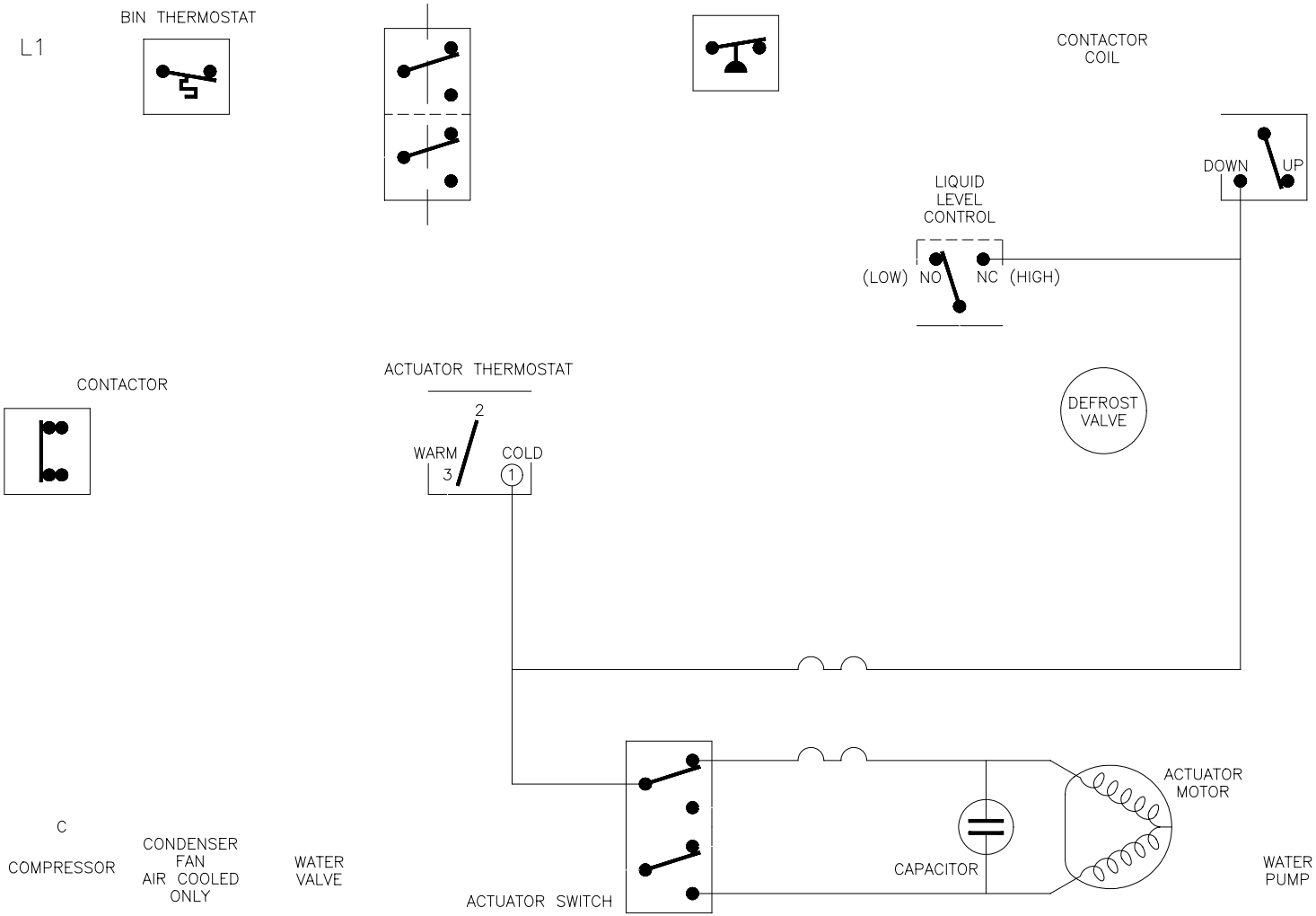
SEQUENTIAL CIRCUIT DIAGRAM ÐGT350 MODELS



SEQUENTIAL CIRCUIT