

Revision 1.1



ALPHA ELEVATOR CONTROLLER, INC

6711 POWER INN RD, SUITE B

SACRAMENTO, CA 95828

TEL: (916) 957-5900

CONSTRUCTION MODE



Verify the main line disconnect is off prior to wiring the main line into the controller.



Construction mode wiring can be found on the job schematic. There is a factory jumper (orange or yellow wire) from the SSH-O terminal to the SSC-R terminal on the safety board. Remove the jumper when off construction mode.

Main Line and Motor Wiring:

- Connect fan and light disconnect building power wires black and white to the terminals BLK and WHT on the DIN rail.
- Connect the 3-phase mainline power to the soft-starter terminals L1, L2 and L3.
- Connect the motor leads to the side of the soft-starter and fault contactor with no wires on them depending on the motor wiring configuration. Refer to the job schematic or the tables below for motor wiring configurations.

3 & 9 LEAD MOTOR WIRING				
MOTOR CONFIGURATION	SOFT STARTER TERMINALS			JUMPER
	T6	T4	T5	
3 LEAD MOTOR (208VAC-575VAC)	1	2	3	No Jumper
9 LEAD MOTOR LOW VOLTAGE (208VAC-240VAC)	1,6,7	2,4,8	3,5,9	No Jumper
9 LEAD MOTOR HIGH VOLTAGE (460VAC-480VAC)	1	2	3	4&7, 5&8, 6&9

6 & 12 LEAD MOTOR WIRING							
MOTOR CONFIGURATION	SOFT STARTER TERMINALS						JUMPER
	T1	T2	T3	T4	T5	T6	
6 LEAD MOTOR (208VAC-575VAC)	1	2	3	4	5	6	No Jumper
12 LEAD MOTOR LOW VOLTAGE (208VAC-240VAC)	1&7	2&8	3&9	4&10	5&11	6&12	No Jumper
12 LEAD MOTOR HIGH VOLTAGE (460VAC-480VAC)	1	2	3	10	11	12	4&7, 5&8, 6&9

Valve Wiring:

- Connect the valve coils to the following terminals:
 - One side of the up high valve coil to N on the DIN rail and the other side of the coil to UVH of the safety board.
 - One side of the up leveling valve coil to N on the DIN rail and the other side of the coil to UVL of the safety board.
 - One side of the down high valve coil to N on the DIN rail and the other side of the coil to DVH of the safety board.
 - One side of the down leveling valve coil to N on the DIN rail and the other side of the coil to DVL of the safety board.

General Field Jumpers:

- Make the following connections on the MR UI board, if the inputs below are not available:
 - Low Oil Input to M24
 - Oil Overheat Input M24
 - Oil Viscosity (Temperature) Input to M24 [IF APPLICABLE]
 - Low Pressure Input to M24 [IF APPLICABLE]
 - Motor Overheat Input to M24 [IF APPLICABLE]



Controller will run on low speed on construction mode by default. To run on high speed on construction mode:

- Connect the following to the safety board:
 - UNL-R to UNTS-R
 - DNL-R to DNTS-R
- Go to **MAIN MENU** → **SETUP** → **INSPECTION/ACCESS** → **ALLOW HIGH SPEED**, set it to **TRUE** and save the parameter. This will allow high speed on any inspection mode.

Construction Mode Methods:

Option #1: If using a temporary run box (CT Inspection Mode):

- Connect the following to the safety board:
 - Stop switch to M24 and STOP-IC
 - Up button to CTUP
 - Down button to CTDN
- Turn both the car door and hall door bypass switches from OFF to the BYPASS position.

Elevator is now ready to run on construction mode with the temporary run box.

Option #2: If not using a temporary run box (MR Inspection Mode):

- Make the following connections on the safety board:
 - IECT to M24
 - IEIC to M24 [**IF APPLICABLE**]
 - IEHA to M24
 - STOPIC to M24
 - GSWF to 120P
 - LOCKT to 120P
 - LOCKF to 120P
 - LOCKB to 120P
 - GSWR to 120P [**IF APPLICABLE**]
 - LOCKR to 120P [**IF APPLICABLE**]
- Turn inspection switch on the safety board from NORMAL to the INSPECT position.

Elevator is now ready to run on construction mode with the MR inspection board.