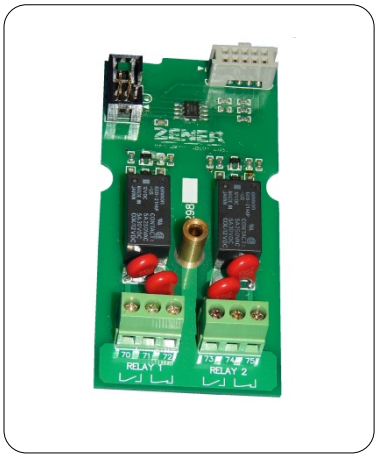
ZENER 8000

Instruction Sheet



Part Number: AQ08202
AF08202 (fitted to Drive)
Description: Option Board – Relay Expansion
Compatibility: ZENER 8000
ECODRIVE 8000
Kit Includes: 1x Option Board
1x Insulation Sheet – Mylar
1x Screw (Nylon/Plastic)
1x Terminal Label

Summary:
This option board provides an Additional 2x Relay Outputs.

Each relay provides changeover contacts to provide a normally open and normally closed contact. Each relay is fully programmable with a wide range of functions (signal), direct or invert operation and a time delay (delay OFF & delay ON).

A maximum of any two (2) option boards can be fitted per drive, either Left or Right position. Any combination of option boards is possible. The preferred location is the right slot to allow an Extended Features option board to be fitted in the left slot.

Terminals & Terminal Numbers:
The terminal numbers are referenced in the menu to identify the inputs and outputs.
RLY (70,71,72)
RLY (73,74,75)

When the Option board is in the right slot, a sticker (provided) must be attached with the correct terminal numbers.
RLY (80,81,82)
RLY (83,84,85)

Further Information:
For detailed information on functionality and programming refer to the instruction manual for the ZENER 8000.

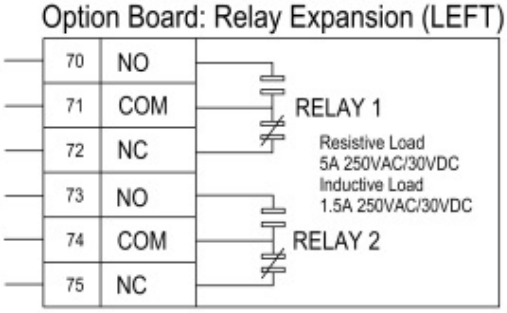
Specification:

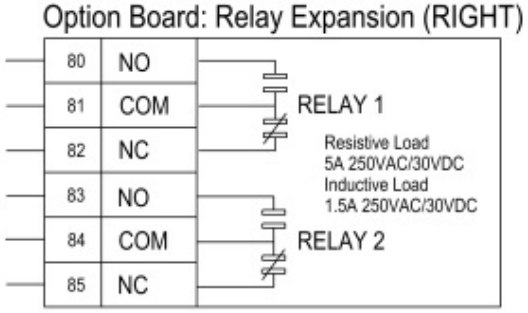
Digital Output: 2x; Change-Over Relay,
Max. 5A @ 250VAC, 5A @ 30VDC Resistive
Max 1.5A @ 250VAC, 1.5A @30VDC Inductive

Parameters:
Signal: Refer to the ZENER 8000 Reference Manual for the full list of current signal sources available.
Sense: Direct or Invert
TON: Relay Activate Delay 0 to 600seconds
TOFF: Relay De-activate Delay 0 to 600seconds

Programming:
ESC, ↓G 00 INPUTS/OUTPUTS <ENTER>
RELAY Configurations <ENTER>
↓G0 RLY (70,71,72) <ENTER>
↓G0 RLY (73,74,75) <ENTER> ….
↓G0 RLY (80,81,82) <ENTER> ….
↓G0 RLY (83,84,85) <ENTER> …
G0.. RLY Signal
G0.. RLY Sense
G0.. RLY TON
G0.. RLY TOFF

Terminal Layout / Wiring:





Installation

There are hazardous voltages inside the ZENER 8000 whenever it is connected to an electrical supply and for some time afterwards.

Before touching anything inside the ZENER 8000 enclosure or other equipment connected to the terminals, disconnect all sources of electrical power, wait at least 11 minutes for capacitors within the ZENER 8000 to discharge to less than 50VDC and then ensure by measurement, that there are no hazardous voltages (AC or DC) present.