DIAGRAM – GT350 MODELS

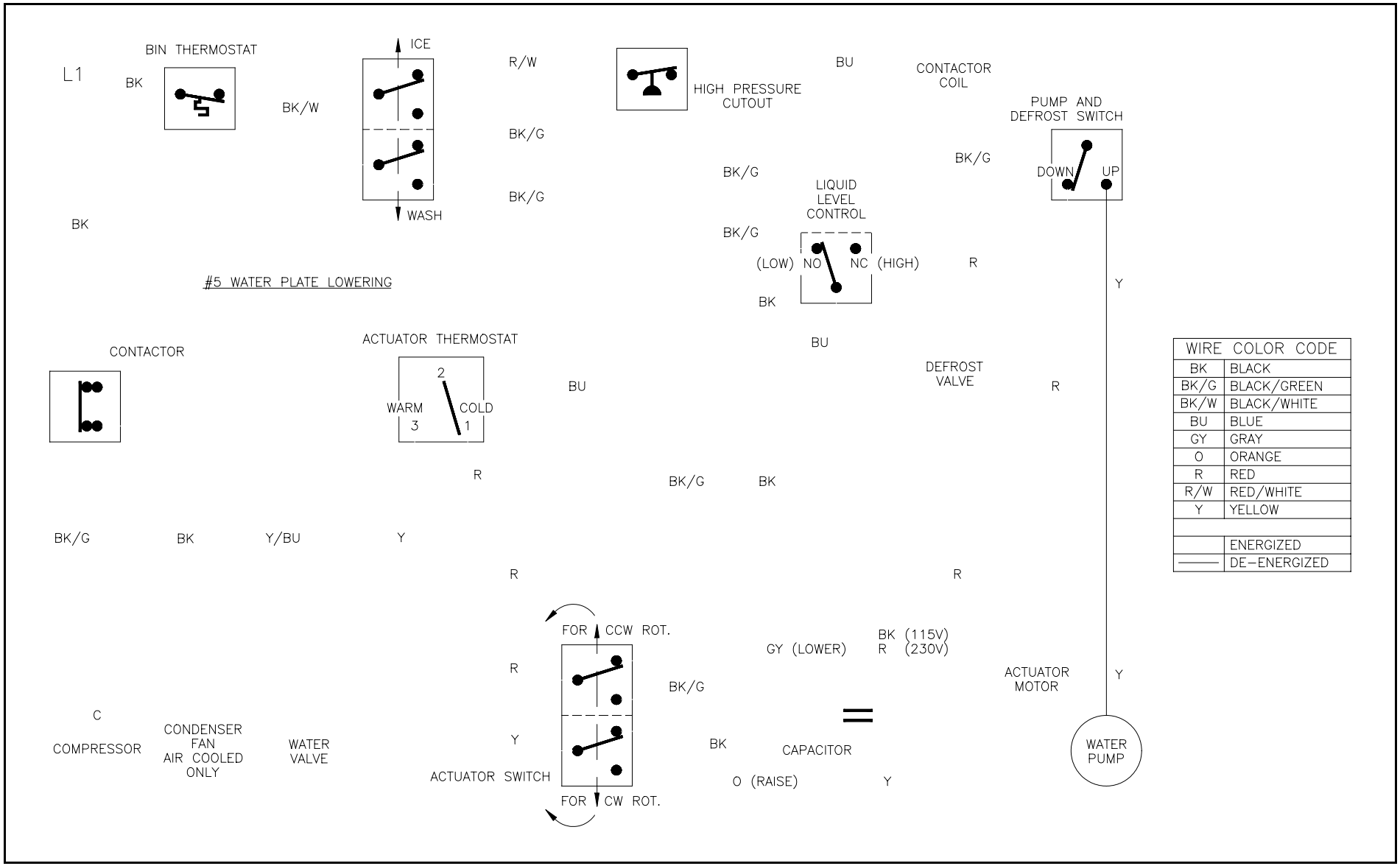
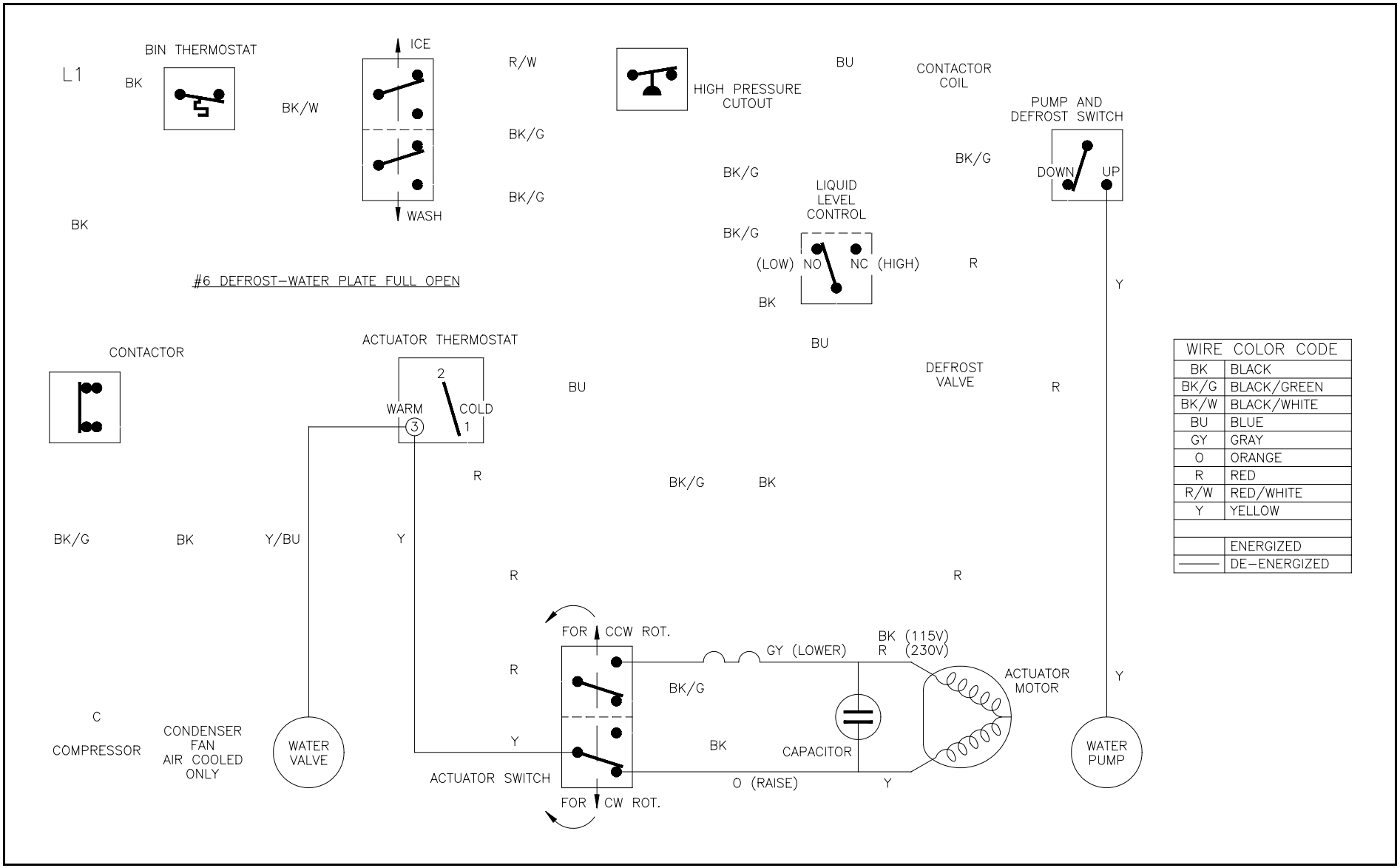


