

POWER WIRING (SEE TABLE)

WIRE "W"
 L1A, L2A, L3A
 2A FROM R TO OL
 2B FROM R TO AT
 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

CT GROUND WIRING
 CPT GROUND WIRING
 N50KC41JD #14 GREEN

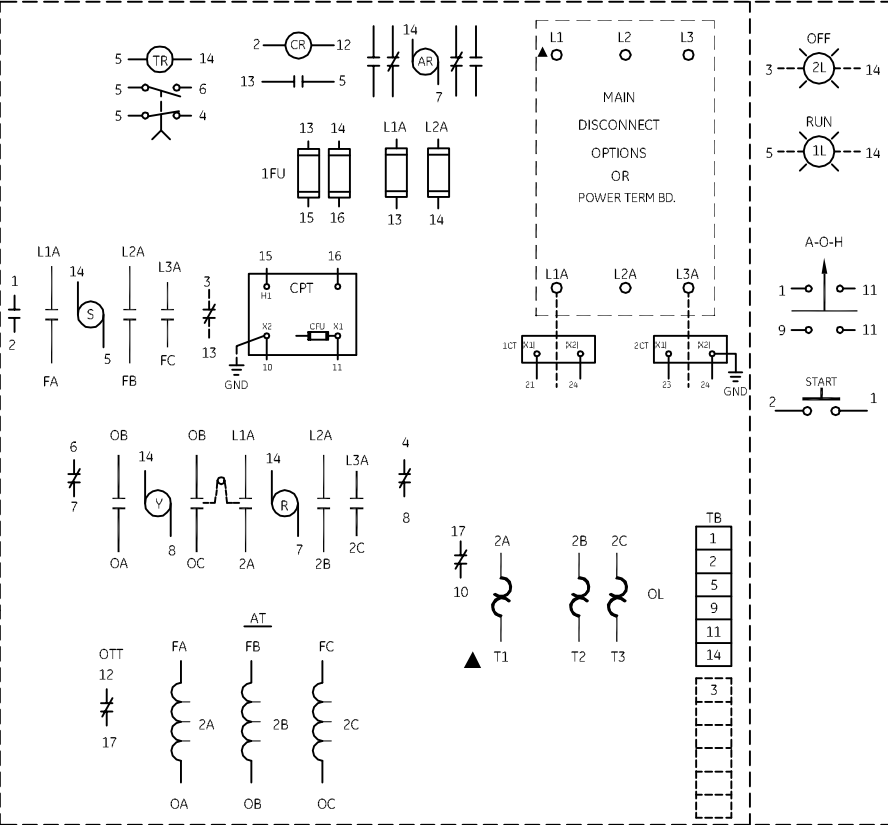
TIME ADJUSTMENT
 THE ACCELERATING TIMER (TRI) IS SET BY THE FACTORY TO OPERATE AT APPROX. 10 SEC. THIS TIME SETTING MAY BE ADJUSTED BY TURNING THE ADJUSTMENT SCREW ON THE TIMER IN THE DESIRED DIRECTION. THIS SETTING SHOULD NEVER EXCEED 20 SEC.

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

AR (IF USED)

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

PANEL (FRONT VIEW)



CUSTOMER CONNECTIONS

USE 70°C COPPER CONDUCTORS ONLY FOR FIELD WIRING. TORQUE LINE AND LOAD TERMINALS AS MARKED OR AS SHOWN AT RIGHT.

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

NOMENCLATURE (IF ORDERED)
 AM AMMETER
 ARS AMMETER 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 PUSH-BUTTON
 PD* CUSTOMER PILOT DEVICE
 PFRF PHASE FAILURE PHASE REVERSAL RELAY
 R RUN CONTACTOR
 S START CONTACTOR
 SS SELECTOR SWITCH
 TB TERMINAL BOARD
 TC TIME CLOSING CONTACTS (TR)
 TR TIME DELAY RELAY
 Y WYE CONTACTOR

V/M VOLTMETER
 VMS VOLTMETER SWITCH
AT CONNECTIONS
 FA-FB-FC = 100% TAP
 2A-2B-2C = 65% TAP
 OA-OB-OC = 0% TAP

FOR CSA GROUND KIT:
 ORDER KIT NUMBER FROM THE FOLLOWING TABLE

CONDUIT SIZE	KIT NUMBER
1/2" CONDUIT	55-213433C011
3/4" CONDUIT	55-213433C012
1" CONDUIT	55-213433C013
1 1/4" CONDUIT	55-213433C014
1 1/2" CONDUIT	55-213433C015
2" CONDUIT	55-213433C016
2 1/2" CONDUIT	55-213433C017



imagination at work

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

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

DWG NO.	DATE	REV
55-685090	10/12/2009	2