All chassis (except CHA IP30)

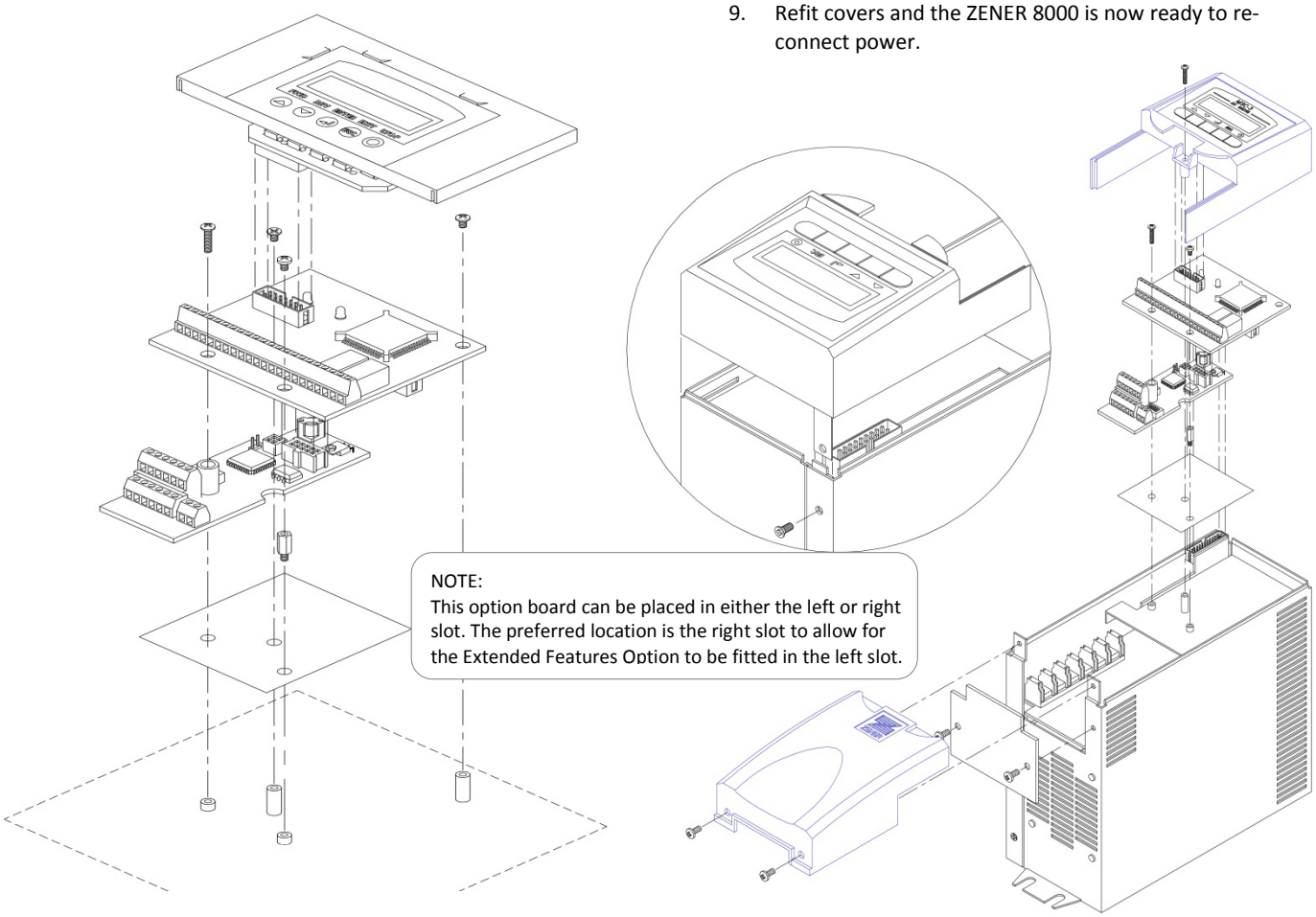
Steps:

1. Safely Isolate. Ensure all power sources have been removed for at least 11 minutes and remain that way for the rest of the installation.
2. Remove the front door, and remove screws/nuts securing the display assembly and remove.
3. Remove the screws securing the control board and remove.
4. Turn the control board over and plug the option board into the one of the available slots. The right slot if available is recommended (looking from top side) for this option.
5. Lay the insulation sheet on top of the exposed metalwork where the control board sits.
6. Remove the spacer where the option board now sits.
7. Reposition the control board assembly and fix into place. A plastic screw is provided where the option is fitted on the right side.
8. Refit covers and the ZENER 8000 is now ready to re-connect power.

IP30 CHA Installation

Steps:

1. Safely Isolate. Ensure all power sources have been removed for at least 11 minutes and remain that way for the rest of the installation.
2. Remove the plastic terminal cover and the screw (2) on the top side of the chassis must also be removed.
3. Remove the screws securing the control board and remove.
4. Remove the front screw securing the control board assembly in place and remove the control board assembly.
5. Turn the control board over and plug the option board into the one of the available slots. The right slot if available is recommended (looking from top side) for this option.
6. Lay the insulation sheet on top of the exposed metalwork where the control board sits.
7. Remove the spacer that where the option board now sits.
8. Reposition the control board assembly and fix into place. A plastic screw is provided where the option is fitted on the right side.
9. Refit covers and the ZENER 8000 is now ready to re-connect power.



NOTE:
This option board can be placed in either the left or right slot. The preferred location is the right slot to allow for the Extended Features Option to be fitted in the left slot.