Diagram #5 Defrost- Water Plate Lowering

Bin thermostat closed; Switch in “ice” position; Contactor closed; Water plate open (pump & defrost switch down)

Liquid level control switch low. Actuator switch up—power to water valve. Actuator thermostat cold—power to defrost valve, power to actuator motor (actuator switch up, motor rotation CCW). Pump and defrost switch down (water plate open)—no power to water pump.

SEQUENTIAL CIRCUIT DIAGRAM – GT350 MODELS

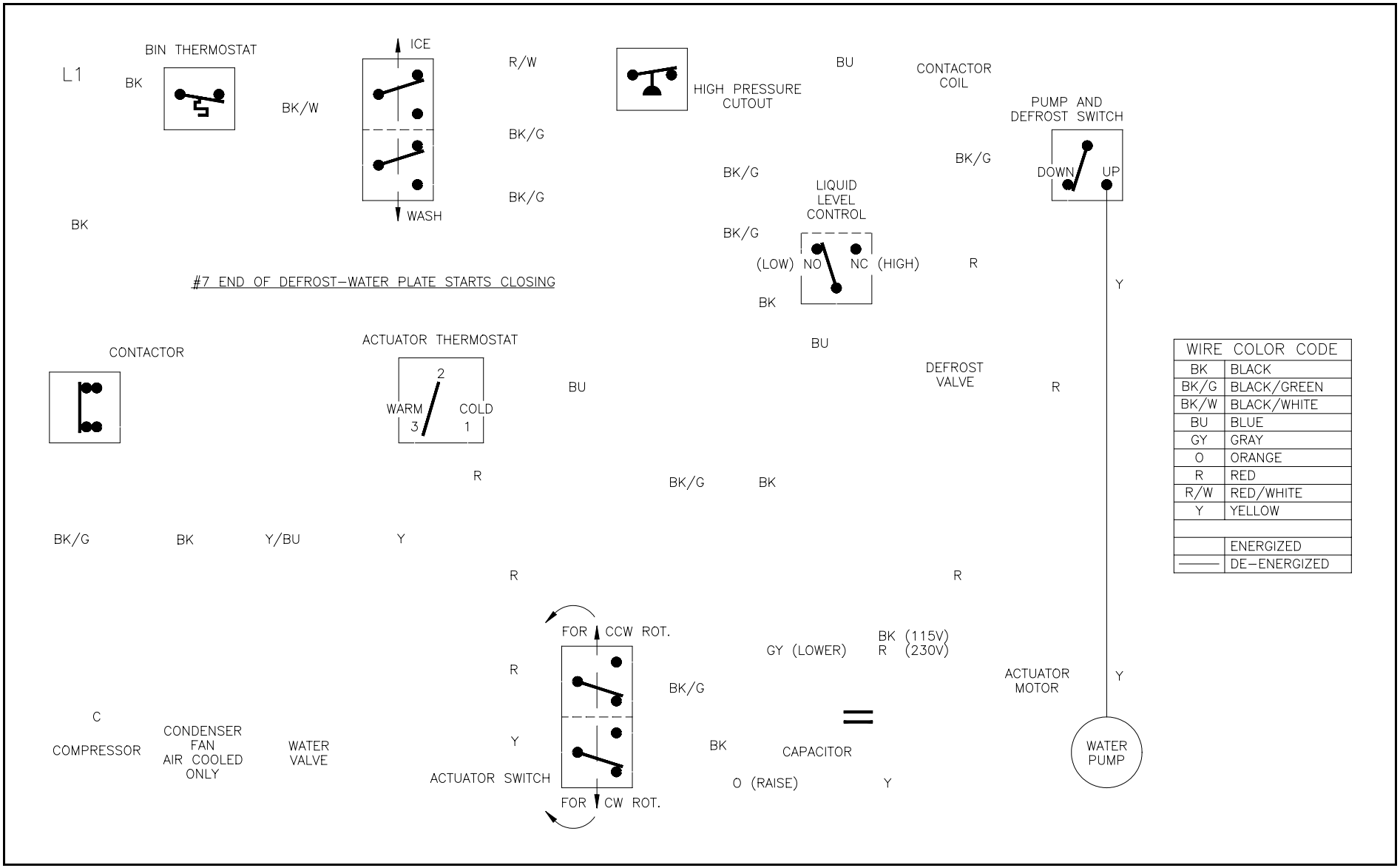


WIRE	COLOR CODE
BK	BLACK
BK/G	BLACK/GREEN
BK/W	BLACK/WHITE
BU	BLUE
GY	GRAY
O	ORANGE
R	RED
R/W	RED/WHITE
Y	YELLOW
	ENERGIZED
———	DE–ENERGIZED

Diagram #6 Defrost- Water Plate Full Open

Bin thermostat closed; Switch in “ice” position; Contactor closed; Water plate open (pump & defrost switch down) Liquid level control switch low. Actuator switch down—power off to actuator motor and water valve. Actuator thermostat cold—power to defrost valve. Pump and defrost switch down (water plate open)—no power to water pump.

