

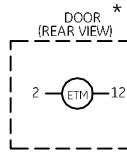
PANEL SIZE	POWER WIRE IDENT. BLACK		
	WIRE "W"	WIRE "X"	WIRE "Y"
331D	N50KC45NA #6	N50KC45NA #6	N50KC45MA #8
331E	N50KC45RA #2	N50KC45RA #2	N50KC45MA #8
331F	N50KC45TA #1/0	N50KC45RA #2	N50KC45NA #6

**POWER WIRING (SEE TABLE)**

- WIRE "W"**  
L1A, L2A, L3A  
2A FROM R TO OL  
2B FROM R TO OL  
2C FROM R TO OL
- WIRE "X"**  
2A FROM R TO AT  
2B FROM R TO AT  
2C FROM R TO AT  
FA, FB, FC
- WIRE "Y"**  
OA, OB, OC

**CONTROL WIRING**

- LINE VOLTAGE CONTROL WIRING  
N50KC41JA #14 BLACK
- CPT VOLTAGE CONTROL WIRING  
N50KC41JC #14 RED
- CPT GROUND WIRING  
N50KC41JD #14 GREEN



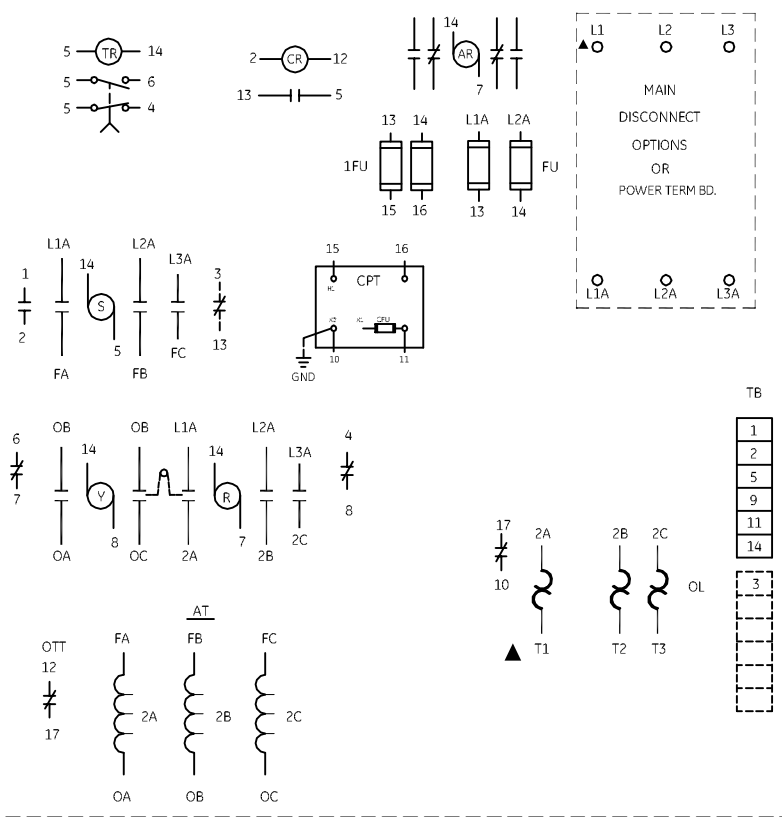
\* ETM MAY BE MOUNTED ON BASEPLATE

**TIME ADJUSTMENT**  
THE ACCELERATING TIMER (TR) IS SET BY THE FACTORY TO OPERATE AT APPROX. 10 SEC. THIS TIME SETTING MAY BE ADJUSTED BY TURNING THE ADJUSTMENT SCREW ON THE TIMER IN THE DESIRED DIRECTION. THIS SETTING SHOULD NEVER EXCEED 20 SEC.

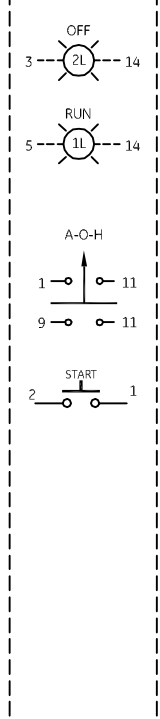
WHEN INSTALLING FIELD WIRING, USE COPPER CONDUCTORS ONLY, EXCEPT AT TERMINALS WHICH ARE LABELED WITH INSTRUCTIONS REGARDING THE PROPER INSTALLATION OF ALUMINUM WIRE.



**PANEL (FRONT VIEW)**



**(IF ORDERED) ENCLOSURE FLANGE REAR VIEW**



**CUSTOMER CONNECTIONS**

NEHA SIZE	STARTER LINE & LOAD
2	50 LB IN
3	150 LB IN
4	200 LB IN

**NOMENCLATURE (IF ORDERED)**

- AM AHMETER
- AMS AHMETER SWITCH
- AR AUXILIARY RELAY
- AT AUTO-TRANSFORMER
- CPT CONTROL POWER TRANSFORMER
- ETM ELAPSED TIME METER
- FU FUSE
- IL INDICATING LIGHT
- LS LINE SWITCH
- OL OVERLOAD RELAY
- OTT OVER-TEMPERATURE THERMOSTAT
- PB PUSHBUTTON
- R RUN CONTACTOR
- S START CONTACTOR
- SS SELECTOR SWITCH
- TB TERMINAL BOARD
- TC TIME CLOSING CONTACTS (TR)
- TR TIME DELAY RELAY
- Y WYE CONTACTOR
- PD CUSTOMER PILOT DEVICE

**AT CONNECTIONS**

- FA-FB-FC = 100% TAP
- 2A-2B-2C = 66% TAP
- OA-OB-OC = 0% TAP

FOR CSA GROUNDING

CONDUCTOR SIZE	MT NUMBER
1/2-IN. CONDUIT	55-2134-03E-021
3/4-IN. CONDUIT	55-2134-03E-022
1-IN. CONDUIT	55-2134-03E-023
1 1/4-IN. CONDUIT	55-2134-03E-024
1 1/2-IN. CONDUIT	55-2134-03E-025
2-IN. CONDUIT	55-2134-03E-026
2 1/2-IN. CONDUIT	55-2134-03E-027



**WIRING DIAGRAM  
RVAT (CR331 D, E & F)**

AN #	THIRD ANGLE PROJECTION	SHEET #
09-9120		1 OF 1

DWG NO.	DATE	REV
55-682982	10/09/2009	1