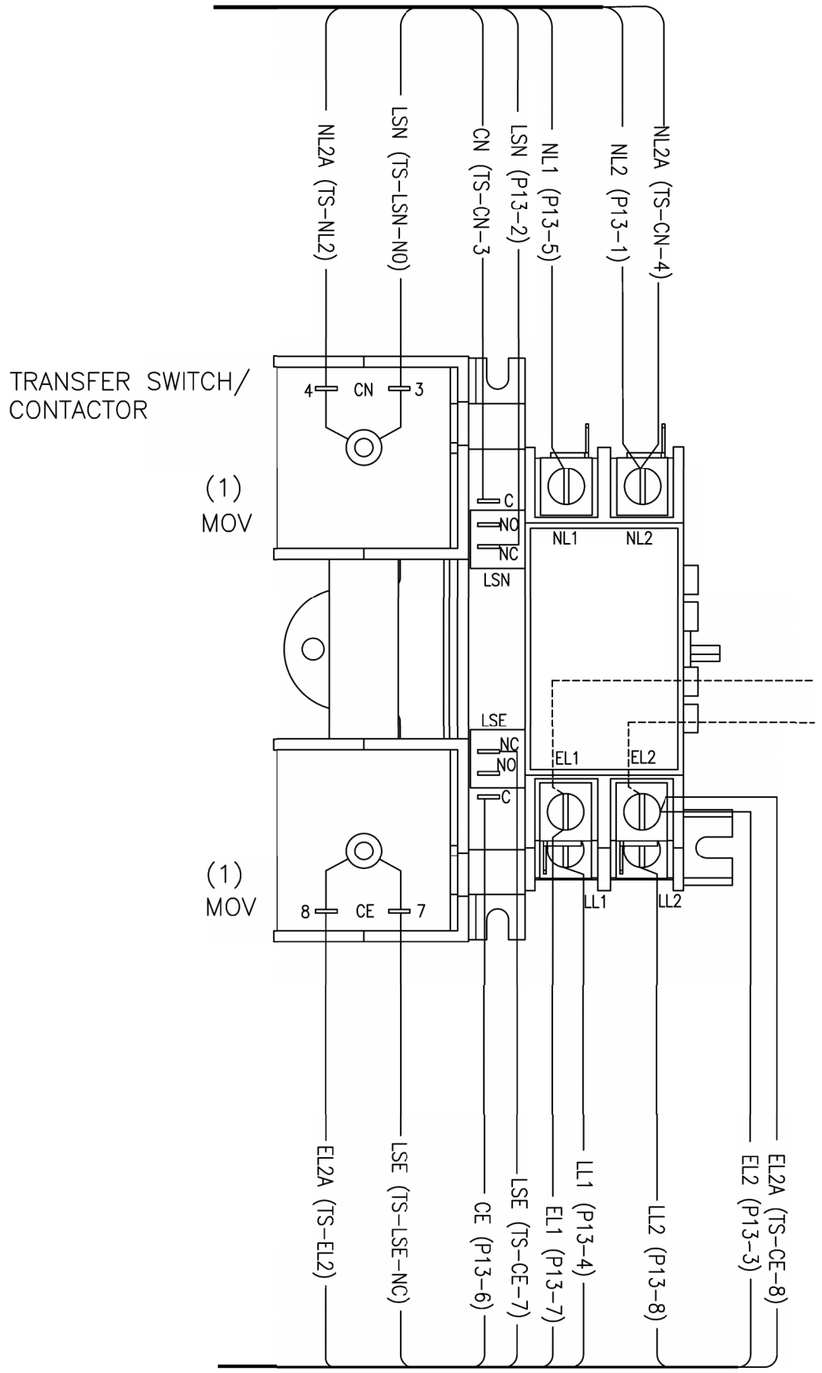
PLOTTED | DWG. NO. GM125450 | D

LEGEND

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ALTERNATE CONTACTOR VIEW



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