SEQUENTIAL CIRCUIT DIAGRAM – GT350 MODELS

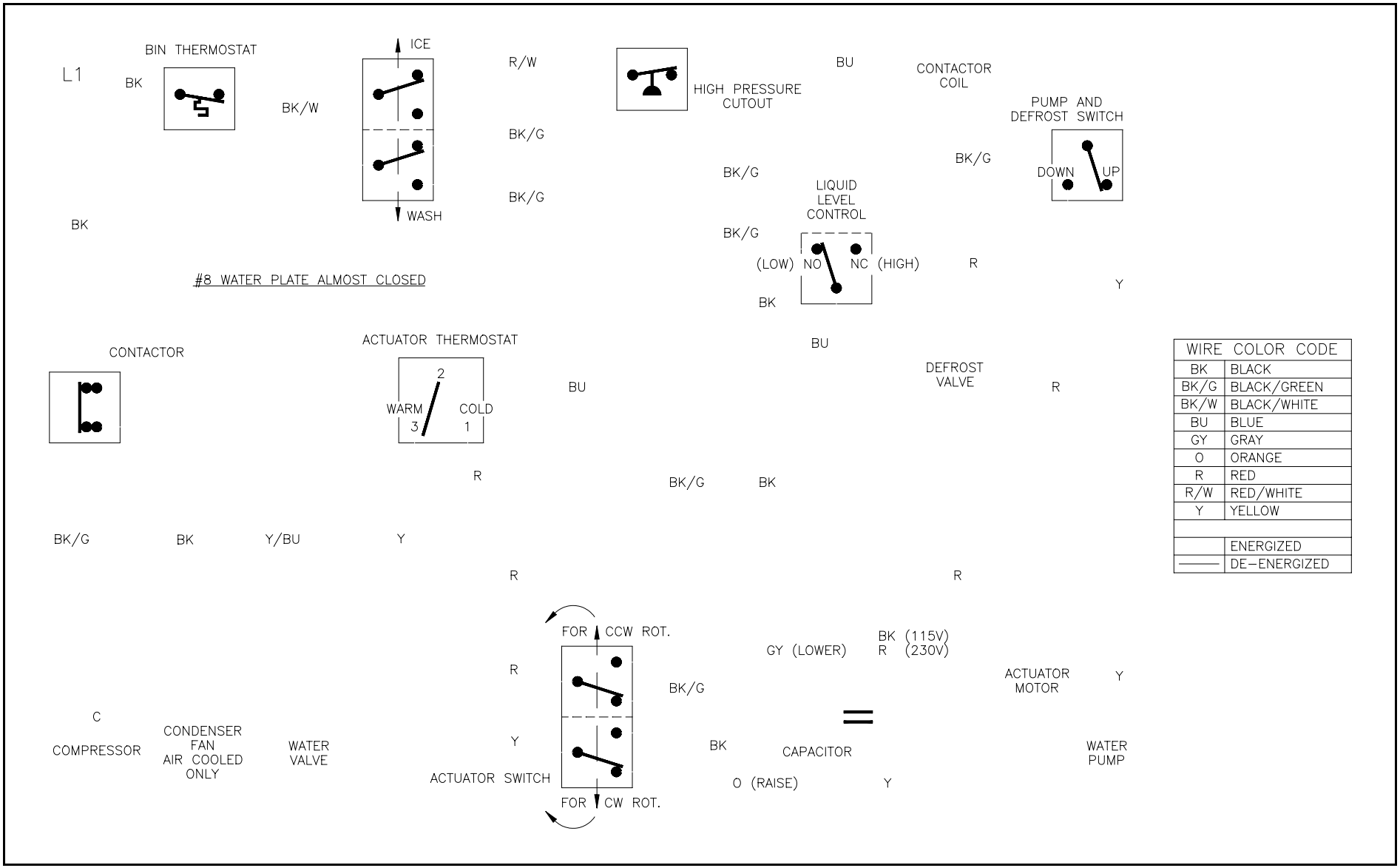


WIRE COLOR CODE	
BK	BLACK
BK/G	BLACK/GREEN
BK/W	BLACK/WHITE
BU	BLUE
GY	GRAY
O	ORANGE
R	RED
R/W	RED/WHITE
Y	YELLOW
	ENERGIZED
———	DE–ENERGIZED

Diagram #7 End of Defrost- Water Plate Closing

Bin thermostat closed; Switch in “ice” position; Contactor closed; Water plate open (pump & defrost switch down) Liquid level control switch low. Actuator thermostat switch warm—power to water valve and actuator motor (actuator switch down, motor rotation CW). Pump and defrost switch down (water plate open)—power to defrost valve, no power to water pump.

SEQUENTIAL CIRCUIT DIAGRAM – GT350 MODELS



WIRE COLOR CODE	
BK	BLACK
BK/G	BLACK/GREEN
BK/W	BLACK/WHITE
BU	BLUE
GY	GRAY
O	ORANGE
R	RED
R/W	RED/WHITE
Y	YELLOW
	ENERGIZED
———	DE–ENERGIZED

Diagram #8 Defrost Ending- Water Plate Almost Closed

Bin thermostat closed; Switch in “ice” position; Contactor closed; Water plate almost closed (pump & defrost switch up) Liquid level control switch low. Actuator thermostat switch warm—power to water valve and actuator motor (actuator switch down, motor rotation CW). Actuator switch down—power to defrost valve. Pump and defrost switch up (water plate almost closed)—power to water pump.

SEQUENTIAL CIRCUIT DIAGRAM – GT350 MODELS

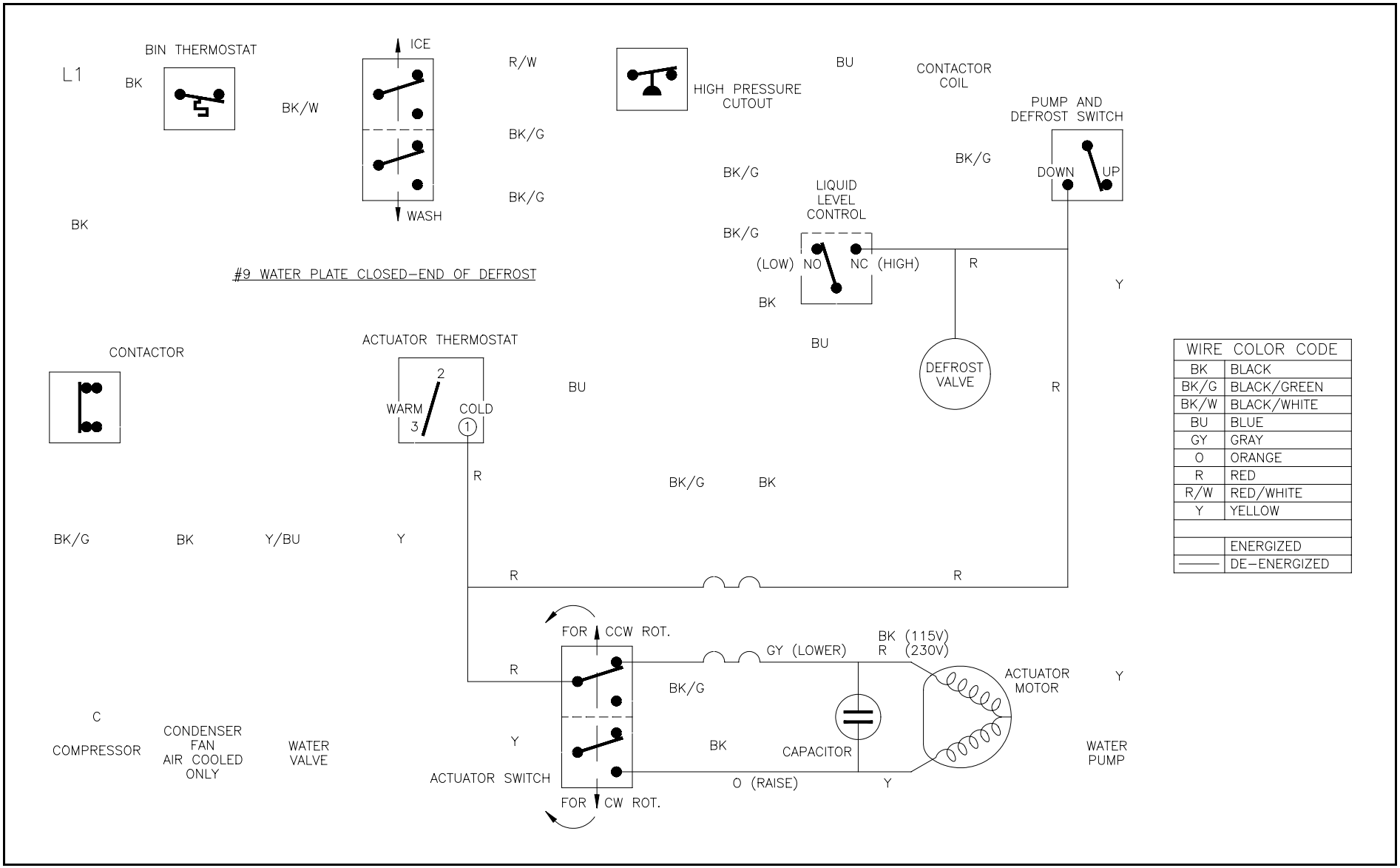
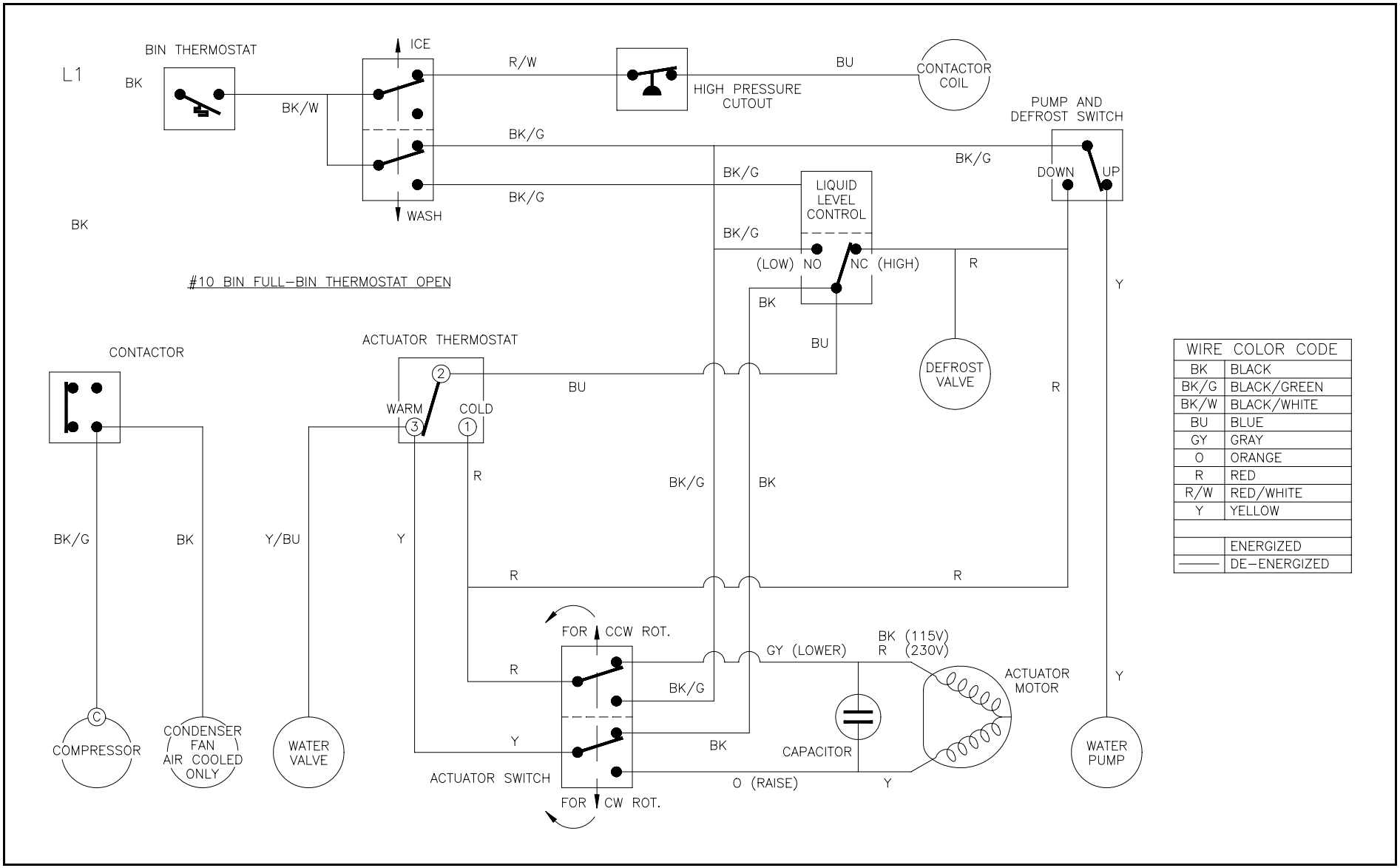


Diagram #9 End of Defrost- Water Plate Closed

Bin thermostat closed; Switch in “ice” position; Contactor closed; Water plate closed (pump & defrost switch up)

Liquid level control switch low. Actuator thermostat switch warm—power to water valve. <u>Actuator switch up—power off to actuator motor and defrost valve.</u> Pump and defrost switch up (water plate closed)—power to water pump.

SEQUENTIAL CIRCUIT DIAGRAM – GT350 MODELS



WIRE COLOR CODE	
BK	BLACK
BK/G	BLACK/GREEN
BK/W	BLACK/WHITE
BU	BLUE
GY	GRAY
O	ORANGE
R	RED
R/W	RED/WHITE
Y	YELLOW
	ENERGIZED
———	DE–ENERGIZED

Diagram #10 Bin Full- Bin Thermostat Open

Bin thermostat open; Switch in “ice” position; Contactor open; Water plate closed or open

Bin thermostat opens when ice contacts bulb tube—no power to components.

SEQUENTIAL CIRCUIT DIAGRAM – GT350 MODELS

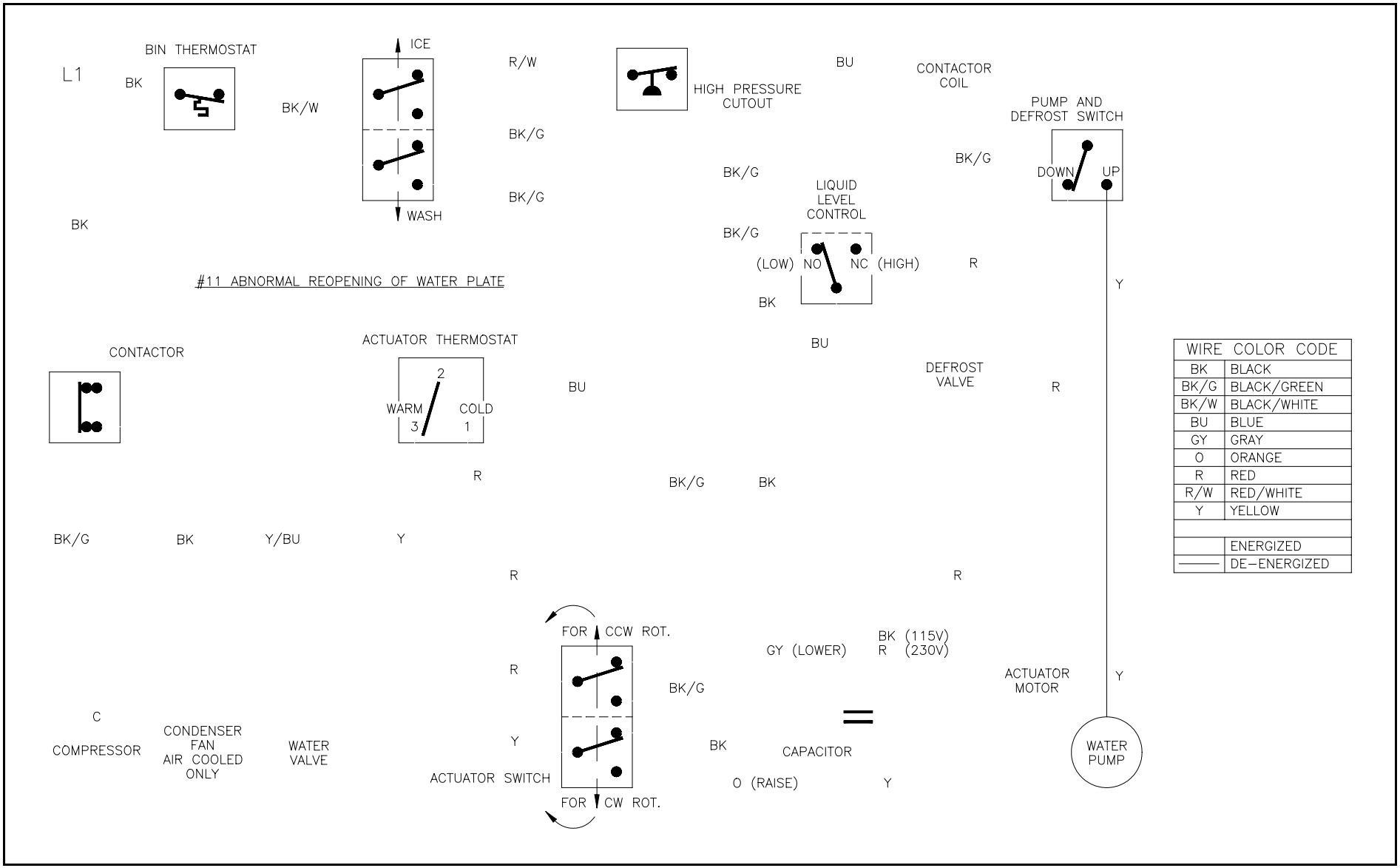
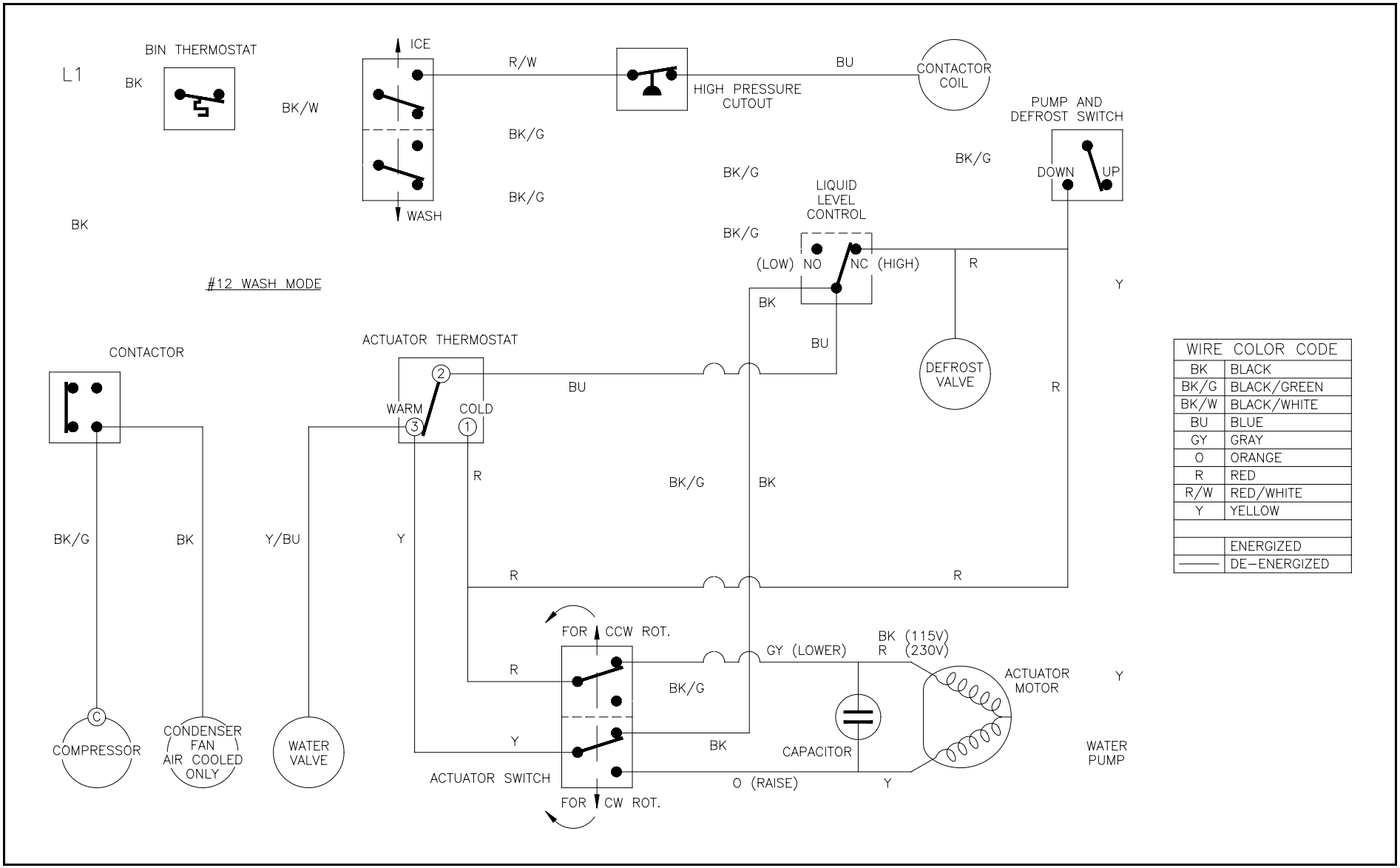


Diagram #11 Abnormal Opening of Water Plate

Bin thermostat closed; Switch in “ice” position; Contactor closed; Water plate cannot close (pump & defrost switch down)

Liquid level control switch low. Actuator thermostat switch warm—power to water valve. Actuator switch is pushed up—but power is maintained to actuator motor by pump and defrost switch. Pump and defrost switch cannot be pushed up (water plate obstructed)—red circuit remains energized and water plate re-opens—power to defrost valve, no power to water pump.

SEQUENTIAL CIRCUIT DIAGRAM – GT350 MODELS



WIRE	COLOR CODE
BK	BLACK
BK/G	BLACK/GREEN
BK/W	BLACK/WHITE
BU	BLUE
GY	GRAY
O	ORANGE
R	RED
R/W	RED/WHITE
Y	YELLOW
	ENERGIZED
———	DE–ENERGIZED

Diagram #12 Wash Mode

Bin thermostat closed; Switch in “wash” position; Contactor open; Water plate closed (pump & defrost switch up)

Liquid level control switch high. Actuator thermostat switch warm—power to water valve. Actuator switch up—power off to actuator motor. Pump and defrost switch up (water plate closed)—power to water pump, no power to defrost valve. If liquid level control switch low, power to water